



WASHINGTON MILITARY DEPARTMENT

2021-2023 CAPITAL BUDGET

"Safe, Secure, Ready, and Resilient Washington State"



STATE OF WASHINGTON
MILITARY DEPARTMENT
Camp Murray • Tacoma, Washington 98430-5000

September 14, 2020

TO: David Schumacher, Director
Office of Financial Management

FROM: Bret Daugherty, Major General
The Adjutant General

A handwritten signature in dark ink, reading "Bret D. Daugherty".

SUBJECT: Military Department 2021-23 Capital Budget

I am pleased to submit the Washington Military Department's 2021-23 Capital Budget request.

The Military Department is responsible for building and maintaining more than 450 state-owned, federally licensed, and/or commercially leased facilities in 34 communities throughout the state. These facilities include National Guard readiness centers, field maintenance shops, and training facilities; office space for state and federal Military Department employees; recruitment stations for the Washington Army National Guard and Washington Air National Guard; and classrooms and residential support facilities for the cadets and faculty at the Washington Youth Academy. Our capital projects focus on three priorities:

1. Updating facilities to meet life safety requirements, building code requirements, and the Americans with Disabilities Act. Many of our facilities are 50-100 years old and were designed for an all-male National Guard; renovations include adding restrooms and showers for female service members, adding elevators, lifts or ramps, and repairing failing floors, walls, and ceilings. In some cases, buildings are in such a state of disrepair that the occupants of those facilities have fallen through floors. These urgent matters must be addressed for the facilities to be useable.
2. Planning for the long-term replacement of facilities at the end of their useful life, maximizing the availability of federal funding for major military construction (MILCON) projects. Washington State competed for, and successfully achieved, federal funding for the replacement of several National Guard armories and readiness centers. This budget submission requests the state share of those costs.
3. Proactively addressing the anticipated increasing demand for academic and life-intervention support for high school students by planning for a second Washington Youth Academy (WYA) campus in Eastern Washington, collocated with the Richland Readiness Center. As the COVID pandemic continues to disproportionately impact low-income and rural families, the WYA provides a lifeline for students who might otherwise drop out of school and instead gives them a pathway back to a successful future.

We look forward to your review of our Capital Budget request and the opportunity to respond to any questions from your staff. Please feel free to contact our Chief Financial Officer, Regan Hesse, at 253-512-8115, or our Deputy Finance Director, TJ Rajceвич, at 253-512-7596 with any questions you may have.

245 - Military Department
Ten Year Capital Plan by Priority
2021-2023 Biennium

[illegible]

245 - Military Department
Ten Year Capital Plan by Priority
2021-2023 Biennium

[illegible]

245 - Military Department Ten Year Capital Plan by Priority

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**245 - Military Department
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[illegible]

**245 - Military Department
Ten Year Capital Plan by Priority
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[illegible]



Allyson Brooks Ph.D., Director
State Historic Preservation Officer

August 11, 2020

Susan Vezeau
Environmental Program Manager
Construction & Facilities Management Office (CFMO)
Washington Military Department
Bldg 36 Quartermaster Road
Camp Murray, WA 98430-5050

In future correspondence please refer to:

Project Tracking Code: 2020-08-05114

Re: Washington Military Department's FY21-23 Biennium Budget Request for Review in Compliance with OFM and GEO 05-05/Section 106 Requirements

Dear Susan Vezeau:

Thank you for contacting the Washington State Department of Archaeology and Historic Preservation (DAHP). The above referenced project has been reviewed on behalf of the State Historic Preservation Officer (SHPO) under provisions of Governor's Executive Order 05-05 (05-05). Our review is based upon documentation contained in your communication.

We have reviewed the list provided for the above-referenced projects and have no further comments at this time. Projects that are funded through federal agencies or require permitting from a federal agency will be exempt from further review under 05-05, as Section 106 of the National Historic Preservation Act of 1966 and its implementing regulations 36 CFR 800 subsume this responsibility for protecting historic properties. Should a project have no federal nexus, but require review under 05-05, consultation with our office may be initiated with the following:

- Ground disturbing activities: EZ-1 form
- Building/Structure alterations (45 years or older): EZ-2 form

These comments are based on the information available at the time of this review and on behalf of the State Historic Preservation Officer (SHPO) in conformance with 05-05 and Section 106. Also, we appreciate receiving copies of any correspondence or comments from concerned tribes and other parties that you receive as you consult under the requirements of 05-05 and 36 CFR 800.4(a)(4). Should additional information become available, our assessment may be revised.

Thank you for the opportunity to review and comment. Please ensure that the DAHP Project Number (a.k.a. Project Tracking Code) is shared with any hired cultural resource consultants and is attached to any communications or submitted reports. If you have any questions, please feel free to contact me.

Sincerely,

Holly Borth



Project Compliance Reviewer
(360) 586-3533
holly.borth@dahp.wa.gov





WASHINGTON MILITARY DEPARTMENT
CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE
CAMP MURRAY, WA 98430-5000

August 7, 2020

Allyson Brooks, Ph.D.
Director, Department of Archaeology and Historic Preservation
1110 Capitol Way S, Suite 30
Olympia WA 98501
106@dahp.wa.gov
0505@dahp.wa.gov

Subject: Washington Military Department's FY21-23 Biennium Budget Request for Review in Compliance with OFM and GEO 05-05/Section 106 Requirements

Dear Dr. Brooks,

This letter is to request for your review of the State of Washington Military Department's (WMD) FY21-23 Biennium budget request for compliance with GEO 05-05/Section 106 and Office of Financial Management (OFM) requirements.

WMD's 10-year Capital Projects for FY21-23:

Update on Projects Under Construction:

Construction of the Tumwater Readiness Center (Log No. 051315-02-BPA) is anticipated for completion the spring of 2021. Archaeological surveys and cultural resources consults were completed as part of the 2017 Environmental Assessment for this project. Completion of the Tumwater Readiness Center will allow the reallocation of units in smaller regional Readiness Centers and will trigger the need to divest of these properties, including the NRHP-eligible Puyallup and Olympia armories. As part of the Olympia and Puyallup divestiture process, the WMD has initiated consults with your office and other community stakeholders and has procured an Historic Structures Report to inform on the condition of the Olympia Armory.

Richland Readiness Center (2017-08-06164-MIL) construction will be initiated in the fall of 2020. Consults and archaeological surveys for this project have long been completed, and an inadvertent discovery protocol is in place.

The Centralia Readiness Center Tenant Improvement Project (Log No. 2018-01-00031), listed in the last biennium will be completed in late 2020/early 2021. WMD has been in communication with your office regarding existing archaeological resources and effects on

the NRHP-eligible armory. A Memorandum of Agreement was signed by all parties to mitigate the adverse effects of window replacement at the armory.

New Construction and Design Projects:

The Washington Army National Guard Tactical Unmanned Aircraft System (TUAS) (Log No. 111511-08-MIL) on Yakima Training Center is a large federal Military Construction Project slated for design in 2022 and construction in 2023. In planning since 2013, both archaeological surveys and cultural resources consults were completed in 2012. An inadvertent discovery protocol is in place and cultural resources consults will be updated prior to project implementation.

Archaeological surveys and cultural resource identification efforts have also been completed for a prospective land purchase to construct a future King County Readiness Center near North Bend. No cultural resources were identified in the survey and consultation process. If the land purchase is executed, design is slated to begin in the 2023-2025 biennium.

Design will also be initiated in the 21-23 biennium for several additional large Military Construction projects. These include the Yakima Training Center Dining Facility project, for which cultural resources identification was undertaken prior to construction of the associated Barracks; the Joint Force Headquarters Facility on Camp Murray, for which cultural resources identification was undertaken prior to construction of the adjacent Pierce County Readiness Center; and the Washington Air National Guard Air Support Operations Group (ASOG) Complex and Mission Support Group/Logistics/Communications Facility on Camp Murray, for which cultural resources survey and consults were completed as part of the NEPA Environmental Assessment dated August 2019.

Proposed 21-23 projects affecting NRHP-eligible buildings include design for the Walla Walla Readiness Center Tenant Improvements, design and construction of the Anacortes Readiness Center Addition/Alteration Project, and design and construction of the Snohomish Readiness Center Tenant Improvements (Project No. 2020-03-02322). The Anacortes RC Addition/Alteration includes ground disturbance to add square footage, as the current structure is too small for current use. The Walla Walla RC Tenant Improvements and ADA Compliance will primarily involve interior modifications and updates to bring the facility in line with force protection requirements. Both projects were planned, but not initiated, in FY19-21. The Snohomish Readiness Center TI project will entail the construction of a roughly 6,000 square foot addition.

Proposed projects for buildings over 50 years old, but not NRHP eligible, include replacement of Barracks buildings 47, 48 and 65 on Camp Murray and the Port Orchard Readiness Center Tenant Improvements. The proposed Barracks replacement will involve ground disturbance on the existing site to build foundations for the new buildings. The Port Orchard Tenant

Improvements will involve reconfiguration of the building interior to have a more functional layout, but no ground disturbance is anticipated.

Additional capital projects with ground disturbance, proposed for the 21-23 biennium, include an expansion of non-organizational parking on Joint Base Lewis-McChord (JBLM) in front of the National Guard Aviation Readiness Center; expansion of the CSMS paint booth on JBLM; construction of a UTES Vehicle Storage Building on JBLM; construction of a MATES Vehicle Storage Building on the Yakima Training Center (YTC); and an addition to the Sedro-Wooley Field Maintenance Shop (FMS). Additionally, design will be initiated for an addition to the Ephrata FMS facility. Except for the JBLM parking expansion project, all projects are on installations previously surveyed for archaeological resources, with no cultural resources identified in the project areas. Consults for these projects will be initiated prior to implementation. An archaeological survey for the JBLM parking expansion will be conducted prior to project implementation.

Projects for the design and construction of Stryker Canopies at the Kent and Bremerton Readiness Centers, as well as the Montesano FMS Addition, were proposed in the 19-21 biennium but re-appropriated to the 21-23 biennium. The Montesano FMS Addition will involve ground disturbance to create additional space for the overhead requirement to service larger size vehicles. The Stryker canopies in Kent and Bremerton will include ground disturbance to install posts supporting a roof under which the Stryker vehicles will be housed. Bremerton and Montesano were surveyed in a 2019 archaeological study. No cultural resources were found at the Montesano site. While cultural resources were found at Bremerton, they are in the undeveloped portion of the property, well away from the proposed Stryker Canopy construction. An archaeological survey for the WMD's Kent installation is planned for 2021.

Projects on this list without ground disturbance or impacts to a building over 50 years old include the Camp Murray Building 20 Roof Top Unit (RTU), the Camp Murray Building 34 Tenant Improvements, the Moses Lake Readiness Center Tenant Improvements, and the Kent Readiness Center Tenant Improvements. Unless the scopes of these projects change, cultural resources consultation will not be initiated.

Please refer to the enclosed document, WMD's FY21-23 Biennium Capital Works Projects List, for a full list of proposed major works projects for the biennium 2021-2023

WMD's Minor Works List Projects

Under the Minor Works List, there are two groups of projects:

- (1) Preservation – These projects maintain and preserve existing state facilities and assets and do not significantly change the program use of a facility.

- (2) Program – These projects achieve a program goal such as changing or improving an existing space to new program requirements, or creating a new facility or asset through construction, lease and/or purchase.

Proposed capital minor works program and preservation projects involving either work on historic structures or ground disturbance are listed below.

Program projects involving NRHP-eligible structures:

1. Camp Murray Beach - Dock and Boat Launch Ramp Replacement
2. Camp Murray Parade Field improvements
3. Camp Murray Building 23 Lighting Improvements
4. Anacortes RC Emergency Generator
5. Centralia Readiness Center Generator
6. Snohomish Readiness Center Lighting Replacement
7. Snohomish Readiness Center Energy Management Control System (EMCS) Upgrades

Preservation projects involving NRHP-eligible structures:

1. Design for Murray Creek/Building 1 flood prevention and building preservation
2. Snohomish RC Doors and Windows Replacement
3. Snohomish Recruiting Office Sustainment
4. Walla Walla Readiness Center HVAC System Replacement
5. Walla Walla Readiness Center Building Envelope Repair
6. Murray Creek Flood Prevention and Building Foundation Preservation predesign study

The Camp Murray Parade Field improvements was previously included in the WMD 2017-2019 biennium supplemental minor works letter dated April 3, 2018 and the WMD 2019-2021 biennium consult dated August 28th, 2018. These improvements include adding permanent bleachers for the events which take place on the field, and a lighted pathway.

In 2018, consultation was initiated for a Snohomish RC Exterior Insulation and Finishing System (EIFS) & Window Replacement project (2018-01-00030-MIL) from the FY19-21 consult list. This project is no longer planned for execution. The proposed Snohomish RC lighting, EMCS, and doors and window replacements are new projects for the NRHP-eligible building to increase energy efficiency and move the agency closer to meeting EO 12-06, 13693 (2.5% energy reduction) goals, as well as meet local ordinance and state energy reduction mandates.

The Walla Walla Readiness Center building envelope project will repair water damage from outside water infiltration near the front door area of the facility by replacing bricks and grouting/sealant. The Walla Walla RC HVAC project will replace all major components such as air handling units, dampers, valves, boilers, piping, expansion tanks, condensing units and all other air duct work for a complete and efficient system.

Demolitions at Centralia, Redmond, and Snohomish installations (Centralia Building 3, Redmond Building 53, Snohomish Buildings 3 and 4) are slated for buildings that are not NRHP-eligible. However, due to other historic resources on these installations, consultation with DAHP will occur in this context.

Please note that the Seattle Readiness Center, with projects on both the program and preservation minor works lists, is currently not an historic resource; however, it will turn 50 years old in 2023. An NRHP-eligible evaluation will be conducted in 2021/2022. If determined NRHP-eligible, consultation for both the program and preservation projects at the Seattle Readiness Center will be undertaken under these contexts.

Program projects involving ground disturbance:

1. Camp Murray Beach - Dock and Boat Launch Ramp Replacement
2. Bremerton WYA Outdoor Fitness Equipment
3. Camp Murray Boat Washing Station
4. Camp Murray Emergency Vehicle Storage Building (CST)
5. Longview Organizational (MOV) Unpaved Parking
6. Seattle/Pier 91 POV Parking Lot Paving and Main Gate Modernization
7. Seattle/Pier 91 Readiness Center Modernization
8. Moses Lake RC Emergency Generator
9. Anacortes RC Emergency Generator (Log # 2017-12-090045-MIL)
10. Camp Murray Overhead Electrical Lines Conversion (Phase I and II)
11. Camp Murray Building 32 Generator Replacement (Log # 2018-07-04909-MIL)
12. Spokane RC IT Upgrade
13. Camp Murray South Gate and Road Modification (Log # 2018-08-06104-MIL)
14. Camp Murray Parade Field improvements
15. Camp Murray PCRC Cannon Pad
16. Buckley RC Exterior Lighting Upgrade
17. YTC MATES & Bldg 870 Emergency Generators
18. Grandview RC Emergency Generator
19. Snohomish RC Lighting Replacement
20. Demolition of Centralia Building 3 (Log # 2020-02-01319)
21. Demolition of Redmond Building 53 (Log # 2020-02-01321)
22. Demolitions of Snohomish Buildings 3 and 4
23. Montesano FMS Gate Upgrade

- 24. Camp Murray Building 20 Foot Bridge Replacement
- 25. Seattle/Pier 91 RC Lighting Upgrade
- 26. Seattle/Pier 91 FMS Lighting Upgrade

Preservation project involving ground disturbance:

- 1. Camp Murray USPFO Asphalt Repair
- 2. JBLM 9608 "UTES" Parking Lot Resurfacing (Log# 2018-07-04909-MIL)
- 3. Seattle/Pier 91 FMS Parking Lot Re-graveling
- 4. Seattle/Pier 91 FMS Road Improvements

Determinations

Archaeological surveys conducted in 2005 and 2019 under Section 110 and for specific project evaluations cover roughly 50% of WMD installations. Additional surveys of the Buckley Readiness Center, Centralia Armory, Ephrata Armory, Kent Readiness Center, Longview Armory, Seattle Pier 91, Spokane Readiness Center, and Yakima Readiness Center are planned for 2021. In total these will cover all proposed 21-23 biennium projects.

Identification efforts for all ground disturbing properties will include contacting affected tribal governments, referencing existing studies, and performing additional project specific surveys or implementing monitoring protocols for areas at risk of inadvertent discovery. The only project on the 10-year Capital Plan and Minor works list that is known to be in an area at high risk for belowground cultural resources is the demolition of Centralia Building 3. Archaeological monitoring is planned throughout the ground disturbing portion of this project.

Our initial determination is that the 10-year Capital Plan includes two projects with potential adverse effects on NRHP-eligible buildings: the Snohomish Armory Tenant Improvements project and the Anacortes Addition/Alteration. The scope of both projects is to construct an ~6000 square foot addition on the existing armory. In doing so, the WMD recognizes that these projects may alter the historic look and feel of the buildings. Similarly, the replacement of the Snohomish Armory Doors and Windows project, on the Minor Works list, will potentially result in an adverse impact because of the removal of character-defining windows in order to align with force protection and energy efficiency requirements. The agency will work with DAHP during design and planning of these three projects to avoid, minimize, or mitigate any potential impacts these projects may have on the historic integrity of the Snohomish and Anacortes Armories.

Other projects on the Capital Plan and Minor Works list that affect NRHP-eligible structures are unlikely to have an adverse impact on historic properties. These include projects to

upgrade lighting, replace structures in kind, or alter the interior of historic buildings in line with the Secretary of the Interior's Standards for Rehabilitation.

We recognize that further review may be needed as project scopes are refined and updated. At that time, our Cultural Resources Program Manager, Elizabeth Murphy, will seek another determination of the adverse/no adverse effects for each project. When additional details about these projects with ground disturbance and/or affecting NRHP-eligible structures become available, the WMD will initiate consultation with the State Historic Preservation Officer and affected tribal governments to seek a determination of adverse/no adverse effects in accordance with our Integrated Cultural Resources Management Plan (ICRMP) prior to implementation of these projects. Projects on the attached biennium list not mentioned in this letter will not impact historic structures nor will they involve any ground disturbance.

We request your initial review of the WMD's Biennium Capital Works Projects for FY21-23 and welcome any recommendations or guidance that you may have to ensure compliance with GEO 05-05 and/or Section 106 requirements. *We would greatly appreciate receiving an official response from your agency within the next 30 days.* Should you have any questions or concerns, please do not hesitate to contact the undersigned at (253) 512-8466 or by e-mail at susan.vezeau@mil.wa.gov.

Sincerely,

S Vezeau

Susan Vezeau, Ph.D.
Environmental Programs Branch Chief

Enclosures: WMD's FY21-23 Biennium Capital Plan and the Minor Works Projects Lists
(Preservation and Program Plans)



WASHINGTON MILITARY DEPARTMENT
CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE
CAMP MURRAY, WA 98430-5000

August 7, 2020

Craig A. Bill, Director
Governor's Office of Indian Affairs
General Administration Building
1110 Capitol Way S, Suite 225
Olympia, WA 98501
craig.bill@goia.wa.gov

Subject: Washington Military Department's FY21-23 Biennium Budget Request for Review in Compliance with OFM and GEO 05-05/Section 106 Requirements

Dear Mr. Bill,

This letter is to request for your review of the State of Washington Military Department's (WMD) FY21-23 Biennium budget request for compliance with GEO 05-05/Section 106 and Office of Financial Management (OFM) requirements.

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Archaeological surveys conducted in 2005 and 2019 under Section 110 and for specific project evaluations cover roughly 50% of WMD installations. Additional surveys of the Buckley Readiness Center, Centralia Armory, Ephrata Armory, Kent Readiness Center, Longview Armory, Seattle Pier 91, Spokane Readiness Center, and Yakima Readiness Center are planned for 2021. In total these will cover all proposed 21-23 biennium projects.

Identification efforts for all ground disturbing properties will include contacting affected tribal governments, referencing existing studies, and performing additional project specific surveys or implementing monitoring protocols for areas at risk of inadvertent discovery. The only project on the 10-year Capital Plan and Minor works list that is known to be in an area at high risk for belowground cultural resources is the demolition of Centralia Building 3. Archaeological monitoring is planned throughout the ground disturbing portion of this project.

Our initial determination is that the 10-year Capital Plan includes two projects with potential adverse effects on NRHP-eligible buildings: the Snohomish Armory Tenant Improvements project and the Anacortes Addition/Alteration. The scope of both projects is to construct an ~6000 square foot addition on the existing armory. In doing so, the WMD recognizes that these projects may alter the historic look and feel of the buildings. Similarly, the replacement of the Snohomish Armory Doors and Windows project, on the Minor Works list, will potentially result in an adverse impact because of the removal of character-defining windows in order to align with force protection and energy efficiency requirements. The agency will work with DAHP during design and planning of these three projects to avoid, minimize, or mitigate any potential impacts these projects may have on the historic integrity of the Snohomish and Anacortes Armories.

Other projects on the Capital Plan and Minor Works list that affect NRHP-eligible structures are unlikely to have an adverse impact on historic properties. These include projects to

upgrade lighting, replace structures in kind, or alter the interior of historic buildings in line with the Secretary of the Interior's Standards for Rehabilitation.

We recognize that further review may be needed as project scopes are refined and updated. At that time, our Cultural Resources Program Manager, Elizabeth Murphy, will seek another determination of the adverse/no adverse effects for each project. When additional details about these projects with ground disturbance and/or affecting NRHP-eligible structures become available, the WMD will initiate consultation with the State Historic Preservation Officer and affected tribal governments to seek a determination of adverse/no adverse effects in accordance with our Integrated Cultural Resources Management Plan (ICRMP) prior to implementation of these projects. Projects on the attached biennium list not mentioned in this letter will not impact historic structures nor will they involve any ground disturbance.

We request your initial review of the WMD's Biennium Capital Works Projects for FY21-23 and welcome any recommendations or guidance that you may have to ensure compliance with GEO 05-05 and/or Section 106 requirements. *We would greatly appreciate receiving an official response from your agency within the next 30 days.* Should you have any questions or concerns, please do not hesitate to contact the undersigned at (253) 512-8466 or by e-mail at susan.vezeau@mil.wa.gov.

Sincerely,

S Vezeau

Susan Vezeau, Ph.D.
Environmental Programs Branch Chief

Enclosures: WMD's FY21-23 Biennium Capital Plan and the Minor Works Projects Lists
(Preservation and Program Plans)

245 - Military Department Capital FTE Summary

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS004

Date Run: 9/14/2020 11:20AM

FTEs by Job Classification

<u>Job Class</u>	<u>Authorized Budget</u>		<u>2021-23 Biennium</u>	
	<u>2019-21 Biennium</u>			
	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>
Architect 2			1.0	1.0
Construction Project Coordinator 2			3.0	3.0
Construction Project Coordinator 3			1.0	1.0
Construction/Maintenance Project Lead			2.0	2.0
Construction/Maintenance Project Specialist			4.0	4.0
Construction/Maintenance Supervisor 3			1.0	1.0
Senior Project Manager			1.0	1.0
Total FTEs			13.0	13.0

Account

<u>Account - Expenditure Authority Type</u>	<u>Authorized Budget</u>		<u>2021-23 Biennium</u>	
	<u>2019-21 Biennium</u>			
	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>
001-2 General Fund-Federal			800,000	800,000
057-1 State Bldg Constr-State			265,000	265,000
Total Funding			1,065,000	1,065,000

Narrative

These FTEs support the capital budget.

Capital FTE Summary
2021-23 Biennium
*

Report Number: CBS004
Date Run: 9/14/2020 11:20AM

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget



WASHINGTON MILITARY DEPARTMENT
CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE
CAMP MURRAY, WA 98430-5000

NGWA-CFMO

02 September 2020

CFMO MAINTENANCE BACKLOG REDUCTION PLAN – 2021-2023

Overview

Washington Military Department (MIL) recognizes that its Washington Army National Guard (WAARNG) aging facilities and buildings, with an average age of 45 years, require more maintenance and repair with each passing year. MIL also recognizes that operational funding provided to the Construction & Facilities Management Office (CFMO) over the past three (3) biennia did not meet maintenance demand, resulting in increased deferred maintenance (maintenance backlog). With a 15 percent decrease for CFMO's operating funding possible for Biennium 21-23, any thought of retaining the current level of maintenance backlog, much less reducing it, is seemingly impossible.

Purpose

- A. A maintenance backlog reduction plan is developed to provide a means to evaluate and ultimately reduce the backlog of maintenance efforts that could not be accomplished during a given period; e.g., fiscal year.
- B. There are several objectives a maintenance backlog reduction plan strives to accomplish:
 - Promote the preservation of facilities and buildings,
 - Ensure preventative and/or corrective maintenance is not reduced during periods of decreasing resources,
 - Identify and prioritize maintenance efforts to make best use of resources,
 - Establish quality standards for maintenance appropriate for intended use of the facilities or buildings, and
 - Decrease maintenance backlog so capital renewal is not required to restore a facility to its service-delivery condition.

Mission and Goal

- A. The mission of the CFMO maintenance/operations program, managed by its State Maintenance & Support Services (SMSS) branch, is to ensure its facilities and buildings provide a safe and positive working environment for its occupants. This directly influences MIL's ability to minimize the impact of emergencies and disasters on people, property, environment, and the economy of Washington State and the region; provide trained and ready forces for state and federal missions; and provide structured alternative education opportunities for at-risk youth.
- B. A major goal of the maintenance/operations program is to increase its ability to accomplish its mission through greater efficiency and effectiveness, enhanced preventative maintenance management, and a reduction of its maintenance backlog.

Definitions

- Capital Projects – projects that are \$1,000,000 or more in estimated cost.
- Capital Renewal Planning – a continuous process, beginning with a preliminary plan covering several years and evolving into a final plan adjusted on an annual basis, defining overall goals for short-term needs for maintenance backlog and long-term needs for life-cycle renewal of facilities components.
- Facilities Condition Index (FCI) – a method of measuring the relative condition of a single facility or group of facilities. FCI is a ratio of the cost remedying maintenance backlog to the current replacement value.
- Federal/State Funding Split – CFMO funding is reimbursed by the federal government either partially or fully depending the nature of the effort and/or location of the effort. A 75/25 split means the cost is 75 percent federally reimbursed.
- In-House Projects – projects that are accomplished using existing CFMO labor.
- Maintenance Backlog (Deferred Maintenance) – corrective maintenance work that has been deferred on a planned or unplanned basis to a future budget cycle or postponed until funds are available.
- Minor Works Projects – projects that are under \$1,000,000 in estimated cost.
- Replacement Value – estimated cost of constructing a new facility containing an equal amount of space that is designed and equipped for the same use as the original building, meets the current commonly accepted standards of construction, and also complies with environmental and regulatory requirements.
- Work Orders – corrective maintenance efforts that are comprised of labor and material costs.

Background**A. Responsibilities**

1. CFMO provides the Washington Military Department with related support for over 450 state-owned, federally licensed, and/or commercially leased facilities in 34 communities throughout the state. Totalling over three (3) million gross square feet of floor space, these facilities reside on 1,000-plus acres of land. The facilities are used by the WAARNG, the Emergency Management Division, the Washington Youth Academy, and supporting state employee offices.
2. Engineering Branch within CFMO manages all related projects ranging from major, capital construction of a new readiness center to minor works projects such as partial re-roofing. The Engineering Branch consists of a Construction Project Coordinator 4 serving as a branch chief, and one (1) Construction Project Coordinator 4 and two (2) Construction Project Coordinator 3s serving as primary project managers. At any one time, each project manager is responsible for at least two (2) capital projects and 10 minor works projects. Though the number of projects a single project manager can adequately manage is almost solely dependent on the number of hours per week each

project requires, CFMO feels that each project manager should have one (1) major capital project and five (5) minor works projects a comfortable workload.

3. State Maintenance & Support Services provides all maintenance efforts related to CFMO-responsible facilities/buildings. Maintenance efforts include, but are not limited to, preventative maintenance, corrective maintenance, and support efforts such as custodial, grounds, fire/safety inspection and repair management, other related inspection management, and pest management.
 - a. Maintenance and support locations are divided into four (4) regions:
 - (1) Camp Murray Region – Camp Murray, Joint Base Lewis-McChord, Buckley and Puyallup
 - (2) South Region – the area from Olympia to Longview, to include Bremerton and Port Orchard
 - (3) North Region – the area from Anacortes to Kent
 - (4) East Region – all facilities east of the Cascade Mountains (Yakima, Walla Walla, Spokane, etc.).
 - b. SMSS duties are the responsibility of 50 state full-time-equivalent (FTE) positions to include one (1) state-wide locksmith and 26 regionally assigned maintenance professionals who perform all assigned preventative and corrective maintenance and minor non-repair efforts.

Table 1 – SMSS Positions

Position Title	Area/Trade	FTEs
Manager (WMS2)	Administration	1.0
Administrative Assistant 3	Administration	1.0
Management Analyst 3	Support	1.0
Facility Services Coordinator	Support	1.0
Data Consultant 2	Support	1.0
Maintenance Specialist 4	Regional Supervisor	1.0
Building & Grounds Supervisor A	Custodial & Grounds	1.0
Maintenance Mechanic 4	Maintenance Supervisor	5.0
Maintenance Mechanic 3	Maintenance Generalist	5.0
Maintenance Mechanic 2	Maintenance Generalist	12.0
Maintenance Mechanic 1	Maintenance Generalist	3.0
HVAC Technician	HVAC	5.0
Electrician (Lead High-Voltage)	Electrical	1.0
Locksmith (Lead)	Locksmith	1.0
Custodian 2	Custodial	6.0
Grounds & Nursery Services Specialist 4	Grounds Supervisor	1.0
Grounds & Nursery Services Specialist 2	Grounds Worker	4.0

Tools

- A. MIL continues to update and refine its three (3) automated management systems: 1) a computerized maintenance management system (CMMS) for all maintenance efforts; 2) an energy management system for heating, ventilation, and air conditioning environment; and 3) a utilities management system to assess utility consumption and expenditures.
1. The computerized maintenance management system in current use by SMSS is WebWork, a commercial program that has been utilized for much of the past 20 years. SMSS has “outgrown” WebWork’s capabilities and is in the process of finding a more robust replacement with a goal to switch to the replacement CMSS by 31 December 2021. The new system is expected to provide increased communication with its customers and stakeholders, and greater reporting, which directly impacts federal funding.
 2. The energy management system (EMS) allows for electronic configuration, information, and troubleshooting for certain heating, ventilation, and air conditioning (HVAC) equipment. MIL is in the process of upgrading EMS to encompass HVAC systems state-wide. Currently, EMS is limited to a small number of buildings/facilities and is isolated by region. By having a complete EMS, on-premises troubleshooting requirements will be drastically reduced. This will save considerable time and expense for the HVAC crews as some are often working 50 or more miles from their home base.
 3. MIL uses the utilities management system (UMS) to obtain important data points regarding energy consumption and utility expenses. The former directly impacts efficiency efforts to minimize energy waste; e.g., related infrastructure repair and equipment replacement. Tracking utility expenses is vital in determining if a different utility is warranted at a facility or if a different energy application should be used, e.g., LED fixtures. The aggressive use of UMS gains efficiencies and savings in utility costs, consistently reducing MIL’s per-square-foot energy consumption since 1991 (by more than 50 percent). All energy-related repairs are routed through the energy manager for possible energy enhancements and/or savings.
- B. These systems are utilized to ultimately provide customers with a comfortable, safe, and functioning work environment, and to maximize available resources; e.g., time and funding.

Maintenance Backlog

- A. Maintenance backlog is corrective (only) maintenance work that is not included in the maintenance process because of a perceived lower priority status than those funded within available funding. CFMO divides its maintenance backlog into two (2) categories of unfunded maintenance:
1. The lack of which does not cause the facility to deteriorate further, and
 2. The lack of which does result in a progressive deterioration of the facility for the current function.

- B. Less frequent painting of interior walls would be an example of unfunded maintenance that normally does not cause a facility to deteriorate. Conversely, less frequent painting of building exterior trim may indeed contribute to building deterioration at some point. Roof repairs or replacement would be the most glaring example of unfunded maintenance that, if not addressed, inevitably leads to deterioration from leaks within the building.
- C. The cited definition of maintenance backlog could serve just as well for major maintenance (capital and minor works) and offers a temptation to bypass the use of annual operating budgets and fund major maintenance through a maintenance backlog reduction program. The difference is that a maintenance backlog reduction program is a comprehensive, one-time approach, often extended over several years, to control a massive backlog of maintenance work.
1. Major maintenance and maintenance backlog are expenditure programs designed to accommodate the deterioration process of facilities; both programs cope with facilities renewal. As a strategy to achieve funding to eliminate problems of facilities' deterioration, maintenance backlog reduction programs can be expanded to include life safety, code compliance requirements, and provisions for accessibility.
 2. In contrast, major maintenance is a planned activity of facilities renewal funded by an annual capital/minor works budget. Failure to perform needed repair, maintenance, and renewal as part of normal maintenance management, creates deferred maintenance and therefore a maintenance backlog.
 3. It is extremely important for all stakeholders to have a clear understanding and acceptance of the above definition of maintenance backlog.
- D. SMSS further classifies maintenance backlog into two (2) areas: 1) renewal and replacement projects (capital and minor works), and 2) in-house corrective maintenance efforts. Capital and minor works renewal and replacement is defined as a systematic management process to plan and budget for known cyclic repair/replacement requirements that extend the life and retain the useable condition of facilities and systems, and which are not normally contained in the annual maintenance operating budget.
- E. Facilities Condition Index
1. As of 01 July 2020, CFMO's statewide maintenance backlog is estimated at \$24,000,000. With an estimated replacement value of \$905,000,000 for all CFMO-responsible facilities/buildings, a Facilities Condition Index (FCI) of 0.027 is calculated. This can be translated as saying that as a collective group, 2.7 percent of each facility and building for which CFMO has responsibility is in need of repair.
 2. An FCI range of 0.027 is categorized as a "good" condition rating.

Table 2 – FCI Range versus Condition Rating

FCI Range	Condition Rating
Under 0.05	Good
Between 0.05 and 0.10	Fair
Over 0.10	Poor

- F. The CFMO in-house maintenance backlog, as of 30 June 2020, was 552 work orders statewide, a 48 percent increase over FY 2019. Estimates quantify this in-house maintenance backlog at 11,000 labor hours or \$385,000 in labor cost, and an estimated \$450,000 in material costs. Therefore, the cumulative maintenance backlog is estimated as \$835,000.
1. Due to continual inadequate funding, SMSS is currently almost exclusively repair-driven with only compliance/regulatory preventative maintenance receiving high attention.
 2. The overall CFMO maintenance backlog has increased significantly over the past five (5) years, available resources have remained relatively the same. Of particular note the lock-related work order backlog increased overall by 163 percent and Camp Murray Region work order backlog increased 104 percent since FY 2016. The South, North, and East Regions saw an overall reduction in their respective deferred maintenance.

Table 3 – SMSS Maintenance Work Order Backlog by Fiscal Year

Area \ FY	2016	2017	2018	2019	2020
Locksmith	64	84	124	119	168
Camp Murray	128	109	187	156	261
South	34	28	25	25	26
North	61	63	29	19	48
East	58	61	47	55	49
Total	345	345	412	374	552

Table 4 – SMSS Maintenance Work Order Backlog Variance by Fiscal Year

Area \ FY	16-17 △	17-18 △	18-19 △	19-20 △	16-20 △
Locksmith	+ 31%	+ 48%	- 4%	+ 41%	+ 163%
Camp Murray	- 15%	+ 72%	- 17%	+ 67%	+ 104%
South	- 17%	- 11%	0%	+ 4%	- 24%
North	+ 3%	- 54%	- 34%	+ 153%	- 21%
East	+ 5%	- 23%	+ 17%	- 11%	- 32%
Total	0%	+ 19%	- 9%	+ 48%	+ 60%

3. The lock-related backlog increase is primarily due to a dramatic rise in the necessity to replace worn-out lock devices with upgrades. Also, CFMO has only one (1) locksmith to service over 450 buildings statewide.
4. The 67 percent increase from FY 2019 in Camp Murray Region's work order backlog is due to the old age of buildings and systems, a continued demand for repairs caused by customer damage and cosmetic-related requests (moving whiteboards, unneeded painting, office remodels, etc.), and an internal push to self-identify all corrective maintenance needs.
5. The South, North, and East Regions have had a reduction of their respective work order backlogs over the past five (5) years, which is mainly due to their customers only requesting priority repair actions, understanding that maintenance is short-staffed with limited capacity and new replacement facilities are programmed. Self-identification of corrective maintenance needs by these regions is also limited to higher priority

requirements. It is clear that a standard for self-identification of maintenance needs is required.

6. Though it is recognized that COVID-19 did play a part in increasing maintenance backlog during the months of April and May 2020 as the majority of SMSS' workforce was teleworking or otherwise prevented from performing their maintenance/repair duties, it should be noted that current funding does not permit SMSS to reduce its increase.
7. During FY2020, the SMSS maintenance backlog increased 35.6 percent.

Table 5 – SMSS FY20 End-of-Month Work Order Carry-over

Mo-Yr	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
Carry-over	407	412	419	438	451	438	464	476	472	514	564	552
Variance	+8.8%	+1.2%	+1.7%	+4.5%	+3.0%	-3.0%	+5.9%	+2.6%	-0.8%	+8.9%	+9.7%	-2.1%

8. A 2010 commissioned benchmark study for operations and maintenance by the International Facility Management Association (IFMA), provides suggested square footage minimums for all maintenance/repair trades (electricians, HVAC, plumbing, generalists, etc.) with an overall average of just under 40,000 gross square feet per FTE position. On average, each SMSS trade personnel is responsible for nearly 117,000 gross square feet, or almost three (3) times the IFMA-advocated square footage.

Table 6 – FTEs: IFMA Recommended versus SMSS Actual

FTEs	Total	Plumbers	Electricians	Controls/ low voltage	HVAC	Carpenters	Generalists	Locksmith	Painters
Recommended	89.3	7.2	16.4	5.8	12.4	7.1	28.2	3.3	8.8
Actual	27.0	0.0	1.0	0.0	5.0	0.0	20.0	1.0	0.0
Variance	- 62.3	- 7.2	- 15.4	- 5.8	- 7.4	- 7.1	- 8.2	- 2.3	- 8.8

9. CFMO's ability to provide adequate maintenance and repair care to its facilities and buildings is severely hampered by a lack of state-match funding to bring the recommended number of SMSS trade positions to 89 FTEs. In other words, SMSS' trades workforce is one-third (1/3) of the recommended strength to properly maintain the MIL infrastructure.
10. The default federal reimbursement split for SMSS trade positions is 65/35. With the anticipated 15 percent state operating funds reduction for the 21-23 biennium, the number of state compensated trade FTEs within SMSS will need to be reduced by at least six (6), bringing down its work team to less than one-fourth (1/4) of the recommended standard. Corrective maintenance backlog will have to increase accordingly.

- G. The average age of MIL facilities is around 45 years; facility buildings range from 2 years in age to over 100 years. Buildings and their systems continue to reach their end-of-product life-cycle, needing replacement; e.g., roofs, HVAC systems, windows, and lighting. As new facility/building construction is restrained, the use of aging facilities/buildings increases. Occupants rightfully demand to be in a secure and operational facility/building free from infrastructure deficiencies.

Table 7 – SMSS State Budget by Fiscal Year

FY2016	FY2017	FY2018	FY2019	FY2020	FY2021*
\$ 2,066,581	\$ 1,958,650	\$ 2,078,245	\$ 2,111,330	\$ 2,157,125	\$ 2,203,306
% Variance	- 5.2%	+ 6.1%	+ 1.6%	+ 2.2%	+ 2.1%

* Does not include a potential 15% reduction

1. CFMO's SMSS operating budget has not had an influx of funding over the past five (5) fiscal years with a modicum of increase to offset union-bargained wage increases. For fiscal years 2019, 2020, and 2021, a utility budget of \$876,000 was established with the remainder available for SMSS state-share personnel compensation and operating expenses.
 2. SMSS continues to be diligent in being more efficient in terms of work processes, scrutinizing maintenance/repair requests, prioritizing needs, cancelling unnecessary or frivolous requests, and using more technological resources. Funding is the only limiting factor for SMSS to reduce the maintenance/repair backlog. Lack of adequate state funding to perform maintenance and repair severely hampers CFMO's ability to lessen its overall repair backlog, thereby pushing those repairs into the capital/minor works category.
- H. For the 21-23 Biennium, capital/minor works funding will be the only means by which to slow the increase of SMSS' in-house maintenance backlog.

2021 – 2023 Biennium Emphasis

- A. CFMO continues its emphasis for the upcoming biennium in three (3) areas:
1. Establish and keep current a complete criteria-based maintenance backlog for all facilities,
 2. Increase preventative maintenance and work order management to ensure preventative maintenance is completed, and
 3. Define and fund a backlog reduction budget.
- B. A maintenance backlog is only as good as its data-collection standards and subsequently acquired data. The National Guard Bureau (NGB) has implemented the Builder Sustainment Management System, a web-based software application to help civil engineers, technicians and managers decide when, where, and how to best maintain facility infrastructure.
1. Builder data collection began at Camp Murray in FY2018 and completed the other regions during FY2019. Builder is designed to establish a CFMO facility/building

baseline condition assessment and is purported to be the main capital/minor works funding needs tool for NGB.

2. From a state maintenance perspective, there is one minor drawback of Builder: it only assesses buildings that have a federal presence; 100 percent state occupied buildings are not assessed. This leaves about 2.5 percent of facilities/buildings for which CFMO has responsibility off the Builder data base. Currently, it is unknown if 100 percent state building assessments can be added to Builder, or would require a separate database.
- C. During the course of FY2020, CFMO's SMSS maintenance staff completed an average of 75 percent of minimal, "must-do" preventative maintenance efforts. The full preventative maintenance effort completion rate is approximately 50 percent for the same period.
1. The well-known adage of "an ounce of prevention is worth a pound of cure" is particularly true in the maintenance world. The current industry estimate is \$1.00 of preventative maintenance equals \$4.00 of future repairs and/or replacement costs. This is a significant ratio and one that should not be ignored. A properly scheduled preventative maintenance program can significantly lower the incidence of failures, reduce expenses for unnecessary repair parts, and allow more time for other tasks.
 2. It should be noted that because of COVID-19 precautions, 90 percent of the SMSS workforce was teleworking during the months of March-May 2020. Essentially no preventative or corrective maintenance occurred during that time.
- D. Preventative maintenance and end-cycle replacements are key to reducing repair/replacement costs. CFMO is aggressively looking into measures to increase preventative maintenance completion and gain customer understanding of why their non-corrective requests may not be immediately addressed.
- E. Capital and minor-works project demands have consistently overshadowed available project budgets. As funding is available, CFMO uses capital/minor works funding to eliminate many high-maintenance efforts such as roof repair/replacement, window replacements for energy-efficiency and reduced corrective maintenance, exterior masonry repairs/re-sealing, storm water improvements, kitchen and restroom upgrades, electrical system modernization, pavement repairs/re-sealing, and HVAC systems. CFMO's Engineering Branch works closely with SMSS to ensure as much maintenance backlog as possible is removed through capital and minor work projects.
- F. At this time, SMSS operational funding (federal or state) does not include separate funding for maintenance backlog reduction. Because of the close cooperation between the engineering and maintenance units, maintenance backlog efforts are de facto reduced through capital and minor works projects. It is the future intent of CFMO to set aside federal and state funding exclusively for maintenance backlog reduction.
- G. CFMO is resolved to strengthen its maintenance backlog reduction strategy. All deferred maintenance efforts are to be compiled and evaluated by region. Reduction should occur through stricter adherence to the process of each maintenance backlog request either:
1. Becoming a project (capital or minor works) or completed as a maintenance work order,

2. Remaining as deferred maintenance due to its mission critical nature, or
 3. Cancelled due to lack of priority or future regional readiness center plans.
- H. With a potential 15 percent operating budget reduction for the 21-23 biennium, CFMO cannot continue its effort to increase maintenance staff to meet personnel per gross-square-foot industry-standards.
1. In conjunction with an operating budget reduction and the continued threat of COVID-19, SMSS is re-evaluating its personnel needs and re-organizing its existing staff to meet those needs.
 - a. Examples include:
 - (1) Strengthening its custodial team to meet a high-demand for disinfection of work areas,
 - (2) Reducing supervisor FTEs to “save” maintenance mechanic FTEs, and
 - (3) Combining SMSS regions to provide adequate supervision.
 2. If federal funding permits, SMSS intends to hire the following 100 percent federally reimbursed staff:
 - a. Three (3) custodian 2s,
 - b. Three (3) Grounds & Nursery Services Specialist 2s, and
 - c. Three (3) Maintenance Mechanic 2s to assist with preventative maintenance efforts.
- I. MIL’s 19-21 Maintenance Operating Budget Decision Package is not requesting additional personnel and instead will focus on the potential 15 percent operating fund reduction.

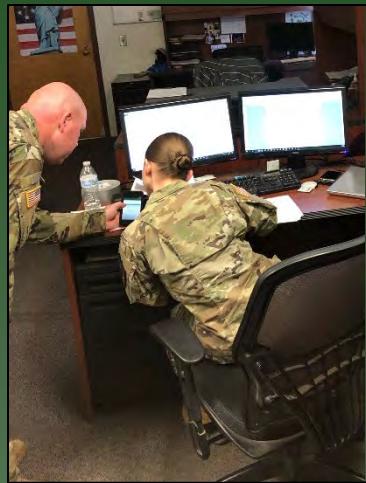
Priority of Action

- A. The priorities for preservation of facilities for the Washington Youth Academy are set by its leadership and is, for the most part, funded by their operating funds.
- B. Emergency Management Division facility preservation priorities are based on its infrastructure and associated life-cycle.
- C. Facilities/building preservation priorities for the WAARNG are based first and foremost on the changing means by which the Army National Guard completes its mission.
 1. Larger vehicles, high-technology systems, distance-learning opportunities, and vastly changing training requirements all drive the need to modify facilities. Funding that could go towards maintenance backlog reduction may be redirected to modification efforts.
 2. The basis of prioritization for facility maintenance hinges on the age of the facilities, the assessed condition of the facility, the economic feasibility of preservation versus

renovation versus replacement, and the mission and requirements of the MIL components.

Impact of Not Reducing Maintenance Backlog

- A. The Agency's remaining original facility inventory is getting older – over 45 years on average. Maintenance staff levels and budget constraints make it difficult to keep pace with the required maintenance for older facilities, especially as square footage increases. Any reduction in preservation funding would result in more rapid deterioration of MIL facilities and would exacerbate many system problems throughout its facility inventory. This, in turn, reduces the Agency's ability to properly conduct its core function of public safety.
- B. An increasing maintenance backlog leads to unsafe buildings and unreliable infrastructure, creating hazardous conditions to National Guard personnel, state and federal employees, and the community. Failing HVAC, electrical, and plumbing systems jeopardize the usability of spaces necessary for MIL activities. All these factors add up to liabilities not shown on a balance sheet.



WASHINGTON MILITARY DEPARTMENT

PRESERVATION PROJECTS

"Safe, Secure, Ready, and Resilient Washington State"

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:55PM

Project Number: 40000189

Project Title: Camp Murray Bldg. 20 Roof Top Unit Upgrade

Description

Starting Fiscal Year: 2022

Project Class: Preservation

Agency Priority: 3

Project Summary

This request is for the design and construction of a modified main roof-top unit that serves 80% of the heating, cooling, and ventilation (HVAC) needs of the two-story, earthquake-resistant building on Camp Murray, occupied by the Emergency Management Division and State Emergency Operations Center (SEOC). The modified system will improve air filtration, protecting employees in the SEOC from viruses, allergens, and other environmental factors. The upgrade will reduce operating costs by up to \$120,000 per year by using more efficient technology to create heating/cooling for the building. Operation of the existing unit generates more than 50 work orders per quarter, degrades occupant comfort, and alone accounts for 5% of the agency's annual utility budget.

Project Description**Background:**

The existing roof top unit (RTU) uses resistance heat, air-side economizers, and fans to heat or cool the building. It is currently controlled through a dial-up modem that is incapable of being networked. The existing filtration is substandard, reducing airborne pathogens and microbes by only ~30%. The single HVAC technician on-staff spends an inordinate amount of his work week addressing hot/cold complaints from occupants affected by this system. Operation of the existing unit generates more than 50 work orders per quarter, degrades occupant comfort, and alone accounts for 5% of the agency's annual utility budget. Upgrading the technology used to heat and cool the building is expected to save more than \$120,000 per year in electricity costs, which will help offset escalating utility rates. A modified system with a simple payback of ~10 years will increase occupant comfort, reduce health risks, and save more than 200 man-hours per year.

Project Overview:

The request for this biennium is for a pre-design study in state fiscal year (SFY) 2022 and design for SFY 2023. The construction funding will be requested for SFY 2024 in the FY23-25 biennial capital budget. The project will produce a significantly modernized system in line with the Governor's Executive Order (EO) 20-01 which will reduce consumption of electricity and manpower, both of which are in short supply. It will serve the staff of the Emergency Management Division and subsequent, affiliated divisions and outside agencies activated through the State Emergency Operation Center during state emergencies including the Army National Guard and Air National Guard.

The modified ultraviolet filtration system in combination with a MERV-9 filter will be able to filter more than 80% of friable pollutants. This provides greater protection from viruses, allergens, and other environmental factors that can make employees sick and slow or diminish employee productivity. Current backup systems in place at the State Emergency Operations Center can operate using the generators on site for no more than 10 days during an outage due to the enormous power demand of the existing HVAC unit. With the proposed upgrade, the existing generators could run for longer than 25 days. Additionally, by replacing a resistance heat unit with a heat pump ready unit with dedicated outside air (DOA) and advanced controls, it is possible to reduce electrical consumption due to heating, cooling, ventilation by more than 60%. The energy savings will offset the cost of the improvements within 8 years, and these improvements comply with the mandates set forth in EO 20-01 and the energy investment and savings act of (EISA) 2007.

Project Alternatives:

Alternatively, the maintenance office considered expanding the heating system and adding an additional split unit to the upper floor of the building. Though this would be less costly upfront, it would increase the life cycle cost of maintaining and replacing the systems every 20 years by another \$50,000. Moreover, the split unit may not provide adequate cooling, and certainly no additional filtration or ventilation. A variable refrigerant flow (VRF) system was also considered, but the cost of replacement refrigerant for this size required by the system is cost prohibitive.

Project Impacts:

This project will impact all tenants within building 20, to include the Emergency Management Divisions and associated departments and agencies operating out of the State Emergency Operations Center. This project will reduce long-term costs by replacing multiple aging systems with a modern and efficient system thereby reducing overall costs to the taxpayers.

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:55PM

Project Number: 40000189

Project Title: Camp Murray Bldg. 20 Roof Top Unit Upgrade

Description

The reduced cost of operation through a modified RTU will align with the Military Department's goal of reducing costs and saving energy while providing tenant health and comfort and increased productivity. These goals are in accordance with EO 20-01, EO 13963, and EISA 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient by using higher efficiency equipment and coordinated on-site power generation.

Project Funding:

Building 20 is 100% occupied by state employees. Therefore, funding for this project is 100% state with no federal match. The total cost of the project is \$1,500,000, with predesign at \$80,000, and design at \$233,000 being requested this biennium. Construction at \$1,187,000 will be requested in the next biennium.

CBS Form Questions:

I/T:

Though this building is funded at 100% state, controls will most likely be routed through a federal system managed by federal (or federally reimbursed) employees. At this point the technology details are unknown but will be provided next biennium during the "design" and "construction" phases of the project.

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

All new projects seek to comply with state and federal laws regarding energy efficiency. Building 20, which houses the Emergency Management Division and the State Emergency Operations Center, is one of the most energy-inefficient buildings on Camp Murray. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. An HVAC start-up report as well as commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

None, the project is within the existing facility for the same purpose.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,500,000				1,500,000
	Total	1,500,000	0	0	0	1,500,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:55PM

Project Number: 40000189

Project Title: Camp Murray Bldg. 20 Roof Top Unit Upgrade

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000189	40000189
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Washington Military Department
21-23 Minor Works Preservation

Priority	SubProject #	Location	Building #	Project Title	Federal 001 21-23 Preservation	State Bond 057 21-23 Preservation	MIL Capital 364 21-23 Preservation	Project Total
1	40000230	Seattle	RC	Seattle RC Sustainment Projects	\$ 490,000	\$ 490,000	\$ -	\$ 980,000
2	40000227	Seattle	FMS	Seattle FMS Organizational Parking Lot Repair & Resurfacing	\$ 180,000		\$ -	\$ 180,000
3	40000228	Seattle	FMS	Seattle FMS Road Repair & Resurfacing	\$ 250,000	\$ 250,000	\$ -	\$ 500,000
4	40000205	Bremerton	RC	Bremerton RC HVAC System Replacement	\$ 250,000	\$ 250,000	\$ -	\$ 500,000
5	40000045	Buckley	RC	Buckley RC HVAC System Replacement & Minor Renovation	\$ 391,000	\$ 391,000	\$ -	\$ 782,000
6	40000214	Camp Murray	Creek	Murray Creek - Flooding prevention and Building foundation preservation	\$ 350,000	\$ 350,000		\$ 700,000
7	40000214	Camp Murray	Creek	Technical Review: Murray Creek - Flooding prevention and Building foundation preservation	\$ 70,000	\$ 70,000		\$ 140,000
8	40000212	Camp Murray	34	CM 34 HVAC System Replacement	\$ 537,500	\$ 362,500	\$ -	\$ 900,000
9	40000063	Camp Murray	13	Re-roof lowslope and add insulation	\$ 200,000			\$ 200,000
10	40000238	YTC	870 and 872	YTC 870 and 872 HVAC System Replacement	\$ 487,500	\$ 112,500	\$ -	\$ 600,000
11	40000224	JBLM	9705 CSMS	JBLM CSMS Roof Repair	\$ 150,000	\$ -	\$ -	\$ 150,000
12	40000234	Walla Walla	RC	Walla Wall RC Building Envelope Repair & Resealing	\$ 35,000		\$ -	\$ 35,000

Washington Military Department
21-23 Minor Works Preservation

Priority	SubProject #	Location	Building #	Project Title	Federal 001 21-23 Preservation	State Bond 057 21-23 Preservation	MIL Capital 364 21-23 Preservation	Project Total
13	40000211	Camp Murray	32	CM 32 Parking Lot Repair & Resurfacing	\$ 50,000	\$ -	\$ -	\$ 50,000
14	40000208	Camp Murray	19	CM 19 HVAC System Replacement	\$ 290,000		\$ -	\$ 290,000
15	40000206	Camp Murray	8	CM 8 Roof Repair	\$ 75,000	\$ 75,000	\$ -	\$ 150,000
16	40000210	Camp Murray	32	CM 32 HVAC System Replacement	\$ 955,000	\$ -	\$ -	\$ 955,000
17	40000215	Ephrata	RC & FMS	Bldg 1 & 3 HVAC System Replacement	\$ 300,000	\$ 100,000	\$ -	\$ 400,000
18	40000220	JBLM	3106 AVN RC	JBLM 3106 Hangar Door Repair	\$ 610,000		\$ -	\$ 610,000
19	40000222	JBLM	3106 AVN RC	JBLM 3106 HVAC System Replacement	\$ 958,000	\$ -	\$ -	\$ 958,000
20	40000217	Geiger Field	402	Geiger Field 402 Roof & Chiller Replacement	\$ 250,000	\$ 250,000	\$ -	\$ 500,000
21	40000219	Geiger Field	200, 300, 301, 304 & 401	Geiger Field 200, 300, 301, 304 & 401 HVAC System Replacement	\$ 300,000	\$ 300,000	\$ -	\$ 600,000
22	40000231	Snohomish	RC	Snohomish RC Recruiting Office Renovation	\$ 55,000	\$ 55,000	\$ -	\$ 110,000
23	40000233	Spokane	RC	Spokane RC HVAC System Replacement	\$ 442,000	\$ 339,000	\$ -	\$ 781,000
24	40000225	Port Orchard	RC	Port Orchard HVAC System Replacement	\$ 200,000	\$ 200,000		\$ 400,000

Washington Military Department
21-23 Minor Works Preservation

Priority	SubProject #	Location	Building #	Project Title	Federal 001 21-23 Preservation	State Bond 057 21-23 Preservation	MIL Capital 364 21-23 Preservation	Project Total
25	40000236	YTC	960	YTC 960 HVAC System Replacement	\$ 850,000	\$ -	\$ -	\$ 850,000
					\$ 8,726,000	\$ 3,595,000	\$ -	\$ 12,321,000

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:55PM

Project Number: 40000230

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: Sustainment Projects - Seattle Readiness Center

Starting Fiscal Year: 2022

Project Class: Preservation

Agency Priority: 0

Project Summary

The project is the sustainment of the building components of the 47 year old Seattle Readiness Center to extend the facility's useful life. The project includes renovation of the kitchen area and latrines; removal and replacement of damaged and aged flooring and ceiling tiles; repair of roof interior drain pipes; and grinding and asphalt paving of the privately owned vehicle (POV) parking lot.

Project Description

The Seattle Readiness Center is in dire need of upgrades to restore functionality and mitigate safety and hazard risks. The kitchen area has been shut down for almost three (3) years by the Washington Department of Health (DOH) as it was deemed it unsafe. All latrines have the original fixtures and equipment from 47 years ago. A majority of the internal roof drain pipes are leaking, leading to water spillage and creating a safety hazard. There are stained ceiling tiles in major areas of the building. Windows on the 2nd floor have not been treated and have no coverings thus exposing facility users to extreme heat and cold temperatures and overworking the heating, cooling, and ventilation systems. Lastly, the privately owned vehicle (POV) parking lot needs repair of potholes, cracks and uneven surfaces.

Majority of the sustainment work includes the kitchen area and latrine renewal; removal and replacement of damaged and aged floorings, ceiling tiles; repair of roof interior drain pipes; window panel treatments; and grinding and asphalt re-laying of the POV parking lot.

The kitchen will be renovated to meet the DOH standards allowing cooks to prepare meals for the units. Latrine renovations will update the original fixtures to include touch free bathroom items (i.e. faucets, soap, towel and sanitizer dispensers) to improve health and safety. Leaking internal roof drain pipes will be repaired to eliminate water spillage and improve safety. Stained ceiling tiles will be replaced and all windows will be tinted to reduce heat and cold temperature fluctuations. The POV parking lot will be grinded, filled as needed and repaved with asphalt for a safe parking.

The facility sustainment project will provide the units with a mission capable facility in accordance with the Department of Defense (DOD) Facilities Sustainment Model while awaiting the construction of a new Readiness Center which will not be completed for another 12-15 years per the Long Range Construction Plan.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:55PM

Project Number: 40000230

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	490,000				490,000
057-1	State Bldg Constr-State	490,000				490,000
	Total	980,000	0	0	0	980,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000230	40000230
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:54PM

Project Number: 40000227

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: Organizational Parking Lot Repair & Resurfacing - Seattle FMS/RC

Starting Fiscal Year: 2022

Project Class: Preservation

Agency Priority: 0

Project Summary

This project includes all labor and materials for the removal of grass, regrading and re-gravelling of the uneven and grass grown 10,465 square yards of unpaved military owned vehicle parking for the Seattle National Guard site.

Project Description

The military owned vehicle (MOV) parking area at the Seattle/Pier 91 location is severely damaged with potholes and uneven surfaces and areas that are not suitable for military vehicle parking. The parking area is as an access way for 141 wheeled vehicles, 188 trailers, 4 tracked vehicles, 18 fuel trucks, and 37 Heavy Expanded Mobility Tactical Truck (HEMTT).

This request will be the preservation of the MOV parking lot for the Readiness Center and Field Maintenance Shop unit vehicles at the Seattle/Pier 91 site. The request will fund the labor and materials for the re-grading and re-gravelling of uneven areas and removal of the noxious grasses. The project is programmed to be executed in state fiscal year 2022.

This is a preservation project to ensure proper access and storage of military vehicles and equipment. If no action is taken the parking lot will become unusable or cause damage to military vehicles.

The project is supported with 100% federally reimbursed funds from the National Guard.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	180,000				180,000
	Total	180,000	0	0	0	180,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:54PM

Project Number: 40000227

Project Title: Minor Works Preservation 2021-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000227	40000227
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:54PM

Project Number: 40000228

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: Road Repair and Resurfacing - Seattle MOV Parking

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 0

Project Summary

missing DP

Project Description

missing DP

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	250,000				250,000
057-1	State Bldg Constr-State	250,000				250,000
	Total	500,000	0	0	0	500,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000228	40000228
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:35PM

Project Number: 40000205

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - Bremerton RC

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 0

Project Summary

This project includes replacement of the major components of the heating, ventilation and air conditioning system such as chiller, boiler and air duct work for the HVAC system in the Bremerton Readiness Center, which is a 17 year-old facility.

Project Description

The HVAC system at the Bremerton Readiness Center is failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	250,000				250,000
057-1	State Bldg Constr-State	250,000				250,000
Total		500,000	0	0	0	500,000

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 3:35PM**Project Number:** 40000205**Project Title:** HVAC Replacement - Bremerton RC**Funding**

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts**No Operating Impact**

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000205	40000205
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:33PM

Project Number: 40000045

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 0

Project Summary

This project is the replacement of the heating, ventilation, and cooling system at the Buckley Readiness Center.

Project Description

1- Identify the problem or opportunity addressed. Why is the request a priority? This narrative should identify unserved/underserved people or communities, operating budget savings, public safety improvements or other backup necessary to understand the need for the request. For preservation projects, it is helpful to include information about the current condition of the facility or system.

There are 2 roof mounted heat pumps on the frontside. These units are reaching the end of their useful life and are failed or failing.

2- What will the request produce or construct (i.e., predesign or design of a building, construction of additional space, etc.)? When will the project start and be completed? Identify whether the project can be phased, and if so, which phase is included in the request. Be prepared to provide detailed cost backup.

The request is to replace HVAC systems that are scheduled to be replaced per their life cycle. This will avoid a critical system failure which would cost considerably more. Design phase would begin as soon as the required federal funding match is allocated. This is typically towards the end of the second quarter of the first year in the biennium. According to the SAAM, this project cannot be phased, however, it does contain a design portion (four months) and a construction portion (two to six months).

3-How would the request address the problem or opportunity identified in question 1? What would be the result of not taking action?

By replacing the 2 roof mounted heat pumps, it would help improve HVAC ventilation; exchanging or replacing air in any space to provide high indoor air quality which involves temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases. Ventilation removes unpleasant smells and excessive moisture, introduces outside air, keeps interior building air circulating, and prevents stagnation of the interior air. All of which is required under ASHRAE 62.2 regulation, IEEC, local building codes, and Army Regulation 420-1.

4- What alternatives were explored? Why was the recommended alternative chosen? Be prepared to provide detailed cost backup. If this project has an associated predesign, please summarize the alternatives the predesign considered. These systems have undergone regular scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to farther replace parts, or spend limited maintenance mechanic time to trouble-shoot and bandage these systems. Predesign includes potential for the need to retrofit space, penetrations, electrical and mechanical systems in compliance with current energy, building, and state codes.

5- Which clientele would be impacted by the budget request? Where and how many units would be added, people or communities served, etc.

The one unit WTN6A0, (A 1-19th Special Forces Group), and two detachments' units WTN698 (Augmentation Detachment Company A 1-19th Special Forces Group), and WYLMA1 (Detachment 1 Support Company 19th Special Forces Group) assigned to the Buckley Readiness Center building and all its occupants.

6- Will other funding be used to complete the project? How much, what fund source, and could the request result in matching federal, state, local or private funds?

The proposed project will be funded at 50% federal with 50% state matching funds.

7- Describe how this project supports the agency's strategic master plan or would improve agency performance. Reference feasibility studies, master plans, space programming and other analyses as appropriate.

This upgrade will extend the useful life of the mechanical system of the IT and Emergency planning building by 25 years (life

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:33PM

Project Number: 40000045

Project Title: Minor Works Preservation 2021-23 Biennium

Description

span of a new HVAC system), avoiding the cost of constructing a new system. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

8- For IT-related costs: Does this project fund the development or acquisition of a new or enhanced software or hardware system or service?

No

8.1-Does this decision package (DP) fund the acquisition or enhancements of any agency data centers? (See OCIO Policy 184 for definition.)

No

8.2-Does this DP fund the continuation of a project that is, or will be, under OCIO oversight? (See OCIO Policy 121.)

No

If the answer to any of these questions is yes, continue to the IT Addendum and follow the directions to meet the requirements for OCIO review.

N/A

9- If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail. See Chapter 12 (Puget Sound Recovery) in the 2019-21 Operating Budget Instructions.

N/A

10- Does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency? If yes, please elaborate.

No. While this project will reduce energy consumption by nature of replacing exhausted systems with new ones, there is no substantial, net-improvement from the baseline.

11-Is there additional information you would like decision makers to know when evaluating this request?

N/A

Location

City: Buckley

County: Pierce

Legislative District: 031

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

None

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	391,000				391,000
057-1	State Bldg Constr-State	391,000				391,000
	Total	782,000	0	0	0	782,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 3:33PM**Project Number:** 40000045**Project Title:** HVAC Replacement-Buckley RC**Funding**

Total

0

0

0

0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000045	40000045
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:49PM

Project Number: 40000214

Project Title: Minor Works Preservation 2021-23 Biennium

Description**Project Phase Title:** Flooding prevention and Building foundation preservation - CM 1**Starting Fiscal Year:** 2022**Project Class:** Preservation**Agency Priority:** 0**Project Summary**

This request is for federal spending authority for the design study to develop alternatives to address flooding and building foundation erosion caused by Murray Creek as it passes underneath Building 1 on Camp Murray.

Project Description

Building 1 provides work space to Military Department leadership, and therefore is a key element required to support the overall mission to minimize impacts of emergencies and disasters on the people, property, environment and economy of the State of Washington. While the original portion of the building was constructed in 1918, a 1960's era addition to Building 1 on Camp Murray was built out over the creek bed of Murray Creek. The creek running under the building degrades water quality and in-stream fish habitat for native kokanee due to channelization of the waterway and erosional inputs. The use of the in-stream area by military personnel, including as a graveled barbeque area, creates a direct conflict between agency operations and natural resource conservation/pollution. Flows of the creek have periodically flooded the area, blocking access to the building doors to the north of the building, and eroding the fill under the foundation of the building.

Project Overview:

This project would be a design study to develop alternatives for addressing the foundation deterioration, flooding impacts of the current creek flow, and negative impacts to stream and water quality. After design, construction/completion per recommended design will follow in the 23-25 biennium. The scientific aspect of this project would include photo point documentation and decade long monitoring of the creek before and after restoration.

This project was first conceived by the Environmental Department to primarily address the negative impacts to the creek due to channelization and erosion, in addition to the need to repair foundation and column base plates of Building 1. A 2016 building condition assessments found that the supports to the building 1 addition require further seismic evaluation and exhibit visual deficiencies due to rusting of the base plates.

The project is listed in Camp Murray's Integrated Natural Resources Management Plan (INRMP) to conserve and restore Murray Creek and habitat for native kokanee fish populations. The INRMP is a document required for installations covered under the Sikes Act. The Sikes Act directs the Secretary of Defense, in cooperation with the U.S. Fish and Wildlife Service and State fish and wildlife agencies, to carry out a program for the conservation and rehabilitation of natural resources on military installations.

Project Alternatives:

Several alternatives have been explored including alteration of the bridges adjacent to the building, armoring of the foundation element eroded by the stream flow, and modification of downstream culverts which currently restrict flow in high water events. These were deemed

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Description

unfeasible due to discouragement by agencies such as Department of Fish and Wildlife that they would not be long term fish & environmentally friendly solutions.

If the issues are not addressed there will be continued deterioration of the Building 1 foundation, negative impacts to stream and water quality, and subsequently a need for extensive repair to the building. A Building Condition Assessment (2016) identified deficiencies in the Building 1 Addition that require further evaluation. The 2018 Stell Feasibility Study examined impacts, risks, and needs for the building and creek. To date, the deterioration of the building has not been addressed, though these site assessments have indicated the problem is causing differential settlement of the building, which is causing impacts to the buildings framing.

This project is a forward-thinking model of complementarily benefiting military operations, natural resources, and cultural resources. It is an example of leadership that concurrently protects and enhances both cultural and natural resources with proactive management.

Project Funding:

It is anticipated that the project will be supported with 100% federal reimbursement from the National Guard, as the principal aspect will be working with the creek flow and obstacles to the flow, on the Camp Murray Training site. This request is for \$200,000 of federal spending authority to complete the design phase of this project.

Project Type

Facility Preservation (Minor Works)

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	420,000				420,000
057-1	State Bldg Constr-State	420,000				420,000
	Total	840,000	0	0	0	840,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000214	40000214
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:48PM

Project Number: 40000212

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - Camp Murray Bldg 34

Starting Fiscal Year: 2022

Project Class: Preservation

Agency Priority: 0

Project Summary

The project is the replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of building 34 on Camp Murray. It will replace the air handling units, boilers, heat pumps, chillers, circulation pumps, fan coil and condensing units and exhaust fans, resulting in a complete and efficient system.

Project Description

The HVAC systems in building 34 are failing despite multiple maintenance work orders and component replacements. The facility is 41 years old. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

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Report Number: CBS002

Date Run: 9/14/2020 3:48PM

Project Number: 40000212

Project Title: HVAC Replacement - Camp Murray Bldg 34

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	537,500				537,500
057-1	State Bldg Constr-State	362,500				362,500
	Total	900,000	0	0	0	900,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000212	40000212
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:34PM

Project Number: 40000063

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 0

Project Summary

Reroof the lowslope portion of building 13 roof on Camp Murray.

Project Description

1- Identify the problem or opportunity addressed. Why is the request a priority? This narrative should identify unserved/underserved people or communities, operating budget savings, public safety improvements or other backup necessary to understand the need for the request. For preservation projects, it is helpful to include information about the current condition of the facility or system.

The flat roof portion is the original single ply roofing, part of the original construction in 1994. The roof has reached its useful life with damages on the membrane and splitting joints. The parapet walls also need to be replaced with new metal cap flashings. Replace the roof will protect assets in the building from leaking and extend the useful life of the facility.

2- What will the request produce or construct (i.e., predesign or design of a building, construction of additional space, etc.)? When will the project start and be completed? Identify whether the project can be phased, and if so, which phase is included in the request. Be prepared to provide detailed cost backup.

Replacement of the roof will protect assets in the building from leaking and extend the useful life of the facility. Combining the roof and flashing replacement, adding insulation as appropriate, and rooftop equipment correct placement, is ideal for better lay out, functionality and efficiency, avoiding future damages to the roof due to misplacement of the equipment.

Rooftop equipment include, but are not limited to, the following: HVAC equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling.

3-How would the request address the problem or opportunity identified in question 1? What would be the result of not taking action?

The request will protect assets in the building from leaking, avoiding further damages to the roof. The result of not taking action shortens the life of the roof, and can cause further damage to the building itself and what covers it.

4- What alternatives were explored? Why was the recommended alternative chosen? Be prepared to provide detailed cost backup. If this project has an associated predesign, please summarize the alternatives the predesign considered.

This is a failed or failing component. The replacement of roof is the only course of action available in order to have an operational facility that meet standards and codes.

5- Which clientele would be impacted by the budget request? Where and how many units would be added, people or communities served, etc.

This is a warehouse for the United States Property and Fiscal Office (USPFO) staff. They store equipment for all WA Army National Guard units, so they could all be impacted if spending authority for this project is not approved.

6- Will other funding be used to complete the project? How much, what fund source, and could the request result in matching federal, state, local or private funds?

The proposed project will be funded at 100% federal only.

7- Describe how this project supports the agency's strategic master plan or would improve agency performance. Reference feasibility studies, master plans, space programming and other analyses as appropriate.

The Department's 2017-19 Strategic Plan points out that the overall quality and functionality rating of our Army National Guard capital facilities is only marginal to average. Our facilities are at further risk if funding for capital improvement projects is not provided. This project supports four out of six strategic goals of the Department: 1) Enhanced Preparedness, 2) Outreach, 3) Modernization, 4) Efficiency and Effectiveness.

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Report Number: CBS002

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Project Number: 40000063

Project Title: Minor Works Preservation 2021-23 Biennium

Description

8- For IT-related costs: Does this project fund the development or acquisition of a new or enhanced software or hardware system or service?

No

8.1-Does this decision package (DP) fund the acquisition or enhancements of any agency data centers? (See OCIO Policy 184 for definition.)

No

8.2-Does this DP fund the continuation of a project that is, or will be, under OCIO oversight? (See OCIO Policy 121.)

No

If the answer to any of these questions is yes, continue to the IT Addendum and follow the directions to meet the requirements for OCIO review.

N/A.

9- If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail. See Chapter 12 (Puget Sound Recovery) in the 2019-21 Operating Budget Instructions.

N/A

10- Does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency? If yes, please elaborate.

No

11-Is there additional information you would like decision makers to know when evaluating this request?

N/A

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Facility Preservation (Minor Works)

Program (Minor Works)

Growth Management impacts

None

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	200,000				200,000
	Total	200,000	0	0	0	200,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

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Report Number: CBS002

Date Run: 9/14/2020 3:34PM

Project Number: 40000063

Project Title: Minor Works Preservation 2021-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000063	40000063
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:57PM

Project Number: 40000238

Project Title: Minor Works Preservation 2021-23 Biennium

Description**Project Phase Title:** HVAC Replacement - YTC Bldg 870 and Bldg 872**Starting Fiscal Year:** 2022**Project Class:** Preservation**Agency Priority:** 0**Project Summary**

The project is the replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) systems of the 26 years old Readiness Center (Bldg. 870), 25 years old Vehicle Maintenance Shop (Bldg. 872), and the 44 years old General Instruction building at the Yakima Training Center (YTC) site.

Project Description

The HVAC systems at the Yakima Training Center, buildings 870 and 872, are failing despite multiple maintenance work orders and component replacements. The HVAC systems currently do not have the capacity to maintain the heating/cooling load for the building and currently operate with old refrigerant. The systems are in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC systems have undergone regular scheduled maintenance and have had parts replaced as needed. The systems were inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC systems ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. These upgrades will extend the useful life of the mechanical/HVAC systems of the buildings by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort. Component replacement includes building controls, condensing units, exhaust fans, furnace, unit heaters, duct work dampers and VAV's (for Bldg. 870), and, duct work, unit heaters, building control system, condensing units, exhaust fans, furnace, & unit heaters (for Bldg. 872), resulting in a complete and efficient system.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

Building 870 is supported with 75% federally reimbursed funds from the National Guard. There is a 25% state matching funds requirement for this building. Buildings 872 is supported with 100% federally reimbursed funds from the National Guard. There is no state match requirement for those buildings.

Project Type

Facility Preservation (Minor Works)

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Version: C1 21-23 BN Capital Budget Request

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Date Run: 9/14/2020 3:57PM

Project Number: 40000238

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	487,500				487,500
057-1	State Bldg Constr-State	112,500				112,500
	Total	600,000	0	0	0	600,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000238	40000238
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:53PM

Project Number: 40000224

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: Roof Repair - JBLM CSMS Bldg 9705

Starting Fiscal Year: 2022

Project Class: Preservation

Agency Priority: 20

Project Summary

This project is the preservation of the exterior walls of the Combined Support Maintenance Shop (CSMS) building on Joint Base Lewis McChord (JBLM) by installing metal flashing from roof ends up to the top of the wall to get rid of direct water intrusion and maintain its structural integrity.

Project Description

The 8 years old CSMS building was designed with a roof system enclosed with concrete exterior walls. Roof flashing needs to be installed to solve a continuing issue of water intrusion on the interior walls and water build-up on the interior floors. This problem poses a long-term structural risk to the building as well as life and safety risks to facility users. The maintenance team of the Construction and Facilities Management Office (CFMO) have applied wall protection materials, however; the water intrusion and water leaks continue.

This project will install roof flashing on the JBLM-CSMS building to prevent water leakage into the building. The project is programmed to be executed once federal funding becomes available by the 3rd quarter of the federal fiscal year 2021 and expected to be completed before the end of the state fiscal year 2022.

The project is supported with 100% federally reimbursed funds from the National Guard. There is no state match requirement.

When the project is completed the walls will maintain their structural integrity, equipment will be protected, and slip/injury risk to personnel will be mitigated.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	150,000				150,000
	Total	150,000	0	0	0	150,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

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Report Number: CBS002

Date Run: 9/14/2020 3:53PM

Project Number: 40000224

Project Title: Minor Works Preservation 2021-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000224	40000224
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:56PM

Project Number: 40000234

Project Title: Minor Works Preservation 2021-23 Biennium

Description**Project Phase Title:** Building Envelope Repair & Resealing - Walla Walla RC**Starting Fiscal Year:** 2023**Project Class:** Preservation**Agency Priority:** 20**Project Summary**

This project is the sealing of the exterior brick wall on the Walla Walla Readiness Center.

Project Description

This project is the sealing of the brick exterior wall of the Walla Walla Readiness Center to preserve the historical site. Several leaks have been repaired, but this resealing will help in reducing future damage. This project is 100% federally reimbursed funding from the National Guard. There is no state match requirement. The total project cost is \$35,000.

Location**City:** Walla Walla**County:** Walla Walla**Legislative District:** 016**Project Type**

Facility Preservation (Minor Works)

Growth Management impacts

Non

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	35,000				35,000
	Total	35,000	0	0	0	35,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000234	40000234
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:47PM

Project Number: 40000211

Project Title: Minor Works Preservation 2021-23 Biennium

Description**Project Phase Title:** Parking Lot Repair & Resurfacing - Camp Murray Bldg 32**Starting Fiscal Year:** 2023**Project Class:** Preservation**Agency Priority:** 20**Project Summary**

This project will repair uneven asphalt at Camp Murray building 32 on the entryway ramp providing a smooth transition from the road to the parking area for better control and stability for the forklift and driver.

Project Description

Camp Murray's building 32 houses the United States Property and Fiscal Office (USPFO). The asphalt on a forklift entryway ramp is uneven with an approximate two-inch height difference between the roadway and the ramp that creates a hazardous condition to the forklift and operator. The forklift operator must carefully maneuver over the lip and uneven asphalt. The request will repair and replace asphalt on the entryway ramp to the parking area, resulting in a gradual transition to the incline, alleviating safety concerns.

The replacement of the uneven asphalt is the only course of action available in order to have an operational facility that meet standards and codes. Leaving the asphalt as-is will cause the unsafe circumstance to continue. The USPFO supplies equipment to units across the state making this a heavily utilized forklift workspace.

The project is supported with 100% federally reimbursed funds from the National Guard. There is no state match requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	50,000				50,000
	Total	50,000	0	0	0	50,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:47PM

Project Number: 40000211

Project Title: Minor Works Preservation 2021-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000211	40000211
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:45PM

Project Number: 40000208

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - Camp Murray Bldg 19

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 20

Project Summary

The project is the replacement of the the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of the 29 years old Communication Center Building (Building 19) on Camp Murray. It will replace the building control system, heat pumps and one exhaust fan, resulting in a complete and efficient system.

Project Description

The HVAC system in Camp Murray Building #19 is failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 100% federally reimbursed funds from the National Guard. There is no state match requirement. The total cost is \$290,000.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

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Report Number: CBS002

Date Run: 9/14/2020 3:45PM

Project Number: 40000208

Project Title: HVAC Replacement - Camp Murray Bldg 19

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	290,000				290,000
	Total	290,000	0	0	0	290,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000208	40000208
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:35PM

Project Number: 40000206

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: Roof Repair - Camp Murray Bldg 8

Starting Fiscal Year: 2022

Project Class: Preservation

Agency Priority: 20

Project Summary

The project is for roof repair of the 20 years old Defense Operations Information Management Building (Bldg. 8) on Camp Murray.

Project Description

A section of the 5,400 square feet metal roof on building #8 on Camp Murray is damaged, causing water to leak into the interior of the building. Building #8 houses the Defense Operations Information Management section of the Washington Army National Guard (WAARNG). This building houses all of the information systems that supports the WAARNG statewide, specifically federal system users. Continued precipitation into the interior of the building may eventually compromise the sensitive network equipment as well as interior furniture, fixtures, and structural elements.

This request will address the damaged roof in one of the sections of the building which is causing water to leak into the building interior. Not taking action will lead to more roof damage, increased maintenance costs, more damages due to water leaks and the eventual risk of damage to information systems that could cause a major network crash to the WAARNG.

The only alternative to replacing the damage section of the roof is to leave it as it is and repair it as it leaks throughout the year. These efforts can no longer work due to the degradation of the material at the site of the leaks.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	75,000				75,000
057-1	State Bldg Constr-State	75,000				75,000
	Total	150,000	0	0	0	150,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:35PM

Project Number: 40000206

Project Title: Roof Repair - Camp Murray Bldg 8

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000206	40000206
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:46PM

Project Number: 40000210

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - Camp Murray Bldg 32

Starting Fiscal Year: 2022

Project Class: Preservation

Agency Priority: 20

Project Summary

The project is the removal and replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of Building 32 on Camp Murray, which houses the US Property and Fiscal Office (USPFO). It will replace the central air conditioning unit, condensing units, boilers, cabinet heaters, exhaust fans, furnaces, air handlers, piping, unit heaters, building controls, and duct works, resulting in a complete and efficient system.

Project Description

The HVAC system in Camp Murray Building #32 is failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 100% federally reimbursed funds from the National Guard. There is no state match requirement. The total cost of the project is \$955,000

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Expenditures

2021-23 Fiscal Period

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:46PM

Project Number: 40000210

Project Title: HVAC Replacement - Camp Murray Bldg 32

Funding

<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
001-2	General Fund-Federal	955,000				955,000
	Total	955,000	0	0	0	955,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000210	40000210
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:49PM

Project Number: 40000215

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - Ephrata RC and FMS

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 20

Project Summary

The project is the replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of the 34 years old Field Maintenance Shop and the 42 years old Readiness Center in Ephrata. It will replace the condensing units, air handling units, furnace, exhaust fans, heat pumps and all other air duct work, resulting in a complete and efficient system.

Project Description

The HVAC systems at the Ephrata Readiness Center and Field Maintenance Shop are failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 75% federally reimbursed funds from the National Guard. There is a 25% (\$100,000) state matching funds requirement. The total project cost is 400,000.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:49PM

Project Number: 40000215

Project Title: HVAC Replacement - Ephrata RC and FMS

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	300,000				300,000
057-1	State Bldg Constr-State	100,000				100,000
	Total	400,000	0	0	0	400,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000215	40000215
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:51PM

Project Number: 40000220

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: Hangar Door Repair - JBLM AASF1 Bldg 3106

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 20

Project Summary

This project is the removal and replacement of the failing mechanism of the Hangar Door of the 37 years old Army Aviation Support Facility 1 located on Joint Base Lewis McChord. It also includes other work and necessary part replacement to address failing issues and ensure that all doors are in good working condition at all times.

Project Description

The automated/motorized function of the sixteen (16) hangar doors at the Army Aviation Support Facility (AASF1) are inoperative and must be manually operated by Soldiers. The AASF 1 building was built in 1983 and has never had the door mechanisms replaced. There are major defects identified on the mechanisms of the motorized doors, such as, burnt out power strips, power relays, and motors.

This request will replace the mechanisms of the sixteen (16) hangar doors for the AASF1 building. The project is supported with 100% federally reimbursed funds from the National Guard. There is no state match requirement.

This project ensures a smooth, safe, and efficient hangar door operation. This becomes mission critical during times of inclement weather or during disaster activations due to continuous disruptions to the maintenance crew at the flight facility, causing delays of mission critical flights during emergencies.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	610,000				610,000
	Total	610,000	0	0	0	610,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:51PM

Project Number: 40000220

Project Title: Minor Works Preservation 2021-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000220	40000220
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:52PM

Project Number: 40000222

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - JBLM AASF1 Bldg 3106

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 20

Project Summary

The project is the replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of the 37 years old Army Aviation Support Facility I (Bldg. 3106) located at Joint Base Lewis McChord. It will replace the condensing unit, exhaust fan, gas pack, gas radiant heater, condensing unit, duct work, and building control system, resulting in a complete and efficient system.

Project Description

The HVAC system at the Army Aviation Support facility is failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 100% federally reimbursed funds from the National Guard.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:52PM

Project Number: 40000222

Project Title: HVAC Replacement - JBLM AASF1 Bldg 3106

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	958,000				958,000
	Total	958,000	0	0	0	958,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000222	40000222
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:50PM

Project Number: 40000217

Project Title: Minor Works Preservation 2021-23 Biennium

Description**Project Phase Title:** Roof & Chiller Replacement - Geiger Field Bldg 402**Starting Fiscal Year:** 2023**Project Class:** Preservation**Agency Priority:** 20**Project Summary**

The preservation project is for the removal and replacement of the roofing and the Heating Ventilation and Air Conditioning (HVAC) system chiller of the 46 years old Geiger Field Readiness Center.

Project Description

The roof at the Geiger Field Readiness Center is nearing the end of its useful life. The facility has a total footprint of 16,554 square feet. Damage due to age to the membrane and parapet metal cap flashings are causing minor water leaks. The roof system is the primary facility protection at all times thus roof failure can lead to further damage on all other building components such as insulation, ceiling, interior floors, walls, electrical system, HVAC system and all other important components requiring much higher dollar requirements when not properly addressed.

In addition, the chiller of the HVAC system is failing, with complete failure on several occasions. The chiller is near the end of its useful life. A replacement is needed to ensure a more efficient cooling system especially during summer months. This replacement will also avoid critical system failures which would cost considerably more for repair.

The request is for the removal and replacement of the roofing system and the chiller. The design of the project is expected to be executed by state fiscal year (SFY) 2022 while preservation work is projected to be done SFY 2023.

Re-roofing will extend the useful life of the roofing system by an additional 25 years and will ensure total protection of the building from the wet condition of the Pacific Northwest. The chiller replacement ensures an efficient and effective cooling system.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	250,000				250,000
057-1	State Bldg Constr-State	250,000				250,000
	Total	500,000	0	0	0	500,000

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:50PM

Project Number: 40000217

Project Title: Roof & Chiller Replacement - Geiger Field Bldg 402

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000217	40000217
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:51PM

Project Number: 40000219

Project Title: Minor Works Preservation 2021-23 Biennium

Description**Project Phase Title:** HVAC Replacement - Geiger Field 200, 300, 301, 304 & 401**Starting Fiscal Year:** 2023**Project Class:** Preservation**Agency Priority:** 20**Project Summary**

The project is the replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of Bldg 200, 300, 301, 304 & 401 at the Geiger Field site. It will replace the condensing units, air handling units, furnace, exhaust fans, heat pumps and all other air duct work, resulting in a complete and efficient system.

Project Description

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	300,000				300,000
057-1	State Bldg Constr-State	300,000				300,000
	Total	600,000	0	0	0	600,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:51PM

Project Number: 40000219

Project Title: HVAC Replacement - Geiger Field 200, 300, 301, 304 & 401

Funding

		Future Fiscal Periods			
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000219	40000219
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:55PM

Project Number: 40000231

Project Title: Minor Works Preservation 2021-23 Biennium

Description**Project Phase Title:** Recruiting Office Renovation - Snohomish RC**Starting Fiscal Year:** 2022**Project Class:** Preservation**Agency Priority:** 20**Project Summary**

This project is for the improvement of the Recruiting and Retention office located at the Snohomish Readiness Center. The project includes repairing and repainting interior walls, installing an awning at the entryway, replacing damaged doors and flooring, and replacing air ducts.

Project Description

The Snohomish Recruiting and Retention Office is outdated and does not meet mission requirements. The small office is not physically conducive to encourage recruitment as it is rundown and unpresentable. Water accumulates underneath the entry way door because there is no awning, causing damage to the door and flooring. Interior paints are fading, the walls need repair. The old HVAC air duct is damaged, requiring replacement

Recruiters relayed that they usually try to meet their potential recruits at an alternate location so that they will not be discouraged with the physical look of the facility. This facility is counter-intuitive to the mission it supports, as an eyesore for the department rather than a display of leadership and opportunity in the National Guard.

This request is for the preservation of the Snohomish Recruiting and Retention Office. The interior walls will be repaired and painted, the entryway will have an awning installed, the door and damaged flooring will be replaced and the HVAC air ducts will be replaced. This action is projected to be completed State Fiscal Year 2022.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	55,000				55,000
057-1	State Bldg Constr-State	55,000				55,000
Total		110,000	0	0	0	110,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:55PM

Project Number: 40000231

Project Title: Recruiting Office Renovation - Snohomish RC

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000231	40000231
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:56PM

Project Number: 40000233

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - Spokane Readiness Center

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 20

Project Summary

This project is replacement of the major components of the heating, ventilation and air conditioning system such as chiller, boiler and air duct work for the HVAC system in the Spokane Readiness Center.

Project Description

The HVAC system at the Spokane Readiness Center is failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	442,000				442,000

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:56PM

Project Number: 40000233

Project Title: HVAC Replacement - Spokane Readiness Center

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	339,000				339,000
	Total	781,000	0	0	0	781,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000233	40000233
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:53PM

Project Number: 40000225

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - Port Orchard RC

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 20

Project Summary

The project is the replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of the 79 years old Readiness Center in Bremerton site. It will replace the cabinet unit heater, building control system, roof top unit, and exhaust fan, resulting in a complete and efficient system.

Project Description

The HVAC system at the Port Orchard Readiness Center is failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 50% federally reimbursed funds from the National Guard. There is a 50% state matching funds requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:53PM

Project Number: 40000225

Project Title: HVAC Replacement - Port Orchard RC

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	200,000				200,000
057-1	State Bldg Constr-State	200,000				200,000
	Total	400,000	0	0	0	400,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000225	40000225
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:57PM

Project Number: 40000236

Project Title: Minor Works Preservation 2021-23 Biennium

Description

Project Phase Title: HVAC Replacement - YTC Bldg 960

Starting Fiscal Year: 2023

Project Class: Preservation

Agency Priority: 20

Project Summary

This project is the replacement of the major components of the Heating, Ventilation and Air Conditioning (HVAC) system of the 18 years old Maneuver Area Training Site (MATES) Building located at the Yakima Training Center. It will replace the air conditioning, air dryer, radiant heaters, make up air units, package condensing units, roof top units, exhaust fans, vehicle exhaust fans hoses and reels, heat recovery units, furnace, & unit heaters, resulting in a complete and efficient system.

Project Description

The HVAC system at the Yakima Training Center, building 960, is failing despite multiple maintenance work orders and component replacements. The HVAC system currently does not have the capacity to maintain the heating/cooling load for the building and currently operates with old refrigerant. The system is in working order, however; it requires more energy than is necessary to operate and requires many labor hours to continue functioning. Additionally, replacement parts are nearing the end of their useful lives.

The HVAC system has undergone regular scheduled maintenance and has had parts replaced as needed. The system was inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to trouble-shoot components of an aged system.

By replacing the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. This upgrade will extend the useful life of the mechanical/HVAC system of the building by 25 years. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The alternative to replacing the HVAC system is to continue to spend more money on replacement parts and man-hours to keep the system functioning. Due to age of the HVAC and maintenance and parts replacement costs, the recommended cost-effective alternative is to replace the HVAC system.

The project is supported with 100% federally reimbursed funds from the National Guard. There is no state match requirement.

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

The preservation projects preserve the existing facilities with their existing purposes.

Funding

Expenditures

2021-23 Fiscal Period

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 3:57PM

Project Number: 40000236

Project Title: HVAC Replacement - YTC Bldg 960

Funding

<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
001-2	General Fund-Federal	850,000				850,000
	Total	850,000	0	0	0	850,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000236	40000236
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Washington Military Department
19-21 Minor Works Preservation (Reappropriation)

Priority	SubProject#	Location	Project Title	Current Project Estimate	Federal 001 19-21 Pres	State Bond 057 19-21 Pres	MIL Capital 364 19-21 Pres	Notes
1	40000051	CM 20B	HVAC Replacement	\$ 300,000		\$ 300,000		In progress
2	40000046	CM 33	Locker Room/Restroom Upgrades	\$ 950,000	\$ 475,000	\$ 475,000		In progress
3	40000053	Grandview RC	Re-Roof Lowslope + Insulation	\$ 700,000	\$ 350,000	\$ 350,000		In progress
4	40000142	CM 15	HVAC Replacement	\$ 300,000	\$ 150,000	\$ 150,000		In progress
5	40000057	YTC 870	Re-Roof Lowslope + Insulation	\$ 300,000	\$ 225,000	\$ 75,000		In progress
6	40000047	CM 44	Re-Roof Lowslope + Insulation	\$ 140,000	\$ 140,000			In progress
7	40000048	CM 50	HVAC & Roof Replacement	\$ 200,000	\$ 200,000			
8	40000049	CM 51	HVAC & Roof Replacement	\$ 200,000	\$ 200,000			
9	40000052	CM Parade	Flag Pole Replacement & Base Reinforcement	\$ 25,000	\$ 25,000			In progress
10	40000054	JBLM 3106 AASF	Re-Roof Lowslope + Insulation	\$ 550,000	\$ 550,000			In progress
					\$ 2,315,000	\$ 1,350,000	\$ -	
Total Appropriation:					\$ 5,224,000	\$ 2,756,000	\$ -	
Variance:					\$ 2,909,000	\$ 1,406,000	\$ -	

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This reappropriation request is for the completion of minor works projects already in progress or in finalization of contracting during fiscal year 2021. These projects repair, preserve, and extend the life of state and federally supported Washington Military Department facilities.

Project Description

The Washington Military Department manages an inventory of over 450 state-owned, federally licensed, and/or commercially leased facilities in 34 communities throughout the state. Totalling over three and a half (3.5) million gross square feet of floor space, these facilities reside on 1,000-plus acres of land. The average age of the facilities is greater than 45 years, and some are more than 100 years old. This reappropriation request provides funding for minor works preservation projects already in progress for the most critical of these facilities.

These projects will be executed using agency personnel and public works contracts. These projects provide capital asset preservation creating and/or sustaining safe, comfortable and efficient buildings for the agency's employees and members of the communities across the state. Examples of projects include replacement of heating, ventilation and air conditioning (HVAC) systems and components to reduce energy costs and extend the life of critical systems in the building; installation of new lighting, flooring and finishes to reduce safety hazards; roof repairs, and road and/or parking lot repairs and resurfacing.

In addition to extending the useful life of these facilities, these projects aim to reduce energy consumption and reduce the amount of maintenance hours and funds spent on recurring work orders, which allows our maintenance personnel to concentrate on the reduction of our maintenance backlog. If the agency does not act, these facilities will become less and less efficient and deteriorate to an unusable state. This, in turn, would require additional funding for new facilities or extensive renovations.

Project Impacts:

The Department's Strategic Plan points out that the overall quality and functionality rating of Military Department facilities is only marginal to average. These facilities are at further risk if funding for capital preservation projects is not provided. These projects support five of the six strategic goals of the department: 1) Enhanced Preparedness, 2) Outreach 3) Modernization, 4) Efficiency and Effectiveness, and 5) Youth Development and Education by providing safe, efficient and fully functional facilities for the employees of the Washington Military Department and Washington National Guard.

The facility inventory of the Military Department primarily serves state and federal employees carrying out the mission of the agency such as the Emergency Management Division, Washington Youth Academy, Army National Guard, and Air National Guard. Emergency response personnel from all levels of government use the agency's facilities, not just at the State Emergency Operations Center at Camp Murray but also in local communities across the state. Many of these facilities are also rented by local community groups for recreational and social activities.

Project Funding:

Funding for these projects varies and is determined by the function and location of the buildings. Federally reimbursable funding through the National Guard Master Cooperative Agreement and Military Construction Program ranges from 100% federally reimbursable to 75%, 25%, and 0% (100% state). The Washington Military Department and Washington National Guard are committed to upholding the agency's fiduciary responsibility by being prudent with every dollar received from both state and federal sources, understanding that both funding sources are very limited.

Growth Management Impacts:

The preservation projects preserve the existing facilities with their existing purposes.

OFM

**245 - Military Department
Capital Project Request**
2021-23 Biennium
*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Location

City: Statewide

County: Statewide

Legislative District: 098

Project Type

Facility Preservation (Minor Works)

Health, Safety and Code Requirements (Minor Works)

Infrastructure Preservation (Minor Works)

Growth Management impacts

None, all projects are within current facility footprints.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	0
		Future Fiscal Periods				
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

SubProjects

SubProject Number: 40000051

SubProject Title: HVAC Replacement-Camp Murray 20B

OFM

**245 - Military Department
Capital Project Request**
2021-23 Biennium
*

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000051

SubProject Title: HVAC Replacement-Camp Murray 20B

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the heating, ventilation and cooling (HVAC) systems of building 20B on Camp Murray, as scheduled per its normal life cycle.

Project Description

Building 20B has four roof-mounted heat pumps and several split systems. All are approaching the end of their useful life. This project will replace the HVAC systems and avoid a critical system failure, which would cost considerably more in labor and repair costs. Replacement of the four roof-mounted heat pumps would help improve HVAC ventilation, which is defined as exchanging or replacing air in any space to provide high indoor air quality which involves temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases. Ventilation removes unpleasant smells and excessive moisture, introduces outside air, keeps interior building air circulating, and prevents stagnation of the interior air.

These systems have undergone regular scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessment for the need to retrofit space, penetrations, and electrical and mechanical systems in compliance with current energy, building, and state codes.

The project cost is \$300,000 and does not qualify for federal funds.

Project Type

Facility Preservation (Minor Works)

Health, Safety and Code Requirements (Minor Works)

Infrastructure Preservation (Minor Works)

Program (Minor Works)

Operating Impacts

No Operating Impact

SubProject Number: 40000046

SubProject Title: Locker Room-Camp Murray 33

OFM

245 - Military Department
Capital Project Request

2021-23 Biennium

*

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000046

SubProject Title: Locker Room-Camp Murray 33

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project renovates the locker rooms, showers and restrooms of building 33 on Camp Murray with new plumbing fixtures, partitions, water conservation valves, and flooring.

Project Description

Building 33 was constructed in the 1950s. The existing locker rooms, showers and restrooms in the building are too small and the plumbing and finishes have not been updated since the initial construction. Previous remodels of the building have left dead-end hallways and other underutilized space. The fitness center, locker rooms, and restrooms are used by personnel across Camp Murray, not just the occupants of building 33.

The project includes the design and construction of a new layout for the locker rooms, showers and restrooms with new plumbing fixtures, partitions, water conservation valves, and flooring. The alternative of not completing the project results in ongoing repairs of old, outdated, and failing equipment that lacks modern water conservation features.

This project is funded with 50% (\$475,000) federally reimbursed funds from the National Guard and a 50% (\$475,000) state match. The total cost is \$950,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Facility Preservation (Minor Works)

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

None. The preservation projects preserve the existing facilities with existing purposes.

Funding

		Expenditures		2021-23 Fiscal Period	
Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal				
	Total	0	0	0	0

Funding

		Expenditures		2021-23 Fiscal Period	
Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State				
	Total	0	0	0	0

OFM

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000046
SubProject Title: Locker Room-Camp Murray 33

	Future Fiscal Periods			
	2023-25	2025-27	2027-29	2029-31
001-2 General Fund-Federal				
Total	0	0	0	0

	Future Fiscal Periods			
	2023-25	2025-27	2027-29	2029-31
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

Narrative

No operating impacts. Facility is being improved.

SubProject Number: 40000053
SubProject Title: Roof Replacement-Grandview RC

OFM

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036
Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000053
SubProject Title: Roof Replacement-Grandview RC

Starting Fiscal Year: 2020
Project Class: Preservation
Agency Priority: 5

Project Summary

This Grandview Readiness Center project includes re-roofing the flat roof portion of the building, including flashing and additional insulation as required.

Project Description

The flat roof portion of the Grandview Readiness Center is the original single-ply roofing and part of the original construction in 1994. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The parapet walls need to be replaced with new metal cap flashings.

Replacement of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition and correct placement of rooftop equipment, is ideal for functionality and efficiency and will mitigate future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling.

The project cost is \$700,000 and is 50% (\$350,000) funded with federally reimbursed funds from the National Guard with a 50% (\$350,000) state match requirement.

Location

City: Grandview

County: Yakima

Legislative District: 015

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

SubProject Number: 40000142

SubProject Title: HVAC Replacement-Camp Murray 15

OFM

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000142

SubProject Title: HVAC Replacement-Camp Murray 15

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project will replace the heating, ventilation and cooling (HVAC) systems in building 15 on Camp Murray, as scheduled per their normal life cycles.

Project Description

Building 15 has four roof-mounted heat pumps and several split systems. All are approaching the end of their useful life. This project will replace the HVAC systems and avoid a critical system failure, which would cost considerably more in labor and repair costs. Replacement of the four roof-mounted heat pumps would help improve HVAC ventilation, which is defined as exchanging or replacing air in any space to provide high indoor air quality which involves temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases. Ventilation removes unpleasant smells and excessive moisture, introduces outside air, keeps interior building air circulating, and prevents stagnation of the interior air.

These systems have undergone regular scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessment for the need to retrofit space, penetrations, and electrical and mechanical systems in compliance with current energy, building, and state codes.

The project cost is \$300,000, supported with 50% (\$150,000) federally reimbursed funds from the National Guard. There is a 50% (\$150,000) state match requirement.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

SubProject Number: 40000057

SubProject Title: Roof Replacement- Yakima (YTC) 870

OFM

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000057

SubProject Title: Roof Replacement- Yakima (YTC) 870

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

YTC 870 Roof Replacement: This project will re-roof the flat roof portion of building 870 at the Yakima Training Center, including flashing and additional insulation as required.

Project Description

The flat roof portion of building 870 is the original single-ply roofing, part of the original construction in 1994. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The parapet walls need to be replaced with new metal cap flashings.

Replacement of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition and correct placement of rooftop equipment, is ideal for functionality and efficiency and will mitigate future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling.

The project cost is \$300,000 and is 75% (\$225,000) funded with federally reimbursed funds from the National Guard with a 25% (\$75,000) state match requirement.

Operating Impacts

No Operating Impact

SubProject Number: 40000047

SubProject Title: Roof Replacement-Camp Murray 44

OFM

**245 - Military Department
Capital Project Request
2021-23 Biennium**

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000047

SubProject Title: Roof Replacement-Camp Murray 44

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the roof of the low slope portion of building 44 on Camp Murray, including flashing and additional insulation as required.

Project Description

On building 44, the low slope portion of the roof is torch-down roofing, which was part of the original construction in 1997. The roof has reached its useful life and has damages on the membrane and splitting joints. The parapet walls need to be replaced with new metal cap flashings.

Replacement of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition and correct placement of rooftop equipment, is ideal for functionality and efficiency, avoiding future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling.

The project cost is \$140,000 and is 100% funded with federally reimbursed funds from the National Guard with no state match requirement.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

SubProject Number: 40000048

SubProject Title: Roof Replacement & HVAC Replacement-Camp Murray 50

OFM

**245 - Military Department
Capital Project Request
2021-23 Biennium**

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000048

SubProject Title: Roof Replacement & HVAC Replacement-Camp Murray 50

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the roof and the heating, ventilation and cooling systems of building 50 on Camp Murray as scheduled per their expected life cycles.

Project Description

On building 50, the low slope portion of the roof is torch-down roofing, part of the original construction in 1997. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The heating, ventilation and cooling systems (HVAC) system is also at the end of its useful life.

Replacing the roof will protect assets in the building from leaking and extend the useful life of the facility. The project also includes replacing the HVAC systems as scheduled per their expected life cycles. This replacement will avoid a critical system failure, which would cost considerably more for emergency repairs.

Re-roofing the low slope portion of the building, repairing splitting joists and replacing flashing, as required, will prevent water intrusion into the building. Adding insulation as appropriate will reduce the heating load, keep noise out, and increase occupant comfort. Replacing the HVAC system will add 25 years to the mechanical system functionality for the facility (normal life span for a new HVAC system).

These systems have undergone regularly scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessing for the need to retrofit space, penetrations, electrical, and mechanical systems in compliance with current energy, building, and state codes. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The project is funded 100% with federally reimbursed funds from the National Guard with no state match requirement. The total cost of the project is \$200,000

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

OFM

245 - Military Department

Capital Project Request

2021-23 Biennium

Project Number: 40000036

Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000049

SubProject Title: Roof Replacement & HVAC Replacement-Camp Murray 51

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the roof and the HVAC systems that are scheduled to be removed per the end of their expected life cycles.

Project Description

On building 51, the low slope portion of the roof is torch-down roofing, part of the original construction in 1997. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The heating, ventilation and cooling systems (HVAC) system is also at the end of its useful life.

Replacing the roof will protect assets in the building from leaking and extend the useful life of the facility. The project also includes replacing the HVAC systems as scheduled per their expected life cycles. This replacement will avoid a critical system failure, which would cost considerably more for emergency repairs.

Re-roofing the low slope portion of the building, repairing splitting joists and replacing flashing, as required, will prevent water intrusion into the building. Adding insulation as appropriate will reduce the heating load, keep noise out, and increase occupant comfort. Replacing the HVAC system will add 25 years to the mechanical system functionality for the facility (normal life span for a new HVAC system).

These systems have undergone regularly scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessing for the need to retrofit space, penetrations, electrical, and mechanical systems in compliance with current energy, building, and state codes. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The project is funded 100% with federally reimbursed funds from the National Guard with no state match requirement. The total cost of the project is \$200,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

OFM**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Project Number: 40000036
 Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000052
 SubProject Title: Flag Poles Replacement-Camp Murray Parade Field

Starting Fiscal Year: 2020
 Project Class: Preservation
 Agency Priority: 5

Project Summary

This project includes repair or replacement of damaged flagpoles and installation of concrete bases for all flagpoles on the Camp Murray Parade Field.

Project Description

The Parade Field at Camp Murray is used for many events at the local and state level such as change of command ceremonies, regional training sessions, and National Guard outreach events. The Parade Field has flagpoles for all 50 states and the national flag. Several of the fiberglass flagpoles are broken or damaged at the base from windstorms and normal wear and tear. Modern materials and construction techniques offer stronger, more durable alternatives to the current flagpoles.

The project is funded with 100% federally reimbursed funds from the National Guard with no state match requirement. The project will include replacement or repair of flagpoles that are damaged and installation of concrete bases for all flagpoles to provide reinforced stability and to reduce future repair costs and labor hours.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

SubProject Number: 40000054
 SubProject Title: Roof Replacement-JBLM 3106

OFM

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000036
 Project Title: Minor Works Preservation 2019-21 Biennium

SubProjects

SubProject Number: 40000054

SubProject Title: **Roof Replacement-JBLM 3106**

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project will repair the damaged roof portion of building 3106 on Joint Base Lewis-McChord, including additional flashing and insulation as appropriate.

Project Description

A severe storm in Mid-February 2018 caused extensive damage to the roof at building 3106. Repairs are necessary, as portions of the roof blew away during the storm. Repair of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition, and correct placement of rooftop equipment, is ideal for functionality and efficiency and will mitigate future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling. The project cost is \$550,000 and is 100% funded with federally reimbursed funds from the National Guard with no state match requirement.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000036	40000036
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department Capital Project Request 2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:13PM

Project Number: 40000051

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the heating, ventilation and cooling (HVAC) systems of building 20B on Camp Murray, as scheduled per its normal life cycle.

Project Description

Building 20B has four roof-mounted heat pumps and several split systems. All are approaching the end of their useful life. This project will replace the HVAC systems and avoid a critical system failure, which would cost considerably more in labor and repair costs. Replacement of the four roof-mounted heat pumps would help improve HVAC ventilation, which is defined as exchanging or replacing air in any space to provide high indoor air quality which involves temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases. Ventilation removes unpleasant smells and excessive moisture, introduces outside air, keeps interior building air circulating, and prevents stagnation of the interior air.

These systems have undergone regular scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessment for the need to retrofit space, penetrations, and electrical and mechanical systems in compliance with current energy, building, and state codes.

The project cost is \$300,000 and does not qualify for federal funds.

Project Type

Facility Preservation (Minor Works)

Health, Safety and Code Requirements (Minor Works)

Infrastructure Preservation (Minor Works)

Program (Minor Works)

Operating Impacts

No Operating Impact

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000051	40000051
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget

User Id

*

All User Ids

245 - Military Department Capital Project Request 2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:14PM

Project Number: 40000046

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project renovates the locker rooms, showers and restrooms of building 33 on Camp Murray with new plumbing fixtures, partitions, water conservation valves, and flooring.

Project Description

Building 33 was constructed in the 1950s. The existing locker rooms, showers and restrooms in the building are too small and the plumbing and finishes have not been updated since the initial construction. Previous remodels of the building have left dead-end hallways and other underutilized space. The fitness center, locker rooms, and restrooms are used by personnel across Camp Murray, not just the occupants of building 33.

The project includes the design and construction of a new layout for the locker rooms, showers and restrooms with new plumbing fixtures, partitions, water conservation valves, and flooring. The alternative of not completing the project results in ongoing repairs of old, outdated, and failing equipment that lacks modern water conservation features.

This project is funded with 50% (\$475,000) federally reimbursed funds from the National Guard and a 50% (\$475,000) state match. The total cost is \$950,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Facility Preservation (Minor Works)

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

None. The preservation projects preserve the existing facilities with existing purposes.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	0
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 1:14PM**Project Number:** 40000046**Project Title:** Minor Works Preservation 2019-21 Biennium**Operating Impacts****No Operating Impact****Narrative**

No operating impacts. Facility is being improved.

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000046	40000046
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department
Capital Project Request
2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 1:14PM**Project Number:** 40000053**Project Title:** Minor Works Preservation 2019-21 Biennium**Description****Starting Fiscal Year:** 2020**Project Class:** Preservation**Agency Priority:** 5**Project Summary**

This Grandview Readiness Center project includes re-roofing the flat roof portion of the building, including flashing and additional insulation as required.

Project Description

The flat roof portion of the Grandview Readiness Center is the original single-ply roofing and part of the original construction in 1994. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The parapet walls need to be replaced with new metal cap flashings.

Replacement of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition and correct placement of rooftop equipment, is ideal for functionality and efficiency and will mitigate future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling.

The project cost is \$700,000 and is 50% (\$350,000) funded with federally reimbursed funds from the National Guard with a 50% (\$350,000) state match requirement.

Location**City:** Grandview**County:** Yakima**Legislative District:** 015**Project Type**

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts**No Operating Impact**

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000053	40000053
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget

User Id

*

All User Ids

245 - Military Department Capital Project Request 2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:15PM

Project Number: 40000142

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project will replace the heating, ventilation and cooling (HVAC) systems in building 15 on Camp Murray, as scheduled per their normal life cycles.

Project Description

Building 15 has four roof-mounted heat pumps and several split systems. All are approaching the end of their useful life. This project will replace the HVAC systems and avoid a critical system failure, which would cost considerably more in labor and repair costs. Replacement of the four roof-mounted heat pumps would help improve HVAC ventilation, which is defined as exchanging or replacing air in any space to provide high indoor air quality which involves temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases. Ventilation removes unpleasant smells and excessive moisture, introduces outside air, keeps interior building air circulating, and prevents stagnation of the interior air.

These systems have undergone regular scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessment for the need to retrofit space, penetrations, and electrical and mechanical systems in compliance with current energy, building, and state codes.

The project cost is \$300,000, supported with 50% (\$150,000) federally reimbursed funds from the National Guard. There is a 50% (\$150,000) state match requirement.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

Parameter

Entered As

Interpreted As

Biennium

2021-23

2021-23

Agency

245

245

Version

C1-A

C1-A

Project Classification

*

All Project Classifications

Capital Project Number

40000142

40000142

Sort Order

Project Priority

Priority

Include Page Numbers

Y

Yes

For Word or Excel

Y

Y

User Group

Agency Budget

Agency Budget

User Id

*

All User Ids

245 - Military Department
Capital Project Request
2021-23 Biennium
*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:16PM

Project Number: 40000057

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

YTC 870 Roof Replacement: This project will re-roof the flat roof portion of building 870 at the Yakima Training Center, including flashing and additional insulation as required.

Project Description

The flat roof portion of building 870 is the original single-ply roofing, part of the original construction in 1994. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The parapet walls need to be replaced with new metal cap flashings.

Replacement of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition and correct placement of rooftop equipment, is ideal for functionality and efficiency and will mitigate future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling.

The project cost is \$300,000 and is 75% (\$225,000) funded with federally reimbursed funds from the National Guard with a 25% (\$75,000) state match requirement.

Operating Impacts

No Operating Impact

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000057	40000057
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:16PM

Project Number: 40000047

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the roof of the low slope portion of building 44 on Camp Murray, including flashing and additional insulation as required.

Project Description

On building 44, the low slope portion of the roof is torch-down roofing, which was part of the original construction in 1997. The roof has reached its useful life and has damages on the membrane and splitting joints. The parapet walls need to be replaced with new metal cap flashings.

Replacement of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition and correct placement of rooftop equipment, is ideal for functionality and efficiency, avoiding future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling.

The project cost is \$140,000 and is 100% funded with federally reimbursed funds from the National Guard with no state match requirement.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

Parameter

Entered As

Interpreted As

Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000047	40000047
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget

User Id

*

All User Ids

245 - Military Department
Capital Project Request
2021-23 Biennium
*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:17PM

Project Number: 40000048

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the roof and the heating, ventilation and cooling systems of building 50 on Camp Murray as scheduled per their expected life cycles.

Project Description

On building 50, the low slope portion of the roof is torch-down roofing, part of the original construction in 1997. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The heating, ventilation and cooling systems (HVAC) system is also at the end of its useful life.

Replacing the roof will protect assets in the building from leaking and extend the useful life of the facility. The project also includes replacing the HVAC systems as scheduled per their expected life cycles. This replacement will avoid a critical system failure, which would cost considerably more for emergency repairs.

Re-roofing the low slope portion of the building, repairing splitting joists and replacing flashing, as required, will prevent water intrusion into the building. Adding insulation as appropriate will reduce the heating load, keep noise out, and increase occupant comfort. Replacing the HVAC system will add 25 years to the mechanical system functionality for the facility (normal life span for a new HVAC system).

These systems have undergone regularly scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessing for the need to retrofit space, penetrations, electrical, and mechanical systems in compliance with current energy, building, and state codes. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The project is funded 100% with federally reimbursed funds from the National Guard with no state match requirement. The total cost of the project is \$200,000

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245

Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000048	40000048
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department
Capital Project Request
2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:18PM

Project Number: 40000049

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project replaces the roof and the HVAC systems that are scheduled to be removed per the end of their expected life cycles.

Project Description

On building 51, the low slope portion of the roof is torch-down roofing, part of the original construction in 1997. The roof has reached the end of its useful life and has damages on the membrane and splitting joints. The heating, ventilation and cooling systems (HVAC) system is also at the end of its useful life.

Replacing the roof will protect assets in the building from leaking and extend the useful life of the facility. The project also includes replacing the HVAC systems as scheduled per their expected life cycles. This replacement will avoid a critical system failure, which would cost considerably more for emergency repairs.

Re-roofing the low slope portion of the building, repairing splitting joists and replacing flashing, as required, will prevent water intrusion into the building. Adding insulation as appropriate will reduce the heating load, keep noise out, and increase occupant comfort. Replacing the HVAC system will add 25 years to the mechanical system functionality for the facility (normal life span for a new HVAC system).

These systems have undergone regularly scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts or spend limited maintenance mechanic time to troubleshoot and repair these systems. The project includes assessing for the need to retrofit space, penetrations, electrical, and mechanical systems in compliance with current energy, building, and state codes. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

The project is funded 100% with federally reimbursed funds from the National Guard with no state match requirement. The total cost of the project is \$200,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245

Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000049	40000049
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:19PM

Project Number: 40000052

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project includes repair or replacement of damaged flagpoles and installation of concrete bases for all flagpoles on the Camp Murray Parade Field.

Project Description

The Parade Field at Camp Murray is used for many events at the local and state level such as change of command ceremonies, regional training sessions, and National Guard outreach events. The Parade Field has flagpoles for all 50 states and the national flag. Several of the fiberglass flagpoles are broken or damaged at the base from windstorms and normal wear and tear. Modern materials and construction techniques offer stronger, more durable alternatives to the current flagpoles.

The project is funded with 100% federally reimbursed funds from the National Guard with no state match requirement. The project will include replacement or repair of flagpoles that are damaged and installation of concrete bases for all flagpoles to provide reinforced stability and to reduce future repair costs and labor hours.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts**No Operating Impact****Parameter****Entered As****Interpreted As**

Biennium

2021-23

2021-23

Agency

245

245

Version

C1-A

C1-A

Project Classification

*

All Project Classifications

Capital Project Number

40000052

40000052

Sort Order

Project Priority

Priority

Include Page Numbers

Y

Yes

For Word or Excel

Y

Y

User Group

Agency Budget

Agency Budget

User Id

*

All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 1:20PM

Project Number: 40000054

Project Title: Minor Works Preservation 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Preservation

Agency Priority: 5

Project Summary

This project will repair the damaged roof portion of building 3106 on Joint Base Lewis-McChord, including additional flashing and insulation as appropriate.

Project Description

A severe storm in Mid-February 2018 caused extensive damage to the roof at building 3106. Repairs are necessary, as portions of the roof blew away during the storm. Repair of the roof will protect assets in the building from water leaks and extend the useful life of the facility. Combining the roof repair, flashing replacement, insulation addition, and correct placement of rooftop equipment, is ideal for functionality and efficiency and will mitigate future damages to the facility. Rooftop equipment includes but is not limited to heating, ventilation and cooling equipment, communication equipment, packaged units, compressors, ducting, antennae, satellite dishes, security cameras, lighting assemblies, and a variety of associated piping and cabling. The project cost is \$550,000 and is 100% funded with federally reimbursed funds from the National Guard with no state match requirement.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Facility Preservation (Minor Works)

Growth Management impacts

None

Operating Impacts**No Operating Impact****Parameter****Entered As****Interpreted As**

Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000054	40000054
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	Y	Y
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids



WASHINGTON MILITARY DEPARTMENT

PROGRAM PROJECTS

"Safe, Secure, Ready, and Resilient Washington State"

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:40PM

Project Number: 30000808

Project Title: Tri Cities Readiness Center

Description

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 1

Project Summary

Reappropriation funding is requested for the construction of the Richland (Tri-Cities) Readiness Center. The federal Continuing Resolutions delayed federal funding and the subsequent pandemic further delayed advertising of the project. The project is being procured in a Design-Build method. Proposals were received August 7, 2020 with award on September 17, 2020. The readiness center will support continuing Military Department operations, training and Stryker Brigade unit transformation. This multi-storied facility will replace the aging and inefficient Pasco Readiness Center, built in 1955.

Project Description

The Pasco Readiness Center is old, inefficient, and well past its expected life cycle of 25 years. It is also too small to meet space and force protection requirements. Functionally inadequate, it cannot be economically renovated or altered to meet current building codes or required support services. Continuous failures require scarce minor works dollars and an inordinate amount of maintenance. Furthermore, the facility does not have the administrative space or parking required by the transitioning Washington National Guard units stationed at the facility. The new facility will take advantage of co-location and provide required parking and training space.

The Washington Military Department has purchased a 40-acre parcel within Richland city limits. Proposals for the Design-Build procurement were received August 7, 2020 with award on September 17, 2020. The project is funded with 70% of funds federally reimbursed by the National Guard Bureau (NGB) and a 30% state match requirement.

This new Readiness Center will replace the aging and inefficient Pasco Readiness Center. The new facility will be strategically placed where the Washington Army National Guard has room for future growth, possible co-location of other state agencies and appropriate Anti-Terrorism/Force Protection (AT/FP) measures as required by the NGB. The new location should be accessible to major transportation hubs and give the Washington Army National Guard the ability to react efficiently to any disaster or need. This new modern facility will support continuing operations, training and unit transformation, and will provide administrative areas, training classrooms, secure storage, sanitary and locker rooms, food preparation and large assembly space and privately owned and military vehicle parking. This project is to be designed to the "Leadership in Energy and Environmental Design (LEED) Silver" rating, and numerous areas (classrooms, assembly hall, showers, etc.) will be available for public use. This project follows the strategies set forth in the Readiness Center Comprehensive Stationing Plan ("Maker's Study") and the Departments "Readiness Center Assessment". After the facility is constructed the current Pasco Armory will be divested.

This project supports three of the strategic goals of the department: 1) Enhanced Preparedness, 2) Modernization and 3) Efficiency and Effectiveness. Our primary mission is to provide for the safety of Washington citizens during natural and man-made disasters. We need modern facilities in which to keep our units trained and proficient in the many tasks levied upon them. In addition, state goals of organization excellence will be enhanced with a modern LEED certified facility. Current units scheduled to be assigned to the new facility are the WA Army National Guard B Company 1st Battalion 161st Infantry Regiment and 1st Detachment 181st Brigade Support Battalion units.

Location

City: Richland

County: Benton

Legislative District: 008

Project Type

New Facilities/Additions (Major Projects)

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:40PM

Project Number: 30000808

Project Title: Tri Cities Readiness Center

Description

Growth Management impacts

Construction of a National Guard Readiness Center is compatible with Growth Management. Existing infrastructure in the area is enough for the facility including roads. Since weekday traffic for this facility will be limited to a small number of full-time staff and the peak building occupancy will be on drill weekends, there should be little or no impact to the local area.

New Facility: Yes

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	11,900,000	26,610	16,850	11,856,540	
057-1	State Bldg Constr-State	4,715,141	909,162	18,313	3,787,666	
364-1	Military Dep Cap Act-State	795,559	795,559			
	Total	17,410,700	1,731,331	35,163	15,644,206	0

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
057-1 State Bldg Constr-State				
364-1 Military Dep Cap Act-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000808	30000808
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:57PM

Project Number: 40000043

Project Title: Modular Classroom Replacement-Bremerton WYA

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 2

Project Summary

This funding request is to replace the old portable classrooms that serve high school aged Cadets most in need of educational justice, with traditionally constructed classrooms on the Washington Youth Academy campus. This replacement is vital to protect the lives and safety of the cadets at the Washington Youth Academy.

Project Description**Background:**

The Washington Youth Academy (WYA) portable classrooms (1202 & 1204 Carver St. W., Bremerton) are becoming safety hazards to Cadet and staff alike. These buildings were constructed in 1986 and have undergone over 34 years of use. For an unknown amount of time though, they were vacant and placed in a storage area most likely minimally maintained. When the WYA was preparing to open in 2009, these classrooms were again put into service, with an investment of \$126,008.52 in capital funds in 2008 to restore them to an operational condition so Academy staff could conduct classes for its 228 to 330 Cadets annually. The classrooms are integral to the Academy's ability to serve Cadets – 16-18-year-old youth from all over the state who are most in need of educational justice. These are youth at-risk or already dropped out of high school, approximately 67 percent identify as male and 33 percent as female, with an average 47 percent from households reporting less than \$35,000 annual income. After over 11 years of daily use at the WYA, the portable classrooms have long exceeded their lifecycle and are beyond repairable status. Evidence shows that the particle flooring is failing. On one documented occasion in 2018, an approximate 1'x2' portion of flooring broke beneath a Cadet's feet. The Cadet would have fallen through the floor 3-4 feet to the ground below if a nearby Cadet hadn't caught him. The WYA has at least two other reports of underlayment failures although they are not as extensive as the one noted. Washington Military Department Maintenance staff later inspected the flooring and determined, as a minimum, it should either be completely replaced or replace both classrooms. These portables have also received extensive repairs to the roof membranes in 2012 (approx. \$22,000 in repairs) due to leaks causing water damage to trusses, ceiling tiles, and carpet squares. Additional repairs were made to outside soffits in 2013 (\$13,000). The three roof-mounted HVAC units have also failed during the past five years multiple times resulting in over \$15,000 in repair costs.

Project History:

The Washington Military Department initially requested to completely replace the existing portable classrooms and purchase new ones. A Minor Works project was approved, and the process started, but the resulting bid process in 2019 was not competitive with only one bid returned at over \$900,000. It was determined that market prices for portables was well over initial estimates for the project, and the agency attempted a new strategy to construct "stick-built" classrooms, anticipating a more competitive bidding process and lower cost for the replacement. Seven bids were received ranging from \$1,005,000 to \$1,565,383. With the minimal difference in cost between replacing portables with new ones versus a traditionally constructed buildings, with the latter exceeding the portable building lifecycle exponentially, it is preferable for safety and fiscal reasons to proceed with a capital project to construct new classrooms rather than purchase portable structures. With the price for the project now projected to exceed \$1 million, replacing the existing portables with stick build classrooms now qualifies as a major capital project. Due to potential safety hazards to Cadet and staff and estimated future repair costs to flooring, HVAC, and plumbing in the current portable classrooms, cost analyses concludes that complete replacement is the most fiscally responsible solution. This project should not be phased due to safety reasons.

Project Overview:

Completely replacing the old WYA portable classrooms with a traditional "stick-built" structure would ensure that teachers and staff have safe and reliable facilities with which to engage Cadets in their growth and improvement in their resiliency skills and academic progress. In the long-term, Construction and Facilities Management Office's (CFMO) Maintenance Mechanics (already being stretched thin) would have greater flexibility in performing repair tasks on other Military Department's buildings throughout the state, thereby allowing for the reprogramming of labor and equipment to other competing necessities. Since these classrooms are already 34 years old, the new classroom buildings would be built to current building code standards further increasing safety. Moreover, new "stick-built" classrooms also allow for the increased adaptation of ever evolving communications technology and remote learning.

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:57PM

Project Number: 40000043

Project Title: Modular Classroom Replacement-Bremerton WYA

Description

If funding is not permitted for replacement, the Military Department maintenance team will likely spend more funds to guarantee staff and Cadet safety given its already limited budget and various other priorities. This also further jeopardizes the Department from a liability standpoint in the event that staff or Cadet are injured while performing their duties in an antiquated and potentially condemnable structure. As noted, a Cadet could have potentially been harmed from the already rotting flooring as could other staff and/or Cadets. Continued repair costs will eventually exceed the buildings' value versus the investment of purchasing a new building. The loss or inability to utilize the space and shelter provided by the classrooms footprint would complicate the Academy's ability to initiate its Pandemic Residential Operations plan for protecting and safeguarding Cadets, who live on campus, and staff with adequate social distancing, even during those times when teachers are delivering video instruction via the internet to screens where Cadets are seated.

Project Alternatives:

Alternative solutions involve complete replacement of underlayment flooring. Estimated minimum cost is approximately \$100,000 for flooring replacement. Prior to the COVID-19 pandemic, work was planned to occur within a four-week period during the mid-June to July class break of 2019 so as to not impede classroom installation. WYA Class 2-2020, scheduled to start in full-residential operations on July 20, 2020, was effectively cancelled and online operations were adopted for Cadets unable to complete online during the January – June cohort. Unfortunately, Job Order Contract vendors could not guarantee completion by the original suspense date. While time is now available for a short window between August and December, the estimated eventual complete replacement of the three roof mounted HVAC units (\$15,000 per unit) would add an additional \$45,000 to the already necessary renovations to these buildings. Habitual plumbing repairs will further increase life-cycle cost by an estimated \$5,000 over the next 1-2 years. These expected costs total \$150,000, and the State already allocated over \$120,000 to renovate the buildings in 2008. Combined, these figures total \$270,000, which is more than the current fair market value of these portables. Again, complete replacement of the classrooms makes sense and ultimately is more cost effective over the long term. The cost for replacement with new portable buildings is \$952,927, with recent bids for a more reliable "stick-built" constructed replacement ranging from \$1,005,000 to \$1,565,383, an average difference of only \$332,265 for structures that are safer, more energy-efficient and cost-efficient to maintain, and exponentially longer lasting.

Project Impacts:

Since the National Guard Youth Challenge Program is only one of its kind currently in Washington, it services Cadets and parents from all across the state. Project impacts are predominantly on the WYA's Cadets and staff. However, Cadets' parents attending open house demonstrations and class orientations; certain vendors providing services to Cadets (lice screening for new Cadets); along with other stakeholders (Cadet volunteer mentors, WYA Boosters, foundation board members, legislators, guest speakers/visitors) all use or hold meetings in these classrooms. Because of the age of the portables, they do not present a professional appearance, pose an ever-increasing safety risk (liability), and become an additional drain on program resources in terms of maintenance costs.

Project Funding:

The National Guard Youth Challenge Master Cooperative Agreement does not allow the use of federal funds for new construction. This request is for 100% state funding for design and construction of two new classroom buildings with a total project cost of \$1,600,000.

Does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency? If yes, please elaborate.

Yes. Providing funding to replace the WYA portable classrooms will improve energy savings. Stricter building codes are in effect now than when the current structures were built in 1986. Consequently, they will consume less electricity due to improvements in lighting, insulation, and HVAC improvements thereby saving in utility costs.

Is there additional information you would like decision makers to know when evaluating this request?

The current portable classrooms were originally designed and built to accommodate the needs of elementary school-aged students over 36 years ago (before computers were even used in classrooms). They were not designed for high school aged youth that the WYA serves.

Location

City: Bremerton

County: Kitsap

Legislative District: 035

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 3:57PM

Project Number: 40000043

Project Title: Modular Classroom Replacement-Bremerton WYA

Description

Project Type

New Facilities/Additions (Major Projects)

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

None. The preservation projects preserve the existing facilities with existing purposes.

New Facility: Yes

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,600,000				1,600,000
	Total	1,600,000	0	0	0	1,600,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Narrative

No operating impacts. Facility is being improved.

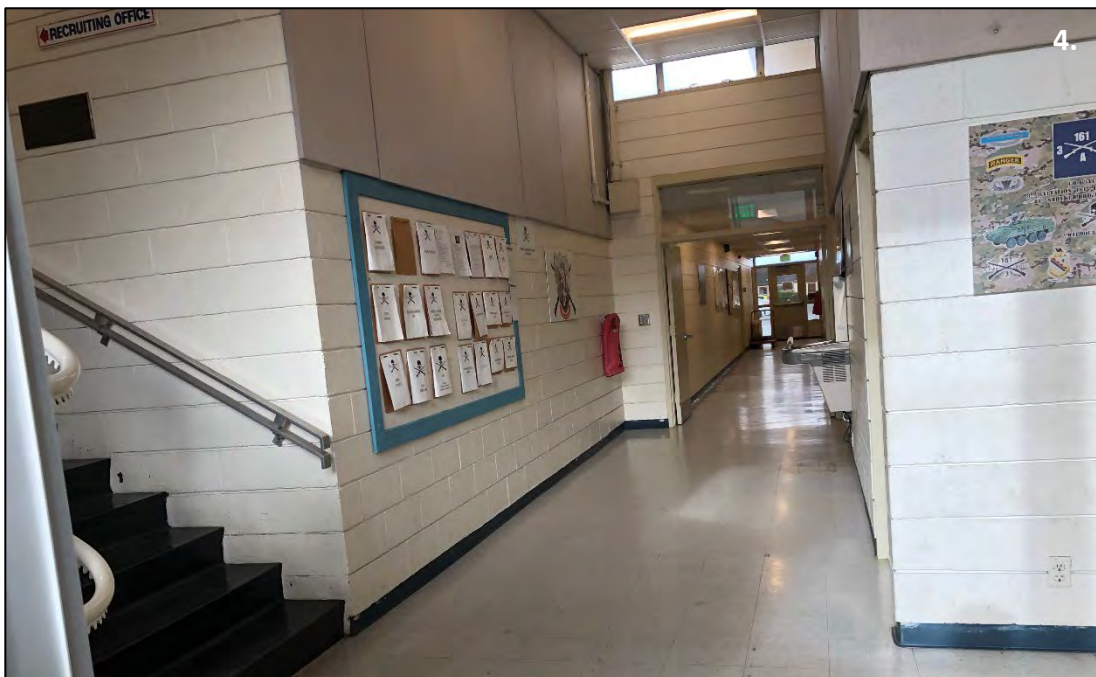
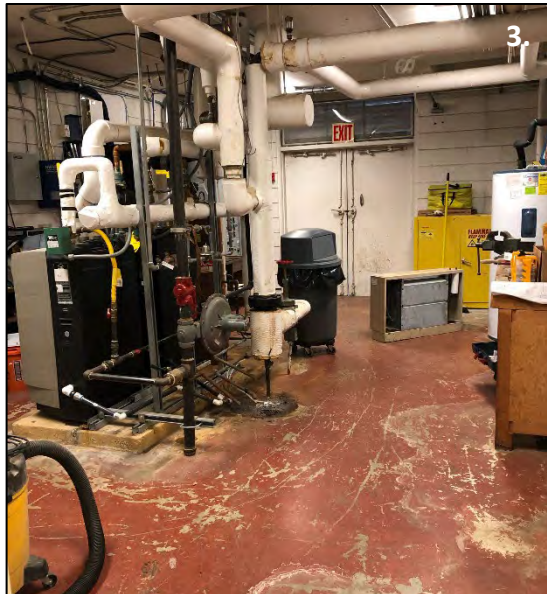
Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000043	40000043
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

ANACORTES READINESS CENTER



The National Guard Armory in Anacortes was constructed in 1963 and is now outdated and in need of repairs.

1. The Armory was designed with a split-level configuration, and the south wing is currently inaccessible from the ground floor. Repairing the non-functional lift chair will help bring the facility into compliance with the Americans With Disabilities Act by making all parts of the building accessible.

2. and 3. The HVAC, electrical, and IT systems need significant upgrades to increase efficiency and meet the requirements of current building codes.

4. The seismic weakness of the structure and lack of modern fire protection measures are risks to life and safety of building occupants.

5. The facility lacks enough space to accommodate the current training and administrative needs of the assigned units. Spaces that were designed as classrooms have been converted to administrative offices, leaving little space available for simulation training.

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 4:20PM

Project Number: 40000004

Project Title: Anacortes Readiness Center Major Renovation

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 4

Project Summary

The project will renovate and restore the antiquated and outdated 1963 constructed Anacortes Armory and add an additional 4,000 square feet of functional area. The project will improve all major areas of the facility such as offices, classrooms, kitchen, restrooms, showers, Heating, Ventilation and Air Conditioning (HVAC), electrical system, I/T and facilities infrastructures. Renovations will bring this facility into compliance with state building codes, the Americans with Disabilities Act (ADA), and National Guard requirements that will allow the facility to be reclassified as a readiness center. The restoration and improvements to the facility will support the mission of the National Guard and state emergency response actions following catastrophic events like earthquakes, floods, wildfire or other natural or human-caused disasters. This request is for the design and construction phase of the project. The predesign is currently being finalized.

Project Description**Background:**

The Anacortes Armory was constructed in 1963 with a total area of about 14,965 square feet. Originally designed for a 42-member unit detachment/platoon, the capacity requirement has increased to a 151-member Company due to closure of the Bellingham armory and transformation of the 81st Stryker Brigade Combat Team (SBCT). The armory lacks the modern features and attributes required for it to be considered a Readiness Center such as classrooms, distance learning centers, locker rooms, physical fitness area, kitchen, weapons and protective masks storage, enclosed areas to support training with simulation, and operator-level maintenance shop for assigned equipment. It is outdated, antiquated, and it needs significant improvements. Per national standards, a readiness center supporting 151 personnel is authorized a total of 37,198 gross square feet. Currently, Anacortes is one of the smallest facilities in the Washington National Guard inventory.

Issues identified during predesign include:

- Female Accommodations: At the time of construction, there were no female soldiers serving in the Washington Army National Guard and as a result, the facility has no dedicated female restrooms, showers or locker rooms.
- Training & Administrative Space: Due to the 300% personnel increase since 1963, the facility lacks adequate office and classroom space to accommodate unit training. Spaces originally designed as small classrooms have been converted into administrative offices which leaves little space available for technology-rich simulation-based training that is essential for maintaining mission readiness.
- Weapons Vault & Storage Space: The interior vault and supply room is inadequate for the amount and type of weapons and other sensitive equipment assigned to the unit. Several unheated Conex units (modular vaults) were installed at the site as a temporary solution, but these facilities do not provide the proper long-term storage environment and security required to avoid deterioration and/or theft of high cost equipment.
- HVAC, Electrical & IT Systems: The heating ventilation and cooling (HVAC), electrical and I/T systems need significant upgrades to increase efficiency and meet current building codes.
- Life Safety Risks: The seismic weakness of the structure and lack of adequate fire protection creates a life safety risk.
- Accessibility Standards: The Armory was designed with a split-level configuration. The south wing containing office and small classroom space does not meet accessibility requirements from the main ground floor.

Project Request:

The proposed project will add approximately 4,000 square feet and renovate 40% of the facility. This will create spaces for female locker rooms, restrooms and showers, unit classrooms and storage areas, and placement of vault weapons storage inside for proper security of weapons and other sensitive equipment. The renovation of functional areas such as offices, classrooms, kitchen, supply and storage areas will bring the facility into compliance with the attributes of a modern readiness center and building code requirements. The project will add a chair lift near the front entry and renovate restrooms and showers to meet ADA standards.

The department is unable to further divide the project into smaller phases due to logistics and cost issues associated with re-stationing all units and their equipment during each phase. Phasing the project would cause a massive cost increase in

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Report Number: CBS002

Date Run: 9/11/2020 4:20PM

Project Number: 40000004

Project Title: Anacortes Readiness Center Major Renovation

Description

everyday operations and other functional disruptions.

This project will result in an expanded and modernized facility that meets ADA and building code requirements. The enhanced facility will provide adequate training and secure storage space, ultimately improving mission preparedness and disaster response effectiveness.

Project Alternatives:

Five courses of action were explored during predesign:

1. Do nothing
2. Expand 4,000 square feet and renovate 40% of the facility
3. Expand 4,000 square feet and renovate the entire facility
4. Construct a new facility on the same site
5. Lease equivalent off-site space

The first option of do nothing would result in:

- continued non-compliance with ADA and building code standards,
- significant risk to life and safety with seismic and fire suppression issues,
- continued disservice to the female members of the National Guard by ignoring their basic need for private restrooms and showers,
- continued lack of training space, administration office and weapons and equipment storage space to adequately support the unit, and
- ongoing high operational costs to maintain aging electrical, IT and HVAC systems.

The failing facility and equipment within will continue to degrade to the point of total failure and reduce training throughput significantly, thus reducing the readiness of the Washington Army National Guard to meet its federal combat mission and state support mission. In the event of an emergency, the readiness center and staff must be prepared to respond. This facility and site are heavily used and will increase in usage during a state emergency. Failure to address these known issues will keep this facility at a "significant risk" or "critical" status per the Army Focus Risk Model.

The second course of action is the proposed project. While the third course of action was the initial the preferred alternative, current funding restrictions required rescoping of the project. The cost of full renovation and the addition of 4,000 square feet is over \$10 million and would require a substantial state match over the 50% as federal funding is currently at \$3,520,445.

The fourth option of constructing a new facility would mean increased cost and a prolonged timeline. A new facility would require either acquisition of new land or demolition of the current facility, which would require a lengthy process and competition for federal military construction funds and required state match. This project as proposed will extend the useful life of the readiness center by 25 years with regular maintenance, which is enough time to allow for the long-term planning required to replace the facility.

Due to the unique mission and security requirements of the National Guard, leasing a facility would be the highest life-cycle cost alternative and is not a viable option.

Project Impacts:

As the most northern National Guard facility along the I-5 corridor, the Anacortes Armory is a key strategic location for domestic operational support, a regional emergency operations center, and recruiting efforts in the northwestern counties of Washington State. This project supports the 25-year Facilities Master Plan and three of our agency strategic goals: 1) Enhanced Preparedness, 2) Modernization and 3) Efficiency & Effectiveness. The improved facility will allow the Alpha Company 3rd Battalion 161st Infantry Regiment of the 81st SBCT to maintain a high level of readiness to support local, state and federal missions while supporting the local community during events.

In addition, the improved energy efficient components of the project will in turn reduce the generator capacity requirements to supply electricity in the event of an outage.

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 4:20PM

Project Number: 40000004

Project Title: Anacortes Readiness Center Major Renovation

Description**Project Funding:**

The originally proposed project prior to predesign was planned with a 50% state and 50% federal split funding for the renovation component, while the addition/construction was planned with a 25% state and 75% federal split funding. The maximum amount of federally reimbursed funding available for the project is currently \$3,520,445.

As result of the findings identified during predesign and rescoping of the project to address mandatory issues while keeping costs as low as possible, the total cost of the project has been adjusted to \$7,349,000 (escalated to mid-point of construction) with a total state share of \$3,828,555.

Federally reimbursed funds will come from the National Guard Sustainment, Restoration & Modernization (SRM) program and is part of federal FY2021 project submission for design and FY 2022 for construction. While all opportunities to obtain additional funding will be sought, the department does not want to risk losing the current federal funding request awaiting approval or delaying the project by two years or more by resubmitting a new funding request to National Guard Bureau.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

The project seeks to comply with state and federal laws and building codes regarding energy efficiency. This includes an investment to use photovoltaic (solar) and geothermal renewable energy sources. The project also seeks to update the HVAC systems and waste management for the facility for increased efficiency.

Location

City: Anacortes

County: Skagit

Legislative District: 040

Project Type

New Facilities/Additions (Major Projects)

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

None, the project is within the existing facility to support the same purpose.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	3,551,000				3,551,000
057-1	State Bldg Constr-State	3,626,000		75,000		3,551,000
364-1	Military Dep Cap Act-State	75,000		75,000		
	Total	7,252,000	0	150,000	0	7,102,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
057-1 State Bldg Constr-State				
364-1 Military Dep Cap Act-State				

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 4:20PM

Project Number: 40000004

Project Title: Anacortes Readiness Center Major Renovation

Funding

Total

0

0

0

0

Operating Impacts

No Operating Impact

Narrative

There are no significant impacts on the operating budget.

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000004	40000004
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids



SNOHOMISH ARMORY



Facilities at the Snohomish Armory (pictured above) are outdated and need repairs to extend their useful life. 1. A broken window is patched with cardboard, while the existing glass is damaged and stained. Faulty seals are present on exterior ducts and holes are present on the exterior wall as well. 2. Updates are required to make the building interior more inviting and presentable to potential recruits. 3. Space allotted for administrative tasks is cramped, and the facilities need new paint, HVAC updates, and general repairs and upkeep. 4. Workout equipment has no dedicated space and is housed in storage areas, limiting opportunities for physical training.



Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 4:38PM

Project Number: 30000930

Project Title: Snohomish Readiness Center

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 5

Project Summary

This request is to fund the renovation and addition of 6,147 square feet at Snohomish Readiness Center, as well as demolition of several unrepairable outbuildings. This readiness center was constructed in 1955. The tenant improvements and alterations are crucial to meet current mission and training requirements.

Project Description

Background:

The Snohomish armory lacks all the features and attributes of a readiness center such as classrooms, distance learning centers, locker rooms, physical fitness area, kitchen, weapons, and protective masks storage, enclosed areas to support training with simulation and operator-level maintenance shop for assigned equipment. The 14,008 square foot Snohomish armory was built in 1955 and it is outdated, antiquated and needs significant improvements since it is past its useful life in terms of configuration, technology and finishes. The existing Snohomish Readiness Center is a 14,008 square foot facility that is heavily used during state emergencies. Current units assigned to the facility include the 176th Engineering Company Vertical Construction with ten fulltime employees and a drilling population of 106 (soldiers attending the one weekend a month Inactive Duty Training and two weeks annual training), and a Recruiting and Retention Battalion of three fulltime employees. The readiness center was built in 1955 and it is outdated and past its useful life in terms of configuration, technology and finishes. Several outbuildings are beyond repair and require demolition. The current configuration of space within the readiness center requires equipment and supplies to be stored in multiple locations scattered throughout the facility reducing the unit's readiness for emergency missions. The locker room is inadequate for the required number of lockers for the unit assigned. The facility needs substantial upgrades to reduce the energy consumption; current overhead costs are substantially high. The unpaved surface of the military equipment parking area has deteriorated and includes potholes, uneven surfaces and extensive cracking. In order to bring the facility up to compliance with current building codes and the Americans with Disabilities Act (ADA), renovation of many of the functional areas such as kitchen, restrooms, and showers is required as well as updates to interior finishes.

Project Overview:

This request will fund renovations of the facility's kitchen, restrooms, showers, administration offices for fulltime personnel, platoon rooms for drilling population and storage areas to meet operational needs and comply with ADA requirements. The renovations will add 6,147 square feet to expand the locker room accessibility and storage area capacity as required for operations. The facility renovations and addition will correct ADA deficiencies by creating an accessible approach and entrance, and address building code requirements by improving ventilation, adding exit lights, repairing uneven floors, and limited accessibility spaces. The renovation will also include replacement of outdated equipment, appliances, doors, and windows, which will make the facility more energy efficient. The military equipment parking and privately owned vehicle parking areas will be repaired and resurfaced. The unrepairable outbuildings will be demolished.

This project will extend the useful life of the Readiness Center by 25 years, which will allow time for the planning required to eventually replace the facility. A modern, fully functional facility improves the efficiency and effectiveness of our response to emergencies. The modernized facility will support the mission of the unit, state and local emergency response, and armory rental agreements from local community groups.

Design and construction are both expected to be completed within the 2021-23 biennium.

Project Alternatives:

The renovation and addition requested for the Snohomish Readiness Center is the most economical and sustainable option, extending its useful life. An alternative to this project is to construct a new facility at another location, which would require millions of state and federal funds. This alternative would require state funding to purchase land elsewhere, as well as state and federal funding to design and construct a new readiness center with security fencing and lighting, a military vehicle parking lot, electronic gate access, storage facility and a parking lot for personally owned vehicles. The federal funds procurement for new facilities requires state and national level competition through the Army National Guard Military Construction Infrastructure

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 4:38PM

Project Number: 30000930

Project Title: Snohomish Readiness Center

Description

Requirements Plan for future years with a historical success rate of only one project funded every three to six years, which means construction could not occur for at least 15-20 years.

If no action is taken, the building will continue to deteriorate and could become unusable beyond repair thus unable to fulfill the mission of the department and the Washington National Guard. Furthermore, the overhead costs will continue to be substantially high.

Project Impacts:

The Snohomish Readiness Center supports the 25-Year Facilities Master Plan as this facility serves as the WAARNG regional presence which is a strategic key during emergency responses and mission activation in Snohomish County, a significant growing economic hub within the State of Washington. The improved facility will allow the unit to maintain a high level of readiness for local, state, and federal missions while supporting the community during local events since the Snohomish RC is one of the only facilities in the city for large space availability. A modern cost-efficient facility will also improve the recruiting efforts of the WAARNG as the existing facility in its current state deters potential recruits.

Project Funding:

The project will be funded with the maximum amount of \$3,562,000 federal Unclassified Minor Military Construction (UMMC) funds authorized per site/per year for the construction project. The Snohomish Readiness Center is funded with a 25% state requirement and a 75% federal match by the National Guard Bureau.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

The project seeks to comply with state and federal laws and building codes regarding energy efficiency. An investment to use photovoltaic (solar) and geothermal renewable energy sources will be sought during renovations of the Snohomish Readiness Center.

Location

City: Snohomish

County: Snohomish

Legislative District: 044

Project Type

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

None, the project will add to the existing facility useful life and community use.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	3,562,000				3,562,000
057-1	State Bldg Constr-State	1,188,000				1,188,000
	Total	4,750,000	0	0	0	4,750,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	

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Report Number: CBS002

Date Run: 9/11/2020 4:38PM

Project Number: 30000930

Project Title: Snohomish Readiness Center

Funding

		Future Fiscal Periods			
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Schedule and Statistics

	<u>Start Date</u>	<u>End Date</u>
Pre-design		
Design	7/1/2021	6/1/2022
Construction	7/1/2022	6/1/2023

	<u>Total</u>
Gross Square Feet:	14,008
Usable Square Feet:	12,607
Efficiency:	90.0%
Escalated MACC Cost per Sq. Ft.:	233
Construction Type:	Armories
Is this a remodel?	Yes
A/E Fee Class:	B
A/E Fee Percentage:	12.26%

Cost Summary

	<u>Escalated Cost</u>	<u>% of Project</u>
Acquisition Costs Total	0	0.0%
Consultant Services		
Pre-Schematic Design Services	0	0.0%
Construction Documents	316,966	6.7%
Extra Services	317,775	6.7%
Other Services	146,850	3.1%
Design Services Contingency	76,861	1.6%
Consultant Services Total	826,347	17.4%
Maximum Allowable Construction Cost(MACC)	3,269,457	
Site work	0	0.0%
Related Project Costs	0	0.0%
Facility Construction	3,269,457	68.8%
GCCM Risk Contingency	0	0.0%
GCCM or Design Build Costs	0	0.0%

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 4:38PM

Project Number: 30000930

Project Title: Snohomish Readiness Center

Cost Summary

	<u>Escalated Cost</u>	<u>% of Project</u>
Construction Contracts		
Construction Contingencies	326,946	6.9%
Non Taxable Items	0	0.0%
Sales Tax	327,273	6.9%
Construction Contracts Total	3,923,675	82.6%
Equipment		
Equipment	0	0.0%
Non Taxable Items	0	0.0%
Sales Tax	0	0.0%
Equipment Total	0	0.0%
Art Work Total	0	0.0%
Other Costs Total	0	0.0%
Project Management Total	0	0.0%
Grand Total Escalated Costs	4,750,022	
Rounded Grand Total Escalated Costs	4,750,000	

Operating Impacts

No Operating Impact

Narrative

There are no significant impacts on the operating budget, because there are no changes to the number of State Maintenance FTEs working at this facility, and the building is being improved.

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000930	30000930
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids



JOINT FORCES HEADQUARTERS



Camp Murray's Building 1, seen above and in the main photo, is home to the office of the WMD Director/Adjutant General, as well as the senior leadership of the Washington National Guard.



Building 3 on Camp Murray is the location of the Joint Services Support (JSS) Directorate, and it is designed to be a one-stop shop for all Washington Guard veteran and family readiness services.



Several key support functions are housed in Building 33, including federal and state human resources, security, the Provost Marshall Office, the JFHQ Orderly Room, and recruiting/retention services.

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/13/2020 5:39PM

Project Number: 30000591

Project Title: Joint Force Readiness Center: Replacement

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 6

Project Summary

This project is the design and construction of a new Washington National Guard Joint Forces Headquarters (JFHQ) at Camp Murray, WA. The facility will consolidate the Washington Army National Guard (WAARNG), Washington Air National Guard (WAANG), and the Washington Military Department (MIL) headquarters functions into one location for a more unified working environment. The new facility will consolidate staff and operations from eight buildings into one. The capital project phases are scheduled for predesign study in the 2021-23 biennium with design and construction in the 2023-25 biennium.

Project Description

Background:

The WAARNG and WAANG headquarters functions, along with supporting state and federal finance and human resource functions, are housed in multiple facilities on Camp Murray; specifically, buildings 1, 9, 15, 21, 23, 25, 26, and 33. Many of the facilities were designed and built for National Guard operations 60 to 100 years ago. These facilities are failing in structure and functionality. The current facilities have inadequate space and configurations for the staff and work functions, requiring work units, divisions, and leadership to be dispersed across multiple floors and/or buildings. Due to the varied network security requirements from the Army National Guard, Air National Guard, and Washington State, daily operations are managed on three different technology platforms that do not interact, making cross collaboration with state and federal units more difficult. Even common communication methods such as email and SharePoint create everyday obstacles for our headquarters staff who are regularly responsible for working across state and federal functions. Therefore, in person communication is typically preferred for cross-functional collaboration, requiring staff to travel to other buildings on Camp Murray multiple times a day. Past Lean projects have highlighted the waste in several daily processes due to transport time and communication delays created by a dispersed headquarters administration.

The aging building systems are inefficient and create increased operational costs. The electrical, plumbing and structural components struggle to meet current building codes. Utility costs are exceptionally high due to inefficient building construction and outdated equipment. The buildings consist primarily of private office space, with little space available for cubicles, shared workspace, collaboration and meeting space, or other modern office environment amenities. Some of the buildings no longer comply with the Real Property Allowances for Military Facilities Standards due to a space deficit per required standard for the facility type code.

The facilities are lacking security measures necessary to meet the Anti-Terrorism Force Protection (AT/FP) requirements established by the National Guard Bureau (NGB). The existing headquarters (building 1) and nearby building 3 are too close to the perimeter fence, making them vulnerable to small arms fire from outside the exclusion zone. They are too close to a major railroad that is used to transport hazardous materials, and the high-speed train travels along the entire front of the facility. There is no stand-off for parking, and a creek flows under the facility not allowing for full barriers to be permanently installed. The pedestrian bridges that cross the creek are large enough for a large commercial vehicle to cross. Building 1 is a historically recognized building and therefore structural upgrades necessary to protect the mission and high-profile staff within the facility is extremely limited or prohibited.

Project Overview:

The WAARNG has been approved for the construction of a JFHQ building under the Department of Defense Future Year Development Plans for \$20 million of federal funds in federal fiscal year (FFY) 2024. The design and construction of an approximately 98,000 square foot JFHQ will co-locate the headquarters of the Washington Military Department, Army National Guard and Air National Guard. The facility will be built on state owned land at Camp Murray.

The following Military Department units will be consolidated into the new JFHQ:

- The Adjutant General, Assistant Adjutants General, State Enlisted Advisors and the Executive Management Team
- WAARNG Headquarters which consists of the Directorates for Personnel (G1), Intelligence, (G2), Operations (G3), Logistics (G4), Future Plans (G5), Information Management (G6); Federal Human Resources, US Property and Fiscal Officer (USPFO), Judge Advocate General's Office, Training Site Unit, State Chaplain and the Inspector General

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Report Number: CBS002

Date Run: 9/13/2020 5:39PM

Project Number: 30000591

Project Title: Joint Force Readiness Center: Replacement

Description

- WAANG Headquarters which consists of the key directorate personnel, 194th Wing and the Base Engineers Office.
- State Administration, including Finance, Human Resources, Communications, Information Technology, and the Legislative Affairs Office.
- Joint Operation Center

The request for this biennium is for the pre-design study for state fiscal year (SFY) 2022, design for SFY 2024, and construction funding request beginning in SFY 2025.

Project Alternatives:

It is projected that restoring and modernizing these 60 to 100-year-old buildings will cost almost the same or more than building a new one. Since the WA National Guard's mission is extremely unique and the State Emergency Operations Center is located on Camp Murray, leasing a building for a common facility elsewhere would create more problems and is not a viable option.

There are no other alternatives identified besides new construction, however, a pre-design study will determine the best alternatives based on the current conditions of the facilities and the requirements, which can be considered before the submission of the design and construction requirement in future biennia.

If the pre-design study is delayed or not funded, there is a risk of losing the federal funding in FFY 2024.

Project Impacts:

The Washington Military Department and Washington National Guard are dedicated to the mission of safeguarding lives, property and the economy of Washington State. By consolidating the headquarters and directorates of each command and support divisions, the department and National Guard will be able to conduct operations, recruiting and training, and emergency response more rapidly and efficiently through the synergies created in a co-located facility. Furthermore, the JFHQ will be a modern facility that will provide mission-ready space and functionalities for state and federal employees. Specifically, this project will impact the 407 personnel that will move out of the old and insufficient office buildings. Indirectly, the project will also impact the 757 full time personnel of the Washington Military Department, WAARNG, and WAANG that provides support to the State Emergency Operations Center, Washington Youth Academy and the more than 8,000 citizen soldiers and airmen statewide.

Washington residents and first responders across the state will benefit from an improved, coordinated command and administrative structure assisted by a facility designed specifically for present day missions. Response to emergencies and other operational requirements will be enhanced through closer coordination and synergy among different groups working in closer proximity.

This project will reduce long term costs by replacing multiple aging facilities with a modern and efficient facility thereby reducing overall costs to taxpayers. The new facility will be planned for Leadership in Energy and Environmental Design (LEED) SILVER certification, saving operating and maintenance costs compared to the existing space. Vacated buildings will be considered for other uses as they become available or demolished if non-historical and beyond repair. Due to a significant increase in facility square footage we will need to add two maintenance FTEs upon completion of the construction phase.

Project Funding:

There will be a 75% federal and 25% sharing on the design and construction of the base facility of the WAARNG which stands at 64.85% or 63,691 SQ FT, while state will fund design and construction of the incremental increase of sole use space for state functions such as finance, human resource, information technology, policy, and communications which stands at 29.45% or 28,924 SQ FT. On the other hand, WAANG will fund their sole use space of 5.7% or 5,600 SQ FT. The total footprint is for 407 personnel that will be housed in the JFHQ comprising of 104 fulltime state personnel (including TAG, ATAG), 75 fulltime federal employees, 22 fulltime Air Guard Technicians and Airmen, and 206 fulltime active guard reserve (AGR).

The total project cost is broken out by phase as:

Phase/Share	Pre-Design	Design	Construction	Total
State	\$75,000	\$2,070,000	\$18,000,000	\$20,145,000
Federal	\$225,000	\$2,415,000	\$21,000,000	\$23,640,000
Total	\$300,000	\$4,485,000	\$39,000,000	\$43,785,000

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Report Number: CBS002

Date Run: 9/13/2020 5:39PM

Project Number: 30000591

Project Title: Joint Force Readiness Center: Replacement

Description

The \$20.145 million state share represents the default 25% share requirement for the WAARNG footprint and the state personnel sole-use space in accordance with the National Guard Regulation on Military Construction Program Development and Execution. If state personnel were to remain in their respective buildings with the absence of federal personnel, those buildings would no longer qualify for federal support for any operational costs such as utilities and maintenance nor any sustainment, restoration, or modernization funding. Buildings vacated as a result of this project will be assessed for other space use requirement deficits at Camp Murray.

CBS Form Questions:

For IT-related costs: Does this project fund the development or acquisition of a new or enhanced software or hardware system or service?

The only information technology (IT) related costs are standard equipment and wiring installations in a new building for internet, telephone, and network connections. Details will be determined and finalized during the design process, at which time an IT addendum will be included if needed. All other IT questions are no.

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

The facility will be planned for Leadership in Energy and Environmental Design (LEED) SILVER certification, saving operating and maintenance costs over the other existing facilities. This includes an investment to use photovoltaic (solar) and geothermal renewable energy sources. An energy study will be documented during final design.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

Currently Army and Air Guard Headquarters functions along with supporting state and federal finance and human resource functions are housed in multiple facilities on Camp Murray. This facility will combine units at multiple locations into one facility.

New Facility: Yes

How does this fit in master plan

This project is number one on our Long Range Construction Plan.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	23,415,000				
057-1	State Bldg Constr-State	20,370,000				300,000
	Total	43,785,000	0	0	0	300,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal	23,415,000				
057-1	State Bldg Constr-State	20,070,000				
	Total	43,485,000	0	0	0	

Capital Project Request

2021-23 Biennium

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Report Number: CBS002

Date Run: 9/13/2020 5:39PM

Project Number: 30000591

Project Title: Joint Force Readiness Center: Replacement

Operating Impacts

Total one time start up and ongoing operating costs

Acct Code	Account Title	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FTE	Full Time Employee	2.0	2.0	2.0	2.0	2.0
001-1	General Fund-State	91,950	81,050	82,300	83,600	84,900
001-2	General Fund-Federal	91,950	81,050	82,300	83,600	84,900
Total		183,900	162,100	164,600	167,200	169,800

Narrative

One Time Cost Custodial equipment Ongoing Costs 2.0 FTEs 01 Custodian 2 at \$64,300/year for year 2028 01 Maintenance Mechanic 2 at \$96,200/year for year 2028 -> All salaries are calculated on step M, with benefits (37%), and projection of 1.5% COLA per year -> Inflation projection for Custodial Equipment is 3% per year -> All dollar amounts are calculated at 50% State, 50% Fed

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000591	30000591
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:23PM

Project Number: 30000597

Project Title: Washington Youth Academy - Eastside Campus

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 7

Project Summary

The COVID-19 pandemic has put a huge strain on our school system, as well as on the mental and emotional health of students and families statewide. These stressors will only increase the already high demand for our state's highly successful academic and life intervention program for at-risk youth, the Washington Youth Academy. This project will allow the Military Department to complete a pre-design for a second Youth Academy campus, to be located in Richland, WA - geographically located to serve more families on the eastern side of the state where demand is the fastest growing, and where distance from the current Academy campus in Bremerton, WA prevents many underserved youth from considering the opportunity to get back on track in school.

Project Description**Program Overview:**

The Washington Youth Academy (WYA) is a National Guard Youth ChalleNGe Program that provides those most at need of educational justice a second chance to become responsible and productive citizens by helping them improve their life skills, education levels and employment potential. Established under authority of both federal and state law, the WYA is a state-run residential and post-residential intervention for youth who are close to or have already dropped out of high school and need help recovering school credits. While cadets live on-site, the WYA is free to participants and incorporates a highly-structured format with an emphasis on student discipline and personal responsibility to provide a positive, safe and secure learning environment.

According to data collected by the Office of the Superintendent of Public Instruction (OSPI), as many as 20 percent of high school students fail to earn a diploma within four years. Students who are homeless, persons of color, and/or who come from a low-income family are more likely to drop out of school. These are the same individuals who are more at risk of falling further behind in their education during the COVID-19 pandemic, with schools only offering online options while parents struggle to hold their teenage children accountable. The lack of a structured school day also provides young adults more opportunities to make poor decisions.

Given that – we know more youth will be interested in becoming cadets at the WYA when the pandemic is over, far exceeding our current capacity. Our program has successfully graduated 2,743 students in its 10-year history and returned them to their home school district back on track to success. The WYA serves male and female students (65 percent of past WYA students identify as male and 32 percent identify as female), and 47 percent are from households reporting less than \$35,000 annual income. Education is key to overcoming poverty, and the WYA ensures the underserved youth struggling in this demographic will have the opportunity to obtain skills and knowledge to support themselves and their families.

Since established in 2009, the WYA has supported the Washington Military Department's core mission of protecting our communities and creating a safe, secure Washington state. Research has shown that high school dropouts are more likely to commit criminal activity, use illicit substances and rely on government assistance. This puts our residents at risk. Additionally, the program has been recognized as a contributing partner in the state's goal to ensure a quality education to its residents, and to help increase on-time graduations with its primary partners, the state's schools. This success has earned the program strong support from the Office of the Superintendent of Public Instruction (OSPI). "The Washington Youth Academy offers a unique learning opportunity for students who benefit from more direction and structure," said State Superintendent of Public Instruction Chris Reykdal in 2019. "Serving students who are at-risk of dropping out or have already dropped out of school, the academy plays a vital role for its students in helping them understand and work toward their goals, and plan for their future. The results of these efforts are astounding." (WSSDA Direct, 2019, p. 12).

There is a significant amount of data and research validating the success of the Youth ChalleNGe program. In an independent study by MDRC published in June 2011 and titled, "Staying the Course: Three-Year Results of the National Guard Youth ChalleNGe Evaluation," found that participants in the National Guard Youth ChalleNGe Program, "were more likely to be employed and they earned about 20 percent more than their control group counterparts." (Executive Summary, p. iii). (MDRC 2011) "A Cost-Benefit Analysis of the National Guard Youth ChalleNGe Program," produced by the RAND Corporation in 2012

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Project Number: 30000597

Project Title: Washington Youth Academy - Eastside Campus

Description

reiterated that "25 percent of high school freshmen fail to graduate from high school within four years and are more likely to commit crimes, abuse drugs and alcohol, earn low wages, be un- or underemployed, and suffer poor health than are individuals who successfully complete high school" (Summary, p. xii). The study went on to conclude that the estimated return on investment for the ChalleNGe program (166 percent) was significantly higher than programs like Job Corps, Big Brothers Big Sisters and other programs that seek to help some of the same youth as the WYA. With a return of \$2.66 for every \$1 invested, an east-side campus of the WYA is a great investment. (RAND 2012).

Problem Statement:

Even before the COVID-19 pandemic, the demand for Washington's premiere academic intervention has steadily increased since its first class in 2009 and far surpasses the space available. Given the pivot to virtual learning in early 2020, and the inconsistent availability of broadband internet access in Eastern Washington and other rural parts of Washington, the number of applicants is only expected to climb. With only one location in the state and 14,000-17,000 high school dropouts annually, the WYA has been able to serve just a small fraction of students who would benefit from the program, about 330 students per year. Attendance is limited by available space, as there are only 165 spaces available in each class, with two classes held each year. Furthermore, many youth and families in Eastern Washington aren't served by this program due to the location; families are reluctant to be so far from their children for the 22-week residential part of the program or are unwilling or unable to send their child across the state. For many families this school is 180 miles or more away, which is a long way to send any child, especially a child who is already struggling. Only 27 percent of WYA participants are from counties east of the Cascade mountains.

For the class that began in July 2019, there were more than 730 inquiries for only 165 available openings. More than 330 of these youth and their families started an application and 270 of those completed their application, still more than twice the available beds. Now with almost 3,000 graduates, the Washington Military Department seeks to open doors to more of our state's disengaged youth who are failing in traditional school settings.

Proposed Project:

The Military Department seeks to expand the Youth ChalleNGe program by opening a second campus in Eastern Washington. This project is the first step (pre-design) in addressing the need for an eastern Washington Youth Academy location to augment the Bremerton campus. The request is for a pre-design this 2021-23 biennium, followed by a design plan and then construction (2023-25 biennium) for a dormitory, offices, classroom, library, kitchen and other support areas such as restrooms/showers, laundry, mechanical, electrical, IT infrastructure and a covered physical training area for inclement weather. The preferred location for this second campus is on land in Richland, WA already owned by the Military Department, co-located with the Richland Readiness Center.

The request would provide approximately 165 more opportunities per semester (330/year) for youth that have already dropped out of high school or who are at-risk of dropping out. By opening a second campus in Eastern Washington, students on the eastern side of the state who might otherwise choose not to participate due to distance would now be able to take advantage of this opportunity to get their lives back on track. The WYA registration demographics show that while outreach and admissions have promoted the opportunity to underserved youth from every county in the state, those most likely to apply and attend are from the western counties (80 percent). Families from counties on the eastern side of the state are often hesitant to send their children such long distances from home, especially when separated by a mountain range, for the 22-week residential phase of the Academy. Families who cannot afford to transport their children to the Bremerton campus, or whose culture and practice discourage sending their children to residential schools at such a far distance from their homes, would find the Richland location more accessible and financially manageable.

Alternatives Explored:

While it doesn't address the mileage and geographic barriers to potential youth applicants and their families, on-site expansion was explored and even presented as a request in years past. It was not approved.

The option to purchase a closed school building in Spokane Valley was explored, but it was under a long-term lease as a police training facility and the managing school board was not interested in selling the building. Due to the WYA's unique mission, leasing a building not specifically designed for the Academy's residential use is not an option.

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:23PM

Project Number: 30000597

Project Title: Washington Youth Academy - Eastside Campus

Description

With the purchase of land in Richland by the Washington Military Department for the construction of a Readiness Center, the opportunity to co-locate an Academy (as we did with the current Youth Academy campus in Bremerton, co-located with the Bremerton Readiness Center) presented a better solution for the cost, besides being closer to where the number of applicants has risen over the past seven years. This option also offers three times the bed space than an on-site expansion in Bremerton.

Project Impacts:

Eastern Washington youth who have dropped out of high school (or who are at risk of dropping out) and their families would benefit from a second Academy located closer to their hometowns. School district personnel in the larger metropolitan areas in Tri-Cities, Yakima and Spokane have affirmed that they would be able to refer more youth and families from their districts in need of the National Guard Youth ChalleNGe opportunity if there were a campus located on the eastern side of the mountains.

Further, cadets in residence at a Youth ChalleNGe Academy add value to their local and surrounding communities. If recent years in Bremerton are indicators, Richland and the surrounding areas would benefit from more than 16,000 hours per year of service to the community at an estimated value of \$548,882 (independentsector.org). Each youth contributes more than 50 hours of service to the community as they build gardens at schools, clean and conserve public areas and parks, enhance elementary school reading programs and mentor younger children, visit and serve the elderly in retirement communities and veteran's homes, and facilitate festivals, parades and municipal/regional functions for the general public.

Project Funding:

The National Guard Youth ChalleNGe Cooperative Agreement requires that each state fund 100 percent of the cost to build or acquire the facilities necessary for a Youth ChalleNGe program, thus general funds are sought to fund the full expense of this capital project. Once the building is constructed and the facility is up and running, the National Guard Bureau funds 75 percent of the operating costs. The remaining 25 percent of the operating costs are state-funded, but these are provided by funds already legislated through the OSPI that follow the students accepted into the program.

This request is for the pre-design which doesn't include any IT-related costs. Eventually, the construction will require infrastructure for securing FERPA data and supporting staff and classroom hardware and software.

Location

City: Richland

County: Benton

Legislative District: 008

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

Construction of a new Washington Youth Academy is compatible with Growth Management. Existing infrastructure in the area is sufficient for the facility including roads. Weekday traffic for this facility will be limited to a small number of full-time staff, there should be little or no impact to the local area.

New Facility: Yes

How does this fit in master plan

The agency's objective includes an expansion of the Washington Youth Academy on the Eastside.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	36,588,000				300,000
	Total	36,588,000	0	0	0	300,000

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:23PM

Project Number: 30000597

Project Title: Washington Youth Academy - Eastside Campus

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State	36,288,000			
	Total	36,288,000	0	0	0

Operating Impacts**Total one time start up and ongoing operating costs**

Acct Code	Account Title	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
FTE	Full Time Employee	44.0	44.0	44.0	44.0	44.0
001-1	General Fund-State	824,250	1,030,100	1,040,500	1,099,400	1,133,000
001-2	General Fund-Federal	2,472,650	3,090,200	3,121,500	3,298,000	3,398,800
	Total	3,296,900	4,120,300	4,162,000	4,397,400	4,531,800

Narrative

Maintenance: -> One Time Cost Custodial equipment -> Ongoing Costs 1.0 FTEs 01 Maintenance Mechanic 2 at \$80,400/year for year 2026 --> All salaries are calculated on step L, with benefits (35%), and projection of 1.5% COLA per year --> Inflation projection for Custodial Equipment is 3% per year --> Once the building is constructed and the facility is up and running, operating costs are split 75% federal and 25% with Office of Superintendent of Public Instruction (OSPI) funds. WYA operating impact - was added to this screen, but please see "attachments" tab for detailed info. 44 FTEs and 7 contractors.

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000597	30000597
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/13/2020 5:59PM

Project Number: 30000592

Project Title: King County Area Readiness Center

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 8

Project Summary

The Washington Military Department requests reappropriation of funding to conduct a pre-design for a new National Guard Readiness Center and Field Maintenance Shop in the King County area. The eventual construction of this readiness center will allow the National Guard to vacate the Seattle Armory in downtown Seattle, enabling the land in Seattle to be made available for other purposes.

Project Description

Background:

The Legislature appropriated \$6.6 million in SHB 1102 (the 2019-21 Capital Budget) toward the purchase of land in King County for a readiness center. The Military Department has an Option to Purchase and Sales Agreement and is awaiting utility service guarantees before finalizing the purchase of a parcel of land in North Bend. This purchase is expected to be completed within Fiscal Year 2021.

The current Seattle Armory was built in 1972 on a 24.75-acre parcel in the heart of the City of Seattle near Pier 91 (a cruise ship terminal) at 1601 W Armory Way. The Department's extensive survey and assessment of the current Seattle Armory revealed the facility is functionally inadequate, structurally compromised and cannot be economically renovated or altered to meet current building codes or required support functionality. The Makers Study, a 2004 OFM-directed study to guide Military Department facility planning, in conjunction with the Department's own assessment and an Engineering Survey funded by the National Guard Bureau (NGB), helped the Military Department reach this conclusion.

Specifically:

Armory Inadequacies:

- The assembly hall (4,100 SF) is far too small for the number of National Guard members stationed there;
- The arms room (vaults) are too small to accommodate the weapons assigned to this facility and are not up to code, which has rendered weapons stored there unusable;
- The administrative space is too small for the number of full-time employees who work there;
- The indoor assembly space is too small and does not have a functioning HVAC system, which forces the National Guard to hold training outdoors instead, often canceling training altogether due to weather;
- The kitchen (2,200 SF) is too small to cook for and serve the number of guard members necessary;
- There is no remaining space on the property to expand the facility's footprint;
- There is little to no ADA-compliant access to the facility;
- The exterior of the building shows excessive wear and tear, as well as mold;
- Ventilation in the women's restroom is lacking, which has caused mold to grow on the shower ceilings;
- Windows and floor tiles need to be replaced;
- There is no physical fitness room or lactation room;
- Concrete floors show cracks on more than 80 percent of the area; and
- Interior of the building has had several water pipe leaks.

Field Maintenance Shop (FMS) Inadequacies:

- The maintenance bays are too small and few to accommodate the number of assigned vehicles; and
- The FMS does not have the cranes and other tools and equipment necessary to properly carry out the mission.

Operational Inadequacies:

- Due to its location in downtown Seattle, the accompanying downtown traffic, and the proximity of the highway, convoy movement is severely limited in and out of this facility;
- National Guard traffic into and out of the Seattle Armory disrupts surrounding residential tenants and commercial traffic;
- The roads, exits and entrances are too small to accommodate the large National Guard vehicles;
- Lighting on-site is not enough to protect the high-value National Guard vehicles and assets stationed there;
- During an actual disaster, units stationed at this facility would be operationally trapped in downtown Seattle due to traffic

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Project Title: King County Area Readiness Center

Description

and would be unable to respond; and

- The site is in a liquefaction zone and is seismically vulnerable, possibly rendering the facility useless in an earthquake, when it would be needed most.

While the location of the Seattle Armory land and the size and condition of the facilities on it render it insufficient for National Guard use, the location is in high demand for other uses. In the 2018 Supplemental Capital Budget (ESSB 6095), the Washington State Legislature established the Interbay Public Development Advisory Committee *"to make recommendations regarding the highest public benefit and future economic development uses for the Washington army national guard ("Guard") armory facility ("Interbay property") in the City of Seattle, pier 91 property, located at the descriptions referred to in the quit claim deeds for two parcels of land, 24.75 acres total, dated January 8, 1971, and December 22, 2009."*

The Committee issued its final report in September 2019, which included the following findings:

- The current location of the Seattle Armory has several major deficiencies and no longer meets the readiness needs of the National Guard;
- The National Guard has identified the North Bend area as the preferred location to replace the Seattle Armory with a new King County Readiness Center;
- The Washington State Legislature recently allocated \$6.6 million toward the purchase of an appropriate site for a new King County Readiness Center and Field Maintenance Shop;
- There may be no development on the Interbay property until the Guard is fully operational elsewhere. The new King County Readiness Center must be fully operational, and the Seattle Armory fully moved out prior to starting physical redevelopment of the Interbay property;
- Securing federal funds for the relocation is not likely, creating the need to identify other resources if the Guard is to be relocated in the near future. The total anticipated cost of relocation to a new King County Readiness Center is estimated to be \$104 million, excluding land, and because of the size of the capital requirement it is likely less competitive for receiving federal funds;
- There is not a development scenario that provides an acceptable level of public benefit and generates sufficient value to offset the entire remaining and currently unfunded cost of the development of the future King County Readiness Center and Field Maintenance Shop facility and the associated relocation activities; and
- Financial returns from the Interbay property's redevelopment will not be realized until after the Guard has relocated. There is an expected time gap of at least three to five years between when the Guard obtains capital funding to relocate and when the Interbay property can generate actual financial value to the state.

While the Washington Military Department does not have a vested interest in the ultimate use of the Seattle Armory land, it does intend to request replacement of the old Seattle Armory and FMS with a new King County Readiness Center that will allow seamless transition to the new facility as soon as reasonably and realistically possible to facilitate repurposing of the land. The National Guard cannot vacate the Seattle Armory land until the replacement Readiness Center and FMS have been completed.

In parallel, the Military Department was recently notified that King County does not intend to renew the Military Department's lease for space at Boeing Field, which will require the unit stationed there to relocate as well. The current lease will expire on June 20, 2023.

Project Request:

This reappropriation request will complete a pre-design study in Fiscal Year (FY) 2022, upon securing the land for a new King County Readiness Center, which would allow the National Guard to vacate the Seattle Armory once the new RC is complete. We anticipate requesting Design funding in FY23-25 and Construction funding in FY25-27 Capital Budget.

The new Readiness Center would include the following:

- | | |
|---|-------------------------------|
| · A multi-storied, modern King County Readiness Center (168,000 SF) | (approx. \$65 million) |
| · A Field Maintenance Shop (25,000 SF) | (approx. \$22 million) |
| · A Stryker canopy parking area (40,000 SF) | (approx. \$4 million) |
| · A helicopter landing pad configured for a Chinook Helicopter | (approx. \$500,000) |
| · A Controlled Humidity Preservation (CHP) building (20,000 SF) | (approx. \$3 million) |
| TOTAL: | Approx. \$94.5 million |

Capital Project Request

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Project Title: King County Area Readiness Center

Description

Many of these facilities are common throughout the National Guard and therefore will be standard or uncomplicated design. Based on the cost guide in the OFM Pre-Design Manual, cost estimates for the pre-design are as follows:

· King County Readiness Center (Standard Design) = .5% x \$65 million =	\$325,000
· Field Maintenance Shop (Standard Design) = .5% x \$22 million =	\$132,000
· Stryker canopy parking area =	not required
· Controlled Humidity Preservation =	not required
· Helicopter pad = not required	

TOTAL PREDESIGN: \$455,000

Design costs are estimated at \$6,000,000.

TOTAL PROJECT PRICE: \$100,955,000

This project will consolidate 700 Soldiers serving in various Washington National Guard units in King County (including the Seattle Armory and Boeing Field) into one modern Regional Anchor Readiness Center complex to support continuing operations, training, unit transformation and maintenance requirements. This consolidated facility will provide administrative, training, classroom, secure storage, sanitary and locker room areas, food preparation, a large assembly space and privately owned and military vehicle parking, plus all support facilities currently at the Seattle Armory in order to support the WAARNG's mission.

The project has three phases:

Phase 1 is the purchase of land (to be completed in FY21, delayed due to complications regarding availability of utilities on the proposed site)

Phase 2 is the pre-design (FY22)

Phase 3 will be the design and construction of the components listed above.

Project Outcome:

Within the new Readiness Center, numerous areas (training classrooms and assembly hall) will be available for public usage. This project is consistent with recommendations of the Office of Financial Management (OFM) WAARNG Readiness Center Comprehensive Stationing Plan ("Maker's Study") and the Department's "Readiness Center Assessment." The Seattle facility will be divested after construction has been completed at the new King County Readiness Center. The new King County Readiness Center would be designed to the sustainable rating standard of "LEED Silver."

This project would provide three specific outcomes:

1. Assigned Army National Guard units will have modern facilities which fully support training requirements and provide adequate space for equipment and vehicles and comply with the Department of Defense (DoD) Anti-Terrorism Force Protection (AT/FP) standards.
2. The King County Region will benefit from having National Guard facilities and units that are positioned to be able to respond to the region's needs in a disaster, rather than being landlocked and trapped.
3. The current Seattle Armory land will be vacated and made available for other uses.

If this project does not proceed, the current National Guard units struggling to fit into the existing and inadequate Seattle Armory space will have to continue to make do, and efforts to repurpose the Seattle Armory land will be delayed.

Project Alternatives:

For the National Guard's purposes, the current space cannot be renovated, remodeled, reconfigured, or even razed and rebuilt to meet National Guard's needs because:

- a) The extent of improvements required is cost prohibitive; and
- b) No amount of renovation will change the fact that it is in the heart of downtown Seattle.

It would be possible for the National Guard to relocate somewhere else, but since the Legislature has already appropriated

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Project Number: 30000592

Project Title: King County Area Readiness Center

Description

funding to purchase a particular parcel of land, and that purchase will be completed within the next several months, the Military Department prefers to continue along that same plan.

Due to the unique requirements of Readiness Centers (including operational requirements and fiscal requirements of the Master Cooperative Agreement between the State of Washington and the National Guard Bureau), renovating or leasing existing facilities is not an available option.

Project Impacts:

The overall quality and functionality rating of our Army National Guard capital facilities is only marginal to average. Our facilities are at further risk if funding for capital improvement projects is not provided. This project supports four out of six strategic goals of the Department: 1) Enhanced Preparedness, 2) Outreach, 3) Modernization and 4) Efficiency and Effectiveness.

Construction of a new King County Readiness Center outside of downtown Seattle most immediately benefits the National Guard units which will occupy the new space, enabling Soldiers to have a modern Readiness Center complex that supports continuing operations, training, unit transformation and maintenance requirements.

The secondary beneficiary are residents in King County and surrounding areas who will benefit from having National Guard facilities and units positioned to be able to respond to the region's needs in a disaster, rather than being landlocked and trapped.

The third benefit is the State of Washington can repurpose the Seattle Armory land in downtown Seattle for a more appropriate use.

Project Funding:

Federal funding is not expected to be available for this project prior to federal fiscal year 2033. The Future Year Defense Plan (FYDP) that provides federal funding for military construction projects is planned about 10 years in advance and this project is not on it. In addition, the Readiness Center and FMS would require separate federal Military Construction (MILCON) funding approval. We anticipate needing 100 percent state funding.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Acquisition - Land

New Facilities/Additions (Major Projects)

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal					
057-1	State Bldg Constr-State	107,555,000		6,600,000	455,000	
	Total	107,555,000	0	6,600,000	455,000	0
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State	6,000,000	94,500,000			

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/13/2020 5:59PM

Project Number: 30000592

Project Title: King County Area Readiness Center

Funding				
Total	6,000,000	94,500,000	0	0

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000592	30000592
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:47PM

Project Number: 40000190

Project Title: Camp Murray Bldg 47 and 48 Barracks Replacement

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 9

Project Summary

This request is for federal spending authority for the replacement of training barracks on Camp Murray, buildings 47 and 48. These 80-year-old buildings are too small, past their useful life, and no longer compliant with training barracks standards. An increase of nearly 1100 SF will support the mission of the Washington Army National Guard 205th Regional Training Institute to provide high-level education and modern training programs.

Project Description**Background:**

The training barracks, building 47 and 48 on Camp Murray, were built in 1940 with a combined footprint of 2,920 SF and a capacity to support eight (8) persons per building, sixteen (16) beds total. At 80-years-old, the buildings are past their useful life and no longer compliant with National Guard training facility standards. While maximum capacity in accordance with National Guard Pamphlet 415-12 and the mission of the 205th Regional Training Institute (RTI) exceeds 100 beds, this project is based on habitual peak training unit requirements, budget restrictions and land availability. Hence, the new facility is planned with a capacity of twenty-four (24) beds.

Project Overview:

This project will demolish the existing barracks, then design and construct a 4,000 SF of a combined construction of modular, pre-engineered and concrete masonry materials for an upgraded barracks that will meet the requirements and mission of the 205th RTI. This project includes all environmental requirements; civil, electrical and plumbing work; necessary trenching and boring; installation of all electrical and plumbing fixtures; and miscellaneous items necessary for a complete twenty-four (24) bed barracks.

This will replace two old and inefficient buildings with one modern facility, increasing capacity and bridging the gap for an ideal educational facility for the 205th RTI. It is important for the RTI to have quality facilities that give a mindset to soldiers that they are receiving high quality training.

Project Alternatives:

If spending authority is not approved, it would deter the 205th RTI's ability to provide high-level education and modern training programs. Non-approval also risks the loss of 100% federal funding to complete the project. Renovations would provide the required increased capacity. A combination of renovation and addition to these buildings is not cost effective due to the variety of materials and age of the buildings. Closing the facilities and having soldiers/students reside off-site reduces available training time and places students at risk with increased travel requirements.

Project Impacts:

This project supports the 25-Year Facilities Master Plan by providing regionalized facilities that support training, enhance learning, and build pride within the WAARNG and the Military Department, which improves National Guard recruitment and retention. The main beneficiary of the new barracks would be the soldier/student population that receives training through the 205th RTI. The instructors and Washington Army National Guard leadership gain assurance in meeting their mission to provide high-quality training within the State of Washington. It will also bring awareness among other states, highlighting the RTI as a center of educational excellence.

Project Funding:

This request is for \$2,223,000 of federal spending authority only. The project will be 100% federally reimbursed funds through the National Guard Bureau Master Cooperative Agreement. There is no requirement for a state match and there are no operational impacts in future years.

CBS Form Questions:

IT questions all No – N/A

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:47PM

Project Number: 40000190

Project Title: Camp Murray Bldg 47 and 48 Barracks Replacement

Description

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

The project seeks to comply with state and federal laws and building codes regarding energy efficiency. Updated HVAC systems, improved electrical systems, and better waste management will be sought during this project.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

There are no growth management impacts; the project is within the existing barracks footprint to support the same purpose.

New Facility: Yes

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	2,147,000				2,147,000
	Total	2,147,000	0	0	0	2,147,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000190	40000190
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:50PM

Project Number: 40000191

Project Title: Camp Murray Bldg 65 Barracks Replacement

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 10

Project Summary

This request is for federal spending authority for the replacement of officer training barracks on Camp Murray, building 65. The 80-year-old building does not meet current capacity requirements and is past its useful life.

Project Description**Background:**

Building 65 was built in 1940 with a capacity to support six personnel. The building requires a rebuild or replacement to bring it up to modern standards. While maximum capacity in accordance with National Guard Pamphlet 415-12 and the mission of the 205th Regional Training Institute (RTI) exceeds 100 beds, this project is based on habitual peak training unit requirements, budget restrictions, and land availability. Hence the new facility is planned with a capacity of 12 beds.

Project Overview:

This project will demolish the current barracks, then design and construct a replacement officer training barracks that meets the requirements and mission of the WAARNG and supports the transient personnel that travel for longer than 100 miles. It is important for the transient training barracks to have the capacity to support the WAARNG population on or around Camp Murray and Joint Base Lewis McChord. Furthermore, this will replace an old and inefficient facility with a modern, more energy-efficient facility.

Project Alternatives:

If federal spending authority is not approved, it would deter officers from traveling for training. A lack of quality training facilities reduces the WAARNG's ability to recruit high quality members. Non-approval also risks the loss of 100% federal funding to complete the project. Building another officer barracks is not feasible due to other priority projects planned on Camp Murray. Closing the facilities and having students/instructors reside off-site reduces available training time and places students at risk with increased travel requirements.

Project Impacts:

This project supports the 25-Year Facilities Master Plan by providing regionalized facilities that support training, enhance learning, and build pride within the WAARNG and the Military Department. The main beneficiary of the new barracks would be the officer/student/instructor population that receives/provides training on Camp Murray. The instructors and Washington Army National Guard leadership gain assurance in meeting their mission to provide high-quality training within the State of Washington.

Project Funding:

This request is for \$2,236,000 of federal spending authority only. The project will be 100% federally reimbursed funds through the National Guard Bureau Master Cooperative Agreement. There is no requirement for a state match and there are no operational impacts in future years.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

The project seeks to comply with state and federal laws and building codes regarding energy efficiency. Updated HVAC systems improved electrical systems, and better waste management will be sought during this project.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:50PM

Project Number: 40000191

Project Title: Camp Murray Bldg 65 Barracks Replacement

Description

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

There are no growth management impacts; the project is within the existing facility to support the same purpose.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	2,236,000				2,236,000
	Total	2,236,000	0	0	0	2,236,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000191	40000191
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

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*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:52PM

Project Number: 40000196

Project Title: JBLM Non Organizational (POV) Parking Expansion

Description

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 11

Project Summary

This request is for federal spending authority for the construction of a personally owned vehicle parking lot at the Aviation Readiness Center on Joint Base Lewis McChord. There is a shortage of parking capacity on drill weekends, annual training periods, and during regional training course offerings, requiring soldiers and guests to park several blocks away with inadequate pedestrian access.

Project Description

The Washington Army National Guard (WAARNG) Aviation Readiness Center hosts regional training events in addition to the soldiers reporting for Unit Training Assemblies or Inactive Duty Training (drill weekends) or two-week Annual Training events. Personnel and guests regularly experience a parking shortage at the facility on Joint Base Lewis McChord. There is very little street parking available and only along commercial business areas. The nearby parking lots are occupied by respective facility occupants. Therefore, personnel and guests often park several blocks away, walking along busy side streets with no sidewalk and minimal if any shoulder space. This creates a safety concern for personnel and guests.

This request for spending authorization is for the construction of a 6,000 square yard non-organizational or personally owned vehicle (POV) parking lot. This lot will add about 70 parking spots to support the assigned units, and guests that come to the location. It also adds 145 linear yards of sidewalk to improve pedestrian safety and access to the building.

The total cost is \$1,245,000. The project will be funded with 100% federally reimbursed funds from the National Guard. There is no requirement for a state match and there are no operational impacts in future years.

Location

City: Tacoma

County: Pierce

Legislative District: 028

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

There are no significant impacts on the operating budget.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	1,244,400				1,244,400
	Total	1,244,400	0	0	0	1,244,400
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 5:52PM

Project Number: 40000196

Project Title: JBLM Non Organizational (POV) Parking Expansion

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000196	40000196
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:00PM

Project Number: 40000192

Project Title: Camp Murray Bldg 34 Renovation

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 12

Project Summary

This request is for the renovation of building 34 on Camp Murray to extend its useful life and support the increased mission requirements and operational needs of the Washington Army National Guard 81st Medical Detachment (MEDDET) and the 133d Army Band.

Project Description

Physical Concerns:

Building 34 is a 44-year old facility and nearing the end of its useful life. The building was rated as Critical and High Risk according to the Army Focus Risk Model. While the building has stood for many years and received the necessary maintenance and improvements there are signs of building quality failure such as:

- significant damage to the ceiling with leaks appearing from the roof,
- extensive wall damage requiring repair and repainting,
- worn floors and carpet requiring replacement throughout, and
- a failing water heater past its life.

Functionality Concerns:

There are two units assigned to the building, the Washington National Guard's 133d Army Band and the Medical Detachment (MEDDET). The existing space configurations of the building are insufficient for the mission requirements of both these units. Currently, the MEDDET are performing their mission in a standard administrative room which is not conducive for medical work, their counseling room and hearing test room is co-located in a high traffic use area with other medical doctors who conduct review and counseling with patients/soldiers. Their medical records are stored in a regular filing cabinet storage while the electronic information is on a common server.

MEDDET requires:

- two private offices for behavioral health counselling,
- hearing test room that has no background noise when conducting test,
- dedicated server to handle electronic medical information,
- secure data and medical file storage space for the 6,000 Soldiers of the WAARNG that meet compliance with the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and Army Regulation 380-5, Chapter 6, and
- medical facilities that meet current industrial hygiene and safety standards.

The Army Band is utilizing one main rehearsal room which is inadequate for a full rehearsal requirement and only a small room which is not enough to perform small unit rehearsal or conduct private conversation between and among members. The 133d Army Band requires a main rehearsal room with adequate space for full rehearsals and two smaller individual rehearsal spaces.

The existing degraded physical condition of the building such as damaged ceiling areas due to roof leaks may eventually develop mold and mildew posing a very significant health and safety risk, wall damaged due to age impacts structural integrity, worn out floors and carpet poses safety and health hazards; and the inadequacy of the building space has a significant impact on the delivery of MEDDET and the Army Band's federal and state missions and their key roles for the WAARNG.

Project Overview:

This request is for the design and construction for the preservation and upgrade of building 34 to support the increased mission requirements and operational needs of the National Guard units that occupy this building. The project will address all the functional and physical conditions mentioned above. The design is planned for state fiscal year (SFY) 2022 with construction in SFY 2023.

Project Alternatives:

There are no facilities available within our current inventory that can support each of the units' unique requirements; therefore,

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Report Number: CBS002

Date Run: 9/11/2020 6:00PM

Project Number: 40000192

Project Title: Camp Murray Bldg 34 Renovation

Description

restationing is not an option. If not renovated, the building will continue to age past useful life and become non-mission capable. More importantly, critical risk factors such as the hygiene and safety standards of the medical facilities, compliance with HIPAA for data and file storage, and proper behavioral health counseling space will remain unresolved.

Renovation of this facility is a more cost effective and sustainable option, extending its useful life. This renovation is much more economical than designing and constructing a new building of this size, which would require millions of state and federal funds. The federal funds procurement process for new facilities requires national level competition through the Army National Guard Military Construction Infrastructure Requirements Plan for future years with a historical success rate of only one project funded every three to six years.

Project Impacts:

The direct beneficiaries are the MEDCOM and 133d Army Band. Secondary beneficiaries are the approximately 6,000 Army National Guard Soldiers who receive medical screening and care from the MEDDET, especially the 81st Stryker Brigade Combat Team, the largest unit within the State of Washington. This renovation will allow MEDCOM to work towards their readiness requirements without interruptions and be efficient with their command and control requirements. The 133d Army Band supports numerous community outreach missions each year providing performances at community concerts, sporting events, Army National Guard ceremonies, state functions and other events and gatherings across the state.

This project supports the 25-Year Facilities Master Plan by providing efficient facilities ready to support the missions of the State of Washington and the Army National Guard including disaster relief, civil disturbances, overseas deployments, and other federal and state missions.

Project Funding:

The total project funding requirement is \$2,446,000 with 50% (\$1,223,500) federal funding match from the National Guard and 50% (\$1,223,500) from the state. Federal funding is being requested simultaneously.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

Yes. One of the goals is to be energy efficient by improving the insulation of the building so the cost of maintaining HVAC systems is reduced to a manageable level, hence mitigating waste of emissions and cost.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

There are no growth management impacts; the project is within the existing facility to support the same purpose.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	1,223,000				1,223,000
057-1	State Bldg Constr-State	1,223,000				1,223,000

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:00PM

Project Number: 40000192

Project Title: Camp Murray Bldg 34 Renovation

Funding					
Total		2,446,000	0	0	0
					2,446,000
Future Fiscal Periods					
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

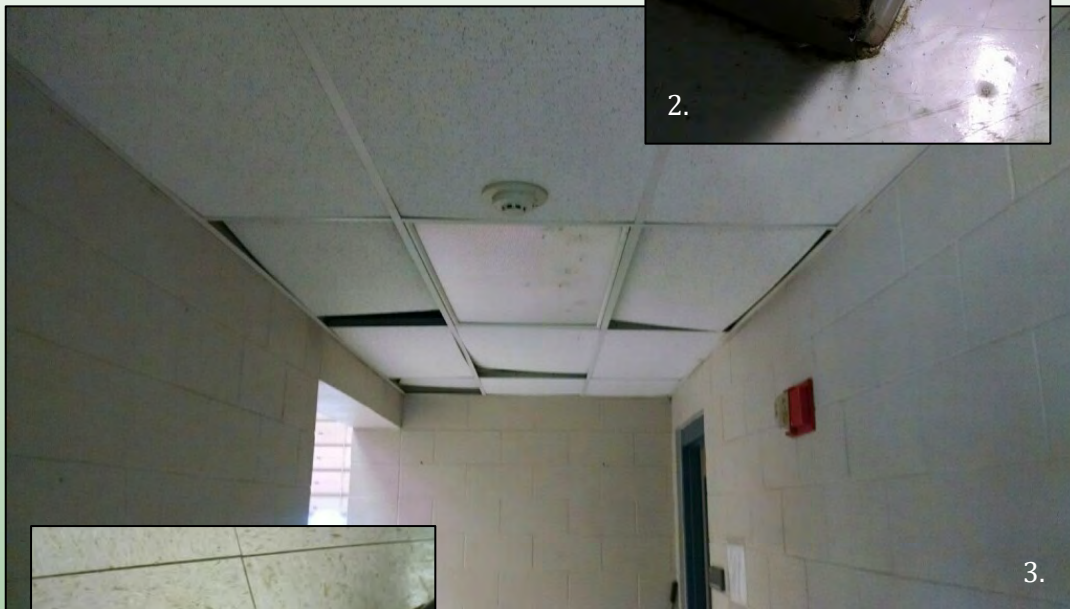
Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000192	40000192
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

MOSES LAKE



Below, several overhead lights in the gymnasium are not working and need to be replaced and/or repaired.



The interior of the facilities at Moses Lake needs several types of repairs. Clockwise from top left: 1. The brick walls have obvious cosmetic damage and are of need of repair. 2. Mold is present beneath the vinyl base moulding on an indoor column. 3. Several ceiling tiles are broken and/or warped and fit poorly as a result. 4. Trim strips along the ceiling are failing. 5. Cracked and/or broken floor tiles are present, creating a tripping hazard for building occupants.

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Report Number: CBS002

Date Run: 9/11/2020 6:13PM

Project Number: 40000194

Project Title: Moses Lake Readiness Center Renovation

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 13

Project Summary

This project request is for the renovation of the Moses Lake Readiness Center. The 26-year old building has noticeable deterioration, multiple health and safety risks, and lacks several force protection measures to meet current standards. The project proposes completing renovations during a scheduled vacancy period to avoid unit disruptions and increased operating costs.

Project Description

Project Overview:

The Moses Lake Readiness Center is a 26-year-old facility that has Marginal and Moderate Risk classification in the Army Focus Risk Model. Even though it is in the middle of its lifecycle, there are preservation and upgrading works that need to be done for the building to ensure that it supports operational needs of the Unit, the full time personnel, and any other groups that rent and use the facility within the community. Specifically, the preservation and upgrading concerns are due to the following issues:

- This roof is more than 25 years old and has leaked several times over the years, requiring multiple repairs. The roof needs to be replaced.
- Due to the leaks and age of the facility, there is damage to the ceiling, floors, and walls.
- The driveway leads directly to the front entry, which also lacks a standoff from the parking area. This leaves the entry vulnerable to security threats.
- The exterior doors lack cypher locks and other security measures to meet force protection requirements.
- The fire suppression system needs to be extended throughout the building; currently it is only installed within the kitchen area.
- Equipment storage area upgrades are needed, such as additional caging for proper storage and segregation of unit equipment, and an expanded arms room with capacity for the additional weapons from Stryker vehicles.
- The building lacks a dedicated lactation room. Breastfeeding women currently use a section of the latrine where cleaning equipment is stored.
- There has been noticeable deterioration of existing lighting. The drill hall lacks adequate lighting and appears dark all the time. This project will install LED lighting and improve energy efficiency.
- The building exterior and perimeter need better lighting for night operations and security around the outside of building to deter trespassing.
- Military-owned vehicle parking lots have short fencing that is adjacent to a large recreation area. The fencing can be climbed by outside individuals seeking to conduct theft or vandalism.
- The I/T infrastructure is outdated and needs upgrading of communication lines and connection boxes.

This request will produce the design for state fiscal year (SFY) 2022 and construction to begin in SFY 2023. The project will provide necessary preservation work and will upgrade the facility to support the operations of the Army National Guard and any tenants that have rental agreements at the facility.

Opportunity:

The units from Moses Lake will be stationed at the Richland Readiness Center, which is presently in the process of design and construction with an anticipated completion date of June 2022. The stationing to Richland will be the best opportunity to execute the necessary preservation and upgrades of the Moses Lake Readiness Center. Once the work is completed, the units will be re-stationed to Moses Lake, and the units from the Pasco Readiness Center will be stationed at Richland as permanent facility users.

This request will ensure the preservation and upgrade in a timely manner towards the improvements and modernization required to sustain a high level of readiness. Based on experience, construction work on a vacant facility provides a better window for short-term completion. There is a timely window of opportunity to complete this renovation in 2022 and 2023 when the unit regularly stationed there can be temporarily re-assigned to the Richland Readiness Center. If we are not able to

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Date Run: 9/11/2020 6:13PM

Project Number: 40000194

Project Title: Moses Lake Readiness Center Renovation

Description

complete the renovation while the facility can be vacant, and instead renovate while the once-a-month drilling units continue to use the space, it will take longer to complete the construction. By failing to act, that window of opportunity will close, and the facility will continue to gradually deteriorate, which will result in a higher operating cost and eventual necessary repairs to bring the facility into a mission ready standard.

Project Alternatives:

The only alternative identified is to delay the project and continue with only the regular maintenance work to preserve the facility. However, the need for a facility upgrade is still necessary as it is an aging facility that is more heavily used than other facilities in the area.

Project Impacts:

The primary beneficiary of the project will be the WAARNG units stationed at this location, the full time support staff, the drilling soldiers, and the Multi Agency Communications Center (MACC 911) serving Grant County or any other entities that rents space at the location.

The renovation project for the Moses Lake Readiness Center is part of the department's 25-Year Statewide Facilities Master Plan as this is one of the WAARNG sites that will not be divested in the future thus any project that will be executed will be for long term operations. This facility will continue serving the community as a regional anchor for recruiting efforts and as an emergency operations center for the WAARNG.

Project Funding:

This project will leverage a 50% match of federally reimbursable funds through the National Guard Bureau Master Cooperative Agreement. The state share is \$1,723,500 for a total of \$3,447,000. Federal funding is being request simultaneously.

IT Questions: N/A, No

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

All projects to improve the Moses Lake Readiness Center will consider energy efficiency improvements. These include but not limited to better HVAC systems, cleaner waste facilities, and LED lighting.

Location

City: Moses Lake

County: Grant

Legislative District: 013

Project Type

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

There are no growth management impacts; the project is within the existing facility to support the same purpose.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	1,738,500				1,738,500
057-1	State Bldg Constr-State	1,738,500				1,738,500
	Total	3,477,000	0	0	0	3,477,000

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:13PM

Project Number: 40000194

Project Title: Moses Lake Readiness Center Renovation

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000194	40000194
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:16PM

Project Number: 40000104

Project Title: Field Maintenance Shop Addition-Sedro Woolley FMS

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 14

Project Summary

This request is for federal spending authority for an addition to the Sedro Woolley Field Maintenance Shop (FMS). The FMS needs a crane, an additional work bay and upgrades to support the field maintenance shop requirements of the 81st Stryker Brigade Combat Team vehicles assigned in the northwest region of the state.

Project Description**Background:**

The Sedro Woolley FMS provides regional vehicle and equipment maintenance for the northwest region of Washington. Due to the 81st Brigade recent transformation to a Stryker Brigade Combat Team (SBCT), the current FMS does not meet the requirements and lacks proper equipment to complete routine maintenance and emergency repairs on the eight-wheeled armored Stryker vehicles. The Strykers are larger military vehicles than the regular inventory the FMS maintains. The bay doors are too low and there is no overhead crane for power pack replacement and other repairs.

Project Overview:

This project will design and construct an addition of 2,632 square feet, upgrade the heating, ventilation, and air conditioning (HVAC), and lighting, and install all features required for the Sedro Woolley FMS to provide maintenance and repairs for the Stryker vehicles assigned within the region. The proposed addition is for two additional service bays for a total of six and the installation of a 7 ½ ton bridge crane. The design will be completed during state fiscal year 2022 with construction following in 2023.

Project Impacts:

The project will create a suitable space for Stryker vehicle maintenance within the region of the state the vehicles are assigned. The additions and updates will allow the large vehicles to be moved in and out of the facility smoothly and for FMS maintenance personnel to easily execute modern maintenance activities with the use of the overhead crane. This will improve the operational readiness of the supported Stryker units of the 81st SBCT in the northwest region of Washington.

Project Alternatives:

If spending authority is not approved, the Stryker vehicles have to be transported a maintenance facility located either at Joint Base Lewis McChord (over 100 miles) or to the Maneuver Area and Training Equipment Site (MATES) maintenance facility located at the Yakima Training Center (over 200 miles). This would require long distance travel for routine and emergency maintenance, involve more travel time and expenses for personnel, and increase risk to personnel and equipment by driving large military vehicles on major highways. All these factors will limit the maintenance unit's ability to provide emergency, immediate and regular maintenance work on critical vehicles.

Project Funding:

This request is for \$1,380,000 of federal spending authority. The project will be 100% federally reimbursed funds from the National Guard. There is no requirement for a state match and there are no operational impacts in future years.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

This project reduces the amount of transportation required to transport Stryker vehicles to other maintenance facilities located 100+ miles away, which prevents the increase of carbon pollution when transporting to other maintenance facilities.

New Facility: No

Funding

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:16PM

Project Number: 40000104

Project Title: Field Maintenance Shop Addition-Sedro Woolley FMS

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	1,376,050				1,376,050
	Total	1,376,050	0	0	0	1,376,050

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000104	40000104
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids



PORT ORCHARD



1.

The facilities at Port Orchard are in dire need of attention and repairs.

1. The photo above shows significant weather damage and general wear to the exterior of the building.

2. The gravel parking lot is accumulating large puddles in potholes, creating hazardous driving conditions.

3., 4., 5. Several photos at right demonstrate the conditions found inside the facilities. Mold is noticeably present on the ceilings, the walls, and floor. The flooring is water-stained, scuffed, and worn out. Paint is peeling from the walls, and exposed cables and pipes present a significant safety hazard to building occupants



2.



3.



4.



5.

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Report Number: CBS002

Date Run: 9/11/2020 6:20PM

Project Number: 40000171

Project Title: Port Orchard Readiness Center Remodel and Exterior Improvement

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 15

Project Summary

This request is to renovate the Port Orchard Readiness Center, which will allow the Washington Army National Guard (WAARNG) and the South Kitsap School District to co-exist within the facility. Renovations include entrance reconfiguration, office and storage unit remodel, fencing, lighting, parking lot asphalt repair and re-gravel.

Project Description**Background:**

The Port Orchard Readiness Center was built in 1941 and has deteriorated over the years due to age, weathering and lack of state funding to maintain it. The facility is partially leased to the South Kitsap School District for use by teachers, students and administrative staff. Last year, a Washington Army National Guard infantry unit (approximately 45 Soldiers and four Stryker vehicles) was assigned to the Port Orchard Readiness Center, joining a recruiting unit. However, co-use agreements cannot be properly executed due to space configuration and lack of proper Department of Defense (DoD) Anti-Terrorism Force Protection (AT/FP) security measures. Current configuration of the facility requires unit personnel to walk in and out of the facility through classrooms during school hours. The current parking lot configuration leaves unattended military vehicles accessible by tenants and the public. The large potholes in the parking lot create a safety hazard, especially when it rains, filling with water.

Project Overview:

This project will:

- Reconfigure the existing entrance and interior to accommodate co-use by the WAARNG and South Kitsap School District
- Bring the facility into compliance with federal AT/FP standards;
- Upgrade existing telecommunications equipment and install new components as required for WAARNG occupied areas;
- Repair and sealcoat the existing privately owned vehicle (POV) parking area;
- Design and construct a new paved parking area with fencing to create a secure military equipment parking area separate from public access;
- Design and construct associated stormwater drainage and treatment systems as required;
- Upgrade existing exterior lighting and install new LED fixtures as required to meet AT/FP standards; and
- Remodel existing storage building to restore functionality and meet equipment security standards.

Phasing this project would not be an option without further extensive disruption to the WAARNG's and the school district's activities. Both interior and exterior projects are needed to comply with anti-terrorism/force protection standards such as window and doorway standoff requirements for parking lots and roadways, absence of mail bomb rooms, absence of emergency air distribution shut off, and glazed windows to withstand explosives to name a few. The design and construction phases of the project would be completed in 18 months.

Project Alternatives:

There is not another Readiness Center available in the area for the WAARNG infantry unit to be assigned to. The unit was temporarily assigned to the Bremerton Readiness Center, but this created an overcrowding situation and resulted in inadequate space to complete trainings, store equipment, and meet mission requirements. If this project does not occur, continuous daily disruptions to the infantry unit, recruiters, and school district will continue.

Renovation of this facility is a more cost effective and sustainable option, extending its useful life. An alternative to this project is to construct a new facility at another location, which would require millions of state and federal funds. This alternative would require state funding to purchase land elsewhere, as well as state and federal funding to design and construct a new readiness center with security fencing and lighting, a military vehicle parking lot, electronic gate access, storage facility and a parking lot for personally owned vehicles. The federal funds procurement for new facilities requires national level competition through the Army National Guard Military Construction Infrastructure Requirements Plan for future years with a historical success rate of only one project funded every three to six years, which would delay the project by at least 15-20 years.

Project Impacts:

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:20PM

Project Number: 40000171

Project Title: Port Orchard Readiness Center Remodel and Exterior Improvement

Description

This project benefits three primary stakeholder groups:

- It benefits the WAARNG by providing a usable readiness center that will meet AT/FP standards. The Port Orchard Readiness Center is part of the agency's 25 Year Facilities Master Plan to maintain a military unit presence in Port Orchard and the Puget Sound area. The National Guard units assigned to this Readiness Center will be able to use this facility for drills, training, and operations.
- It benefits the South Kitsap School District that currently leases the facility. Upon completion of the renovations, the WAARNG will no longer have to interrupt daily school operations by constantly walking through the school district's office and classroom space, allowing the two entities to collocate without disrupting each other.
- It benefits the nearby community by providing an improved readiness center that is ADA compliant, available for rent and use for other activities.

Project Funding:

The total cost for the project is \$1,808,000 with a 50% federal share from National Guard Bureau and 50% share from the state. The federal funding request was submitted for federal fiscal year 2021.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

The project seeks to comply with state and federal laws and building codes regarding energy efficiency.

Location

City: Port Orchard

County: Kitsap

Legislative District: 026

Project Type

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	904,000				904,000
057-1	State Bldg Constr-State	904,000				904,000
	Total	1,808,000	0	0	0	1,808,000

Future Fiscal Periods

	2023-25	2025-27	2027-29	2029-31
001-2 General Fund-Federal				
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

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Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:20PM

Project Number: 40000171

Project Title: Port Orchard Readiness Center Remodel and Exterior Improvement

Operating Impacts

No Operating Impact

Narrative

There are no significant impacts on the operating budget.

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000171	40000171
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:22PM

Project Number: 40000073

Project Title: Stryker Canopies Kent Site

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 16

Project Summary

This request is for reappropriation of federal spending authority for the construction of Stryker vehicle storage areas. The existing Kent Readiness Center site is not suited to support the recently acquired Stryker vehicles. Strykers are lighter, agile vehicles that can travel on area roadways and assist communities following a domestic emergency. They are a high cost piece of equipment that must be protected from wet weather.

Project Description**Background:**

The Washington Army National Guard acquired Stryker vehicles with the transition of the 81st Brigade into a Stryker Brigade. Strykers are light, agile vehicles that can travel on area roadways and can greatly assist communities during a disaster response. Stryker vehicles are prone to taking in rainwater from the turret. The wet weather conditions in the Pacific Northwest can cause a lot of damage to such costly vehicles.

Project Overview:

The proposed canopy will protect and prolong the life of the assets within the 81st Stryker Brigade Combat Team (SBCT). The project includes design and construction of a Stryker vehicle storage area for up to 32 Strykers that have been newly assigned to the unit at Kent Readiness Center. The proposed canopy will protect and prolong the life of the assets within 81st SBCT, preventing loss due to damage and corrosion caused by the rain.

Project Alternatives:

Specialized tarps could be used as an alternative, but they are expensive, get easily damaged by normal wear and tear, and increase response time in the event of an emergency. In the long run, the canopies are a more cost-effective alternative.

Project Impacts:

This project supports three strategic goals of the Department: 1) Enhanced Preparedness, 2) Modernization, and 3) Efficiency and Effectiveness by protecting critical assets of the Washington National Guard from corrosion and damage. The main beneficiary is the 81st SBCT assigned to the Kent Readiness Center, as well as the agency's clients, which include both the Army and Air National Guard, the state's Emergency Management Division, other emergency responders, and the community at large. All should experience more responsive and expanded services through the efficiencies of the proposed project.

Project Funding:

This request is for reappropriation of federal spending authority in the amount of \$3,000,000. The project is funded with 100% federally reimbursed funds through the National Guard Master Cooperative Agreement. There is no requirement for a state match and there are no operational impacts in future years.

Location

City: Kent

County: King

Legislative District: 033

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

None, the project is within the existing facility site to support new mission.

New Facility: Yes

Funding

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:22PM

Project Number: 40000073

Project Title: Stryker Canopies Kent Site

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	3,000,000			3,000,000	
	Total	3,000,000	0	0	3,000,000	0
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000073	40000073
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:25PM

Project Number: 40000077

Project Title: Stryker Canopies Bremerton Site

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 17

Project Summary

This request is for reappropriation of federal spending authority for the construction of Stryker vehicle storage areas at the Bremerton Readiness Center. The Bremerton Readiness Center site is currently unsuited to support the recently acquired Stryker vehicles. Strykers are lighter, agile vehicles that can travel on area roadways and assist communities following a domestic emergency. They are a high cost piece of equipment that must be protected from wet weather.

Project Description**Background:**

The Washington Army National Guard recently acquired Stryker vehicles with the transition of the 81st Brigade into a Stryker Brigade. Strykers are light, agile vehicles that can travel on area roadways and can greatly assist our communities during a disaster response. Stryker vehicles are prone to taking in rainwater from the turret. The wet weather conditions in the Pacific Northwest can cause a lot of damage to such costly vehicles.

Project Overview:

The proposed canopy will protect and prolong the life of the assets within 81st Stryker Brigade Combat Team (SBCT). The project includes design and construction a Stryker vehicle storage area for up to 16 Strykers that have been newly assigned to the unit at Bremerton Readiness Center. The proposed canopy will protect and prolong the life of the assets within 81st SBCT, preventing loss due to damage and corrosion caused by the rain.

Project Alternatives:

Specialized tarps could be used as an alternative, but they are expensive, get easily damaged by normal wear and tear, and increase response time in the event of an emergency. In the long run, the canopies are a more cost-effective alternative.

Project Impacts:

This project supports three strategic goals of the Department: 1) Enhanced Preparedness, 2) Modernization, and 3) Efficiency and Effectiveness by protecting critical assets of the Washington National Guard from corrosion and damage. The main beneficiary is the 81st SBCT assigned to the Bremerton Readiness Center, as well as the agency's clients, which include both the Army and Air National Guard, the state's Emergency Management Division, other emergency responders, and the community at large. All should experience more responsive and expanded services through the efficiencies of the proposed project.

Project Funding:

This request is for reappropriation of federal spending authority in the amount of \$1,500,000. The project is funded with 100% federally reimbursed funds through the National Guard Master Cooperative Agreement. There is no requirement for a state match and there are no operational impacts in future years.

Location

City: Bremerton

County: Kitsap

Legislative District: 035

Project Type

New Facilities/Additions (Major Projects)

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:25PM

Project Number: 40000077

Project Title: Stryker Canopies Bremerton Site

Description

Growth Management impacts

None, the project is within the existing facility site to support new mission requirements.

New Facility: Yes

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	1,500,000			1,500,000	
	Total	1,500,000	0	0	1,500,000	0
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000077	40000077
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:28PM

Project Number: 40000095

Project Title: Montesano Field Maintenance Shop (FMS) Addition

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 18

Project Summary

This request is for the reappropriation of federal spending authority. The existing Field Maintenance Shop (FMS) at the Montesano Readiness Center is not equipped to support the 81st Brigade's new Stryker vehicles, which are lighter, mobile vehicles that can be used to support communities following a domestic emergency. The shop will need to be upgraded with an overhead crane and improvements need to be made to other areas such as parking, work bays, electronic testing room, I/T, electrical and mechanical requirements. A Stryker vehicle is a high cost piece of equipment and will need a facility that is both physically and technologically modern to maintain the high-tech equipment.

Project Description**Background**

The existing Field Maintenance Shop (FMS) at the Montesano Readiness Center is not equipped to support the recently acquired Stryker vehicles. The Washington Army National Guard's 81st Brigade recently transitioned to a Stryker Brigade, providing the WAARNG with lighter, more agile vehicles (Strykers) that can be used on area roadways to assist communities following a domestic emergency. The shop needs to be upgraded with an overhead crane to conduct proper maintenance and repairs on these vehicles. Other areas also need improvements including the parking, work bays, electronic testing room, and information technology, electrical and mechanical systems. Stryker vehicles require a facility that is modern and big enough to maintain the high-tech equipment.

Project Overview

This project will consist of the alteration to the Montesano Field Maintenance Shop and construction of an addition to support Stryker vehicle maintenance and repair requirements and the transformation of the unit to a Stryker Brigade.

Project Alternatives

Strykers are costly vehicles. Without the proper space to maintain and fix them, the lack of maintenance will cause deterioration, resulting in the loss of millions of dollars in equipment. Since the Washington Army National Guard's Stryker mission is very specific, leasing a maintenance building is not an option. This means that there are no other alternatives besides adding space and renovating the current FMS facility.

Project Impacts

This project supports three strategic goals of the department: 1) Enhanced Preparedness, 2) Modernization, and 3) Efficiency and Effectiveness by protecting critical assets of the Washington National Guard from corrosion and damage. The main beneficiary is the 81st SBCT assigned to the Kent Readiness Center, as well as the agency's clients, which include both the Army and Air National Guard, the state's Emergency Management Division, other emergency responders, and the community at large. All should experience more responsive and expanded services through the efficiencies of the proposed improvements.

Project Funding:

This request is for reappropriation of federal spending authority in the amount of \$3,000,000. The project is funded with 100% federally reimbursed funds through the National Guard Master Cooperative Agreement. There is no requirement for a state match and there are no operational impacts in future years.

Location

City: Montesano

County: Grays Harbor

Legislative District: 019

Project Type

New Facilities/Additions (Major Projects)

Remodel/Renovate/Modernize (Major Projects)

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:28PM

Project Number: 40000095

Project Title: Montesano Field Maintenance Shop (FMS) Addition

Description

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	3,000,000			3,000,000	
	Total	3,000,000	0	0	3,000,000	0
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000095	40000095
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:30PM

Project Number: 30000596

Project Title: Tactical Unmanned Aircraft System (TUAS)

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 19

Project Summary

This request is for federal spending authority for the design and construction of a Tactical Unmanned Aircraft Systems (TUAS) hangar at the Yakima Training Center. The TUAS unit is no longer able to manage with a makeshift storage facility that requires constant assembly, disassembly and reassembly of the unmanned aerial vehicle and related equipment. This project will reduce several risk factors and allow the unit to improve training and operational readiness.

Project Description**Background:**

The Washington Army National Guard (WAARNG) received the Tactical Unmanned Aerial Vehicles/Systems (TUAV/TUAS) in 2004 despite a lack of facilities to store the aerial vehicles and associated equipment. For the past 16 years the unit has been using a makeshift storage facility or hangar that is non-mission capable resulting in constant assembly, disassembly and reassembly of the vehicle and all other related equipment. The unit is currently stationed at an old maintenance facility designed for military vehicles that does not support all the functions required to train with and maintain the TUAS.

Project Overview:

This project includes design and construction of a TUAS hangar at the Yakima Training Center (YTC). The facility will be used mainly for the training of Detachment 1, Company D, 898 Brigade Engineer Battalion of the Washington Army National Guard, law enforcement agencies, other federal agencies and active duty Army TUAS units. Design phase is programmed to commence during state fiscal year (SFY) 2022 with construction to commence SFY 2023.

This request will provide the unit with a dedicated mission capable facility at the YTC. Being able to properly store and maintain the equipment will reduce injury, loss of time, and environmental issues that arise during the constant assembly, disassembly and reassembly of the equipment.

Project Alternatives:

If federal spending authority is not approved, the facility will not be provided, and the unit will continue to utilize inadequate facilities. The unit will maintain the same level of risk and it will continue to impact the long-term training output of the unit thus impacting their capability to respond to emergencies and all other mission related responsibilities.

Per Federal Aviation Administration rules and regulations, airspace for a TUAS has a lot of restrictions therefore there is a very limited number of facilities that can accommodate it. Joint Based Lewis Mc Chord (JBLM) is a possible alternative, however, due to the increase of Army aircraft at Gray Army Airfield on JBLM and its nearby civilian areas, flying the TUAS in that airspace on a regular basis is not practical. The need for a dedicated facility to properly store the TUAS along with better accessibility to dedicated airspace is a high priority.

Project Impacts:

This project supports the 25-Year Facilities Master Plan by providing a facility that meets the TUAS requirements in a training environment that is fully functional. The main beneficiary would be Detachment 1, Company D, 898 Brigade Engineer Battalion unit at the YTC. With dedicated airspace and facility, they can focus on training instead of negotiating for airspace and facilities whenever they need to train for flying. WAARNG can also run the location to help other Army components and other agencies train in a dedicated airspace and TUAS facility. Furthermore, it increases the unit's readiness status to respond to emergencies and mission assignments.

Project Funding:

This request is for federal spending authority only, in the amount of \$15,000,000. The project will be 100% federally reimbursed funds from the National Guard. There is no requirement for a state match and there are no operational impacts in future years.

CBS Form Questions:

IT questions all No – N/A

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:30PM

Project Number: 30000596

Project Title: Tactical Unmanned Aircraft System (TUAS)

Description**How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?**

The project seeks to comply with state and federal laws and building codes regarding energy efficiency.

Location

City: Unincorporated

County: Yakima

Legislative District: 014

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

None, the project will be built on the existing airfield at Yakima Training Center.

New Facility: Yes

How does this fit in master plan

This project is listed in the agency's Long Range Construction Plan as number three for Unfunded Request.

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	14,800,000				14,800,000
	Total	14,800,000	0	0	0	14,800,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts**No Operating Impact****Narrative**

No significant operating impacts, minor increases in preventive maintenance which can be met with the existing department resources.

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000596	30000596
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department
Capital Project Request
2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:35PM

Project Number: 30000917

Project Title: Kent Readiness Center

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 24

Project Summary

Reappropriation funding is requested for the renovation project at the Kent Readiness Center. This building was constructed in 1990 and facility improvements are necessary to meet current mission requirements.

Project Description

The Kent Readiness Center is a 57,696 square foot facility that was built in 1990. The facility is heavily utilized by four units: Headquarters Company, 3rd Battalion 161st Infantry Regiment; B Company, 3rd Battalion 161st Infantry Regiment; I Company, 181st Brigade Support Battalion; and Company B Recruiting and Retention Battalion which is supported by the Recruiting Retention Battalion unit.

The facility is outdated both in technology and finishes. This request will support renovations to the facility's functional areas to include the kitchen, restrooms, showers and office. Upgrades will be made to the facility's flooring, ceiling, and lighting. Improvements will ensure American with Disabilities Act (ADA) compliance for accessibility standards in restrooms, shower and kitchen areas. The replacement of appliances and equipment will further increase energy efficiency of the facility.

Phasing major renovation projects in any National Guard facility creates logistical issues and increased cost. During construction all units must be re-stationed to another facility and their equipment relocated. The relocations often cause overcrowding in other facilities and disruptions to daily operations.

The overall quality and functionality rating of Army National Guard capital facilities is only marginal to average. National Guard facilities are at further risk if funding for capital improvement projects is not provided. Renovating this existing building is a more cost effective and sustainable option, extending its useful life, and bringing it up to code. This renovation is much more economical than designing and constructing a new building of this size.

This project supports the agency's strategic goals of Enhanced Preparedness, Modernization, and Efficiency and Effectiveness. A modernized facility enhances training and preparedness activities by providing a safe and fully functional work environment, which ensures an effective, efficient response to emergencies.

The department is seeking the maximum amount of federal Sustainment, Restoration and Modernization funds authorized per site/per year for the construction project. This request is for the reappropriation of \$380,000 of state funding and \$4,150,000 of federal spending authority.

Location

City: Kent

County: King

Legislative District: 033

Project Type

Remodel/Renovate/Modernize (Major Projects)

Growth Management impacts

None, the project will add to the existing facility useful life and community use.

New Facility: No

Funding

Expenditures

2021-23 Fiscal Period

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:35PM

Project Number: 30000917

Project Title: Kent Readiness Center

Funding

Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	4,150,000			4,150,000	
057-1	State Bldg Constr-State	380,000			380,000	
	Total	4,530,000	0	0	4,530,000	0

Future Fiscal Periods

	2023-25	2025-27	2027-29	2029-31
001-2 General Fund-Federal				
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000917	30000917
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:40PM

Project Number: 40000193

Project Title: Ephrata Field Maintenance Shop Addition

Description

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 26

Project Summary

This request is for federal spending authority for an addition to the Ephrata Field Maintenance Shop (FMS). The FMS needs a crane, an additional work bay and upgrades to support the field maintenance shop requirements of the 81st Stryker Brigade Combat Team vehicles.

Project Description**Background:**

The Ephrata FMS was constructed in 1986. It is the regional maintenance shop in the northcentral region of Washington that provides maintenance services to three units located at Wenatchee, Ephrata, and Moses Lake belonging to the 81st Stryker Brigade Combat Team (81st SBCT). While there have been minor upgrades and preservation work over the years, the existing shop is not equipped for modern maintenance work on the eight-wheeled armored Stryker vehicles. The Strykers are larger military vehicles than the regular inventory the FMS maintains. The bay doors are too low and there is no overhead crane for power pack replacement and other repairs.

Project Overview:

This project will design and construct an addition of 2,050 square feet, upgrade the heating, ventilation, and air conditioning (HVAC) and lighting, and install all features required for the Ephrata FMS to provide maintenance and repairs for the Stryker vehicles assigned within the region. The proposed addition is for one work bay of two vehicles depth and installation of a 7 ½ ton bridge crane.

Project Impacts:

The project will create a suitable space for Stryker vehicle maintenance within the region of the state the vehicles are assigned. The additions and updates will allow the large vehicles to be moved in and out of the facility smoothly and for FMS maintenance personnel to easily execute modern maintenance activities with the use of the overhead crane. This will improve the operational readiness of the supported Stryker units of the 81st SBCT in the northcentral region of Washington.

Project Alternatives:

If spending authority is not approved, the Stryker vehicles would have to be transported to the Maneuver Area and Training Equipment Site (MATES) maintenance facility located at the Yakima Training Center. This would require long distance travel (about 100 miles) for routine and emergency maintenance, involve more travel time and expenses for personnel, and increase risk to personnel and equipment by driving large military vehicles on major highways. All these factors will limit the maintenance unit's ability to provide emergency, immediate and regular maintenance work on critical vehicles.

Project Funding:

This request is for \$1,194,000 of federal spending authority. The project will be 100% federally reimbursed funds from the National Guard. There is no requirement for a state match and there are no operational impacts in future years.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?

This project reduces the amount of transportation required to transport Stryker vehicles to other maintenance facilities located 100+ miles away, which prevents the increase of carbon pollution when transporting to other maintenance facilities.

Location

City: Ephrata

County: Grant

Legislative District: 013

Project Type

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:40PM

Project Number: 40000193

Project Title: Ephrata Field Maintenance Shop Addition

Description

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

There are no growth management impacts; the project addition is minimal and supports the same purpose.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	1,194,000				1,194,000
	Total	1,194,000	0	0	0	1,194,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000193	40000193
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:37PM

Project Number: 40000197

Project Title: YTC Dining Facility: Transient Training

Description

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 25

Project Summary

This request is for federal spending authority for the design and construction of a dining facility for the 205th Regiment Regional Training Institute at the Yakima Training Center in support of its various training courses.

Project Description**Background:**

The 205th Regiment Regional Training Institute (RTI) at the Yakima Training Center (YTC) is an Army Training Doctrine (TRADOC) accredited school in the Total Army School System (TASS) that provides military occupational specialty training for certain skills and develops the future leaders of the Washington Army National Guard. These courses are expected to have a continuing high student peak load on a yearly basis. As a regional training anchor, the courses conducted by the 205th Regiment not only train National Guard soldiers from other states and territories, but also train soldiers and officers of the US Army Reserve (USAR) and Active Army (USARMY) Component.

The 205th RTI does not have a dedicated dining facility (DFAC) considering it is located beyond proximity to commercial dining services. The DFAC is essentially the cafeteria, where service members who live in barracks while training can get their daily meals. The DFAC will serve breakfast, lunch, dinner, and midnight meals. A dedicated DFAC is required to ensure that students can be fed without disruption to training.

Project Overview:

This spending authority request is for the design of the dedicated DFAC in state fiscal year (SFY) 2023 and the construction to be executed in SFY 2024. The DFAC will be designed and constructed in accordance with Training and Doctrine Command (TRADOC) requirements of an estimated 63,000 square feet. The DFAC will be co-located with and support the newly built barracks and training facilities at the YTC.

Project Impacts:

The project will provide a dedicated DFAC with the main beneficiaries of students and faculty participating in courses offered by the 205th Regional Training Institute. The DFAC will also benefit the other Army components from nearby locations such as the USAR and USARMY. This project supports the 25-Year Facilities Master Plan by providing a dedicated dining facility that supports the 205th Regiment RTI mission in a regional anchor TRADOC accredited training facility.

Project Alternatives:

If spending authority is not approved and no action is taken, there will be a continued loss of training time as students have to travel off the base and incur increased travel expenses. The use of other mess halls at YTC was considered. However, these facilities are dedicated to transient USARMY units who conduct training year-round at YTC. Furthermore, these facilities do not comply with the criteria provided in the National Guard Pamphlet 415-12 (National Guard Facilities Allowances).

Project Funding:

This request is for federal spending authority only in the amount of \$485,000 this biennium. Construction will be requested next biennium. The project will be 100% federally reimbursed funds from the National Guard. There is no requirement for a state match and there are no operational impacts in future years.

CBS Form Questions:

IT questions all No – N/A

How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency? Please elaborate.

The project seeks to comply with state and federal laws and building codes regarding energy efficiency. This includes an investment to use photovoltaic (solar) and geothermal renewable energy sources whenever possible.

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/11/2020 6:37PM

Project Number: 40000197

Project Title: YTC Dining Facility: Transient Training

Description**Location**

City: Yakima

County: Yakima

Legislative District: 015

Project Type

New Facilities/Additions (Major Projects)

Growth Management impacts

There are no growth management impacts; the project addition is minimal and supports the same purpose.

New Facility: Yes

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	5,486,000				486,000
	Total	5,486,000	0	0	0	486,000

Future Fiscal Periods

Acct Code	Account Title	2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal	5,000,000			
	Total	5,000,000	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000197	40000197
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Washington Military Department
21-23 Minor Works Program

Priority	SubProject #	Location	Building #	Project Title	Federal 001 21-23 Program	State Bond 057 21-23 Program	MIL Capital 364 21-23 Program	Project Total
1	40000223	Camp Murray	Lake	CM Lake Boat Washing Station Installation		\$ 180,000	\$ -	\$ 180,000
2	40000200	Camp Murray	3	CM 3 Interior Lighting Upgrade	\$ 450,000	\$ 150,000		\$ 600,000
3	40000235	Camp Murray	20	CM 20 HVAC System Balancing & Air Sealing		\$ 250,000		\$ 250,000
4	40000198	Camp Murray	20	CM 20 Interior Lighting Upgrade		\$ 650,000		\$ 650,000
5	40000199	Camp Murray	20B	CM 20B Interior Lighting Upgrade		\$ 650,000		\$ 650,000
6	40000207	Camp Murray	20	CM 20 Foot Bridge Replacement		\$ 150,000		\$ 150,000
7	40000229	Camp Murray	NEW	CM Civil Support Team Vehicle Support Building Install	\$ 540,000		\$ -	\$ 540,000
8	40000247	Seattle	RC	Seattle RC Modernization	\$ 750,000	\$ 250,000		\$ 1,000,000
9	40000244	Longview	RC	Longview RC Organizational Parking Install	\$ 235,000	\$ 60,000	\$ -	\$ 295,000
10	40000240	JBLM	9108 CSMS	JBLM 9108 Blast Booth Conversion	\$ 600,000			\$ 600,000
11	40000249	Seattle	RC	Seattle RC Non-Organizational Parking Addition & Gate Upgrade	\$ 750,000	\$ 150,000		\$ 900,000
12	40000218	Camp Murray	8	CM 8 HVAC System Upgrading	\$ 300,000	\$ 200,000	\$ -	\$ 500,000
13	40000246	Moses Lake	RC	Moses Lake RC Emergency Generator Install	\$ 375,000	\$ 125,000	\$ -	\$ 500,000
14	40000065	Anacortes	RC	Anacortes RC Emergency Generator Install	\$ 225,000	\$ 75,000		\$ 300,000
15	40000182	Camp Murray	32	CM 32 Generator Replacement	\$ 700,000		\$ -	\$ 700,000
16	40000253	Yakima	RC	Yakima RC Interior & Exterior Lighting Upgrade	\$ 555,000	\$ 185,000	\$ -	\$ 740,000
17	40000201	Camp Murray	6 & 6A	CM 6, 6A, 15, & 32 Interior Lighting Upgrades	\$ 425,000	\$ 99,000		\$ 524,000
18	40000248	Seattle	RC	Seattle RC Interior & Exterior Lighting Upgrade	\$ 375,000	\$ 125,000		\$ 500,000
19	40000237	Geiger Field	NEW	Vehicle Storage Building Install	\$ 995,000			\$ 995,000
20	30000841	Anacortes	RC	Anacortes & Montesano Security Fence & Gate	\$ 310,000	\$ -	\$ -	\$ 310,000
21	40000226	Camp Murray	80	CM 80 Cannon Pad Install	\$ 15,000	\$ 15,000	\$ -	\$ 30,000
22	40000243	JBLM	9608 UTES	Fort Lewis UTES Communication/IT Upgrade	\$ 120,000		\$ -	\$ 120,000
23	40000242	JBLM	IORC	JBLM IORC Maintenance Catwalk	\$ 300,000		\$ -	\$ 300,000
24	40000204	Buckley	RC	Buckley RC Exterior Lighting Upgrade	\$ 375,000	\$ 125,000	\$ -	\$ 500,000
25	40000255	YTC	870 & MATES	YTC 870 & MATES Emergency Generator Installs	\$ 700,000	\$ 100,000	\$ -	\$ 800,000

Washington Military Department
21-23 Minor Works Program

Priority	SubProject #	Location	Building #	Project Title	Federal 001 21-23 Program	State Bond 057 21-23 Program	MIL Capital 364 21-23 Program	Project Total
26	40000239	Grandview	RC	Grandview RC Emergency Generator Install	\$ 450,000	\$ 150,000	\$ -	\$ 600,000
27	40000252	Snohomish	RC	Snohomish RC Interior & Exterior Lighting Upgrade	\$ 413,000	\$ 138,000		\$ 551,000
28	40000232	Centralia	RC	Centralia RC Emergency Generator Install	\$ 600,000	\$ 200,000	\$ -	\$ 800,000
29	40000241	JBLM	6224 AVN RC	JBLM 6224 Solar Water Heater & Boiler System Conversion	\$ 450,000		\$ -	\$ 450,000
30	40000203	Bremerton	RC	Bremerton RC Interior & Exterior Lighting Upgrade	\$ 375,000	\$ 150,000		\$ 525,000
31	40000245	Montesano	FMS	FMS Gate Upgrade	\$ 80,000			\$ 80,000
32	40000209	Camp Murray	3	CM 3 Remodel	\$ 562,500	\$ 187,500		\$ 750,000
33	40000221	CM	91&92	IT Cabling and AV Infrastructure Upgrading	\$ 500,000			\$ 500,000
34	40000250	Snohomish	2	Snohomish 2 Demolition	\$ 177,000			\$ 177,000
35	40000251	Snohomish	4	Snohomish 4 Demolition	\$ 160,000			\$ 160,000
					\$ 12,862,500	\$ 4,364,500	\$ -	\$ 17,047,000

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This funding request is for additions, alterations, or renovations of state and federally supported facilities of the Washington Military Department.

Project Description**Background:**

This request is for funding of minor works program projects at several of the 450 state-owned or federally licensed facilities throughout the state. These projects will be done using agency personnel and public work contracts.

Project Overview:

Projects include installation of emergency generators; renovation of office areas, kitchens, showers, and restrooms; lighting upgrades; demolition of storage buildings beyond repair and non-mission capable; and installation of solar water heaters. These projects will help to address the issues with the agency's aging facilities, which need significant investments to keep them functioning and operational. Often mission essential equipment cannot be maintained, stored or operated in the current facilities because of size or other support infrastructures. This requires reconfiguration, additions, alterations and/or installation of new systems such as communication, electrical, heating, ventilation and air conditioning (HVAC), and other new building components to meet Department of Defense Anti-Terrorism / Force Protection (AT/FP) and mission requirements.

Project Alternatives:

Renovation and repair of the aged and inefficient facilities, extending their useful life, is often a more cost-effective and sustainable option than replacing them. Constructing brand new facilities would require a cost of millions and millions of dollars. Since this could not possibly be achieved soon, the agency needs to properly maintain the current facilities to support the readiness mission to minimize the impact of emergencies and disasters on people, property, environment and the economy of Washington State.

Project Impacts:

The proposed minor work program projects allow the agency to utilize the existing facilities by altering, modernizing and/or adding new structures or systems to improve building capacity/capability. Properly reconfigured facilities will improve training of Washington's National Guard members, improve the state's disaster response capabilities, and better support the local communities. These projects support five of the six strategic goals of the department: 1) Enhanced Preparedness, 2) Outreach 3) Modernization, 4) Efficiency and Effectiveness, and 5) Youth Development and Education by providing safe, efficient and fully functional facilities for the employees of the Washington Military Department and Washington National Guard.

The facility inventory of the Military Department primarily serves state and federal employees carrying out the mission of the agency such as the Emergency Management Division, Washington Youth Academy, Army National Guard, and Air National Guard. Emergency response personnel from all levels of government use the agency's facilities, not just at the State Emergency Operations Center at Camp Murray but also in local communities across the state. Many of the agency's facilities are also rented by local community groups for recreational and social activities.

Project Funding:

Funding for these projects varies and is determined by the function and location of the buildings. Federally reimbursable funding through the National Guard Master Cooperative Agreement and Military Construction Program ranges from 100% federally reimbursable to 75%, 25%, and 0% (100% state). The Washington Military Department and Washington National Guard are committed to upholding the agency's fiduciary responsibility by being prudent with every dollar received from both state and federal sources, understanding that both funding sources are very limited.

Projects funded 100% by the state will start having bid openings in the beginning of the 2021-23 Biennium. Projects with federal match or 100% federally funded will begin when federal funding is received, which can vary depending on the federal budget status and timing of the National Guard Bureau's release of funds during the Federal Fiscal Year.

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

Description**CBS Form Questions:****How does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency?**

All project seeks to comply with state and federal laws and building codes regarding energy efficiency. This includes an investment to use photovoltaic (solar) and geothermal renewable energy sources when possible. Updated HVAC systems, and improved electrical systems, and better waste management will be sought during these projects.

Location

City: Statewide

County: Statewide

Legislative District: 098

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	12,862,500				12,862,500
057-1	State Bldg Constr-State	4,364,500				4,364,500
	Total	17,227,000	0	0	0	17,227,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

SubProjects

SubProject Number: 40000223

SubProject Title: Camp Murray Boat Washing Station

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000223

SubProject Title: Camp Murray Boat Washing Station

Project Phase Title: Camp Murray Boat Washing Station

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the construction of a boat washing station at the Camp Murray Campground. The washing station, when constructed, will help users comply with RCW 77.15.253 and 77.15.290 in accordance with Washington Department of Fish and Wildlife Invasive Species Management Protocol which states that "State law requires that boats and other trailered equipment used in an aquatic environment should be free of aquatic animals and plants whenever removed from a water body in order to avoid transport of invasive species to a new water body."

Project Description

As boats come out of American Lake, it is expected that they are cleaned free of any environmental contaminants such as invasive species that may impact other bodies of waters, lake, or other water location. Currently, there is no place at the Camp Murray Campground Boat Launch for users to clean their boats after they come out of American Lake. This situation pose potential environmental threats as there might be contaminants that may pollute other lakes and streams. The washing station, when constructed, will help users comply with RCW 77.15.253 and 77.15.290 in accordance with Washington Department of Fish and Wildlife (WDFW) Invasive Species Management Protocol which states that "State law requires that boats and other trailered equipment used in an aquatic environment should be free of aquatic animals and plants whenever removed from a water body in order to avoid transport of invasive species to a new water body."

This request is for the design and construction of a boat washing station at the Camp Murray Campground for State Fiscal Year 2023. This project is expected to be completed by May 2024.

This project will provide users with a facility to clean their boats and watercrafts, removing any contaminants prior to entry or upon exit of American Lake. This will reduce the potential for cross-contamination into American Lake or other waters, and allow users to avoid deterioration of their own personal watercrafts. Bottomline, it will help users comply with state law and WDFW Invasive Species Management Protocol. If no action is taken, then cleaning is delayed and possibly avoided by boaters and watercraft users due to difficulty in cleaning without the availability of a proper cleaning facility. Without cleaning cross-contamination will most likely continue causing issues with the lakes throughout Washington.

The funding requirement for this project is \$180,000 of state funding.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000223

SubProject Title: Camp Murray Boat Washing Station

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	180,000			180,000
	Total	180,000	0	0	180,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000200

SubProject Title: Camp Murray Bldg. 3 Lighting System Upgrade

Version: C1 21-23 BN Capital Budget Request

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000200

SubProject Title: Camp Murray Bldg. 3 Lighting System Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the design and implementation of a lighting upgrade for building 3 on Camp Murray. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

Background:

This building has over 200 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Most work areas in the building have no windows and therefore have no access to natural light. Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$400,000. There is a federal share of 75%, \$300,000, from the National Guard and a 25% match requirement from the state of \$100,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$500 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – would not be left on. Design for this space reduces over lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system at a later date.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ?

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within building 3, which is the Joint Services Support Directorate, providing a one-stop center for all Washington Guard veteran and family readiness services. In addition to the improved occupant comfort mentioned above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures

245 - Military Department Capital Project Request

2021-23 Biennium

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000200

SubProject Title: Camp Murray Bldg. 3 Lighting System Upgrade

thereby reducing overall costs to the taxpayers.

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reappropriations
001-2	General Fund-Federal	450,000			450,000
	Total	450,000	0	0	450,000

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reappropriations
057-1	State Bldg Constr-State	150,000			150,000
	Total	150,000	0	0	150,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Report Number: CBS002

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000200

SubProject Title: Camp Murray Bldg. 3 Lighting System Upgrade

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

SubProject Number: 40000235

SubProject Title: Camp Murray 20 System Balancing and Air Sealing

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000235

SubProject Title: Camp Murray 20 System Balancing and Air Sealing

Project Phase Title: Camp Murray 20 System Balancing and Air Sealing

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project is for the sealing of the exterior building envelope and subsequent balancing of the HVAC system for building 20 at Camp Murray. This project will be completed after the construction and installation of a modified main roof-top unit. This project is intended to reduce the high operating hours of the heating, ventilation, and air conditioning (HVAC) equipment throughout the building and increase occupant comfort and safety.

Project Description

Building 20 was designed and constructed to withstand earthquakes with a magnitude of over 9.0 on the Richter Scale. It sits upon several skids that allow the building to move freely in such an event. As part of the original design, airflow throughout the building was intended to originate from seams in the exterior walls, ventilation via the elevator shaft, and other interstitial spaces within the building. Since technology has improved and previous HVAC systems replaced with economizers, fresh air requirements are met through economizing and dedicated outside air (DOA) systems. These gaps and seams now only provide drafts, discomfort, and increased heating load – all of which increase total electrical consumption. Operation of the existing unit generates over 50 work orders per quarter, degrade occupant comfort, and alone accounts for 5% of the yearly utility budget. Upgrading the technology used to heat and cool the building would save over \$120,000 per year in electricity costs. Air-sealing the building envelope and balancing the HVAC systems will shorten the simple payback of replacing only the RTU main to ~8 years and will increase occupant comfort and save more than 200 man-hours per year. ?

The request for this biennium requires a design study and pressure testing for state fiscal year (SFY) 2022 and construction for SFY 2023 with a total cost of \$250,000. The request will produce a well-sealed building that can withstand external environmental impacts, increased indoor air quality, and reduced electrical consumption allowing existing, on-site generators to perform more efficiently and less often. This process is in line with the Governor's Executive Order 20-01 which will reduce consumption of electricity, budget, and manpower; all of which are in short supply. It will serve the staff of the Emergency Management Division and subsequent, affiliated divisions and agencies activated during emergencies operating out of the State Emergency Operations Center, including the Army National Guard, Air National Guard.?

Air sealing will increase occupant comfort and reduce over-all building electrical demand. System balancing will reduce uneven air-distribution and allow for high-efficiency operation of the HVAC system. As a result, operating costs will be reduced, the building will be more resilient, and equipment will last much longer due to reduced run-time.

Additionally, air-sealing can reduce electrical consumption due to increased load from outside air by over 20%. The cost of not acting would allow cold/hot complaints to continue; surpassing staff's ability to respond. Inaction would ensure that utility costs are maximized and discomfort for occupants remains steady. Inaction would circumvent the mandates set-forth in Executive Order 20-01 and the energy investment and savings act of Energy Independence and Security Act of 2007. Back-up systems in place at this state emergency center will operate for no more than 10 days during an outage due to the enormous power demand of the existing HVAC unit. With the proposed upgrade, existing generators could run for over 25 days. ??

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

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2021-23 Biennium

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000235

SubProject Title: Camp Murray 20 System Balancing and Air Sealing

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	250,000				250,000
	Total	250,000	0	0	0	250,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

SubProject Number: 40000198

SubProject Title: Camp Murray 20 Lighting System Upgrade

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000198

SubProject Title: Camp Murray 20 Lighting System Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the design and implementation of an interior lighting upgrade for building 20 on Camp Murray. The project includes lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable. This building hosts the State Emergency Operations Center and Emergency Management Division. The project will reduce energy costs, correct low lighting levels, and improve occupant comfort.

Project Description**Background:**

Building 20 on Camp Murray is host to the Emergency Management Division and State Emergency Operations Center. This building has over 300 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12 and T-8 fluorescents ranging in wattage from 84 to 135 watts (W). Building 20 is consistently one of the highest energy users on Camp Murray with energy costs ranging from \$15,000 to \$30,000 per month depending on activation levels. Lighting levels are low, motion sensors fail to see occupants and dark areas prevail at workstations due to shadows cast by high-walled cubicles and tall equipment. Manually controlled lights are often left on after hours despite many announcements and trainings with building occupants.

Project Overview:

The request for this biennium is a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request with a total cost of \$650,000. The project will produce a building with safe working environments, well-lit interior spaces reducing eyestrain/fatigue, lower energy consumption and lower costs. Office space lighting will have the ability for not only brightness level adjustments, but also color temperature. The latter is an important strategy to reduce seasonal affective disorder (SAD). By replacing all fixtures and upgrading controls, the occupants have greater control over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – will not be left on.

In addition to creating a well-lit space and safe working environment for tenants, replacing the lighting system in the building will reduce energy costs by up to 8%, \$1,800 a month on average. This reduced electrical load for the building's essential function will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage.

Design for this project reduces over-lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system at a later date. If phasing is desired, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This temporary solution does not address the issue of lighting levels, yet it has a high draw on manpower, resources, operating costs, and time.

Alternatively, replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupant's workflow, and cost money in labor and equipment.

Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within building 20, the Emergency Management Division and associated divisions and outside local, state, and federal agencies operating out of the State Emergency Operations Center. This project will reduce long term energy consumption and costs by replacing multiple aging fixtures with a modern and efficient fixtures.

The reduced cost of operation through a modified lighting system will align with the Military Department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power

Capital Project Request

2021-23 Biennium

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000198

SubProject Title: Camp Murray 20 Lighting System Upgrade

consumption and increase power reliability. This project is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.? As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	650,000			650,000
	Total	650,000	0	0	650,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

SubProject Number: 40000199

SubProject Title: Camp Murray 20B Lighting Upgrade

Capital Project Request

2021-23 Biennium

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Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000199

SubProject Title: Camp Murray 20B Lighting Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the design and implementation of a lighting upgrade for building 20B on Camp Murray. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description**Background:**

This building has over 200 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Building 20B is consistently one of the highest energy users on Camp Murray with energy bills ranging from \$10,000 to \$15,000 per month depending on activation levels. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles, motion sensors failing to see occupants, and rooms with tall equipment. Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request with a total cost of \$650,000. The request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – would not be left on. Design for this space will over lit spaces by decommissioning excess fixtures. Special design will also give the system the ability to connect to the energy management control system at a later date.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$1,300 per month on average as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This has an increased cost of manpower, resources and time. This temporary solution does not address the issue of lighting levels appropriately, especially over-lighting which is common without the proper lighting layout design. ??

Additionally, replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one Maintenance Mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within building 20B: Emergency Management Division, Information Technology Division, and other local, state, and federal agencies operating out of this building as an extension of the State Emergency Operations Center.

This project will reduce long term operating costs by replacing multiple aging fixtures with modern and efficient fixtures. The reduced cost of operation through a modified lighting system will align with the department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO)

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000199

SubProject Title: Camp Murray 20B Lighting Upgrade

20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	650,000			650,000
	Total	650,000	0	0	650,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

SubProject Number: 40000207

SubProject Title: Camp Murray Bldg. 20 Foot Bridge Replacement

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000207

SubProject Title: Camp Murray Bldg. 20 Foot Bridge Replacement

Project Phase Title: Camp Murray Bldg. 20 Foot Bridge Replacement

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project request is for the replacement of the 22 year-old metal footbridge from the parking area to the entrance of building 20. The current footbridge is deteriorating due to age and shows signs of rust build up and compromised structural integrity.

Project Description**Background:**

The existing footbridge connecting the personally owned vehicle (POV) parking lot and the main entrance of the State Emergency Operations Center and Emergency Management Division (EMD) building, building 20 is already showing signs of compromised structural integrity and safety concerns such as rust build up. Upon inspection, the work required was determined to be beyond maintenance work. The bridge is designed to move with the building and slide against the walkway during an earthquake. The metal brackets underneath are corroded and rusting, the clamps holding the grating down are failing causing the grating to come loose causing a safety hazard. There are 130 regular facility users with daily visitors from other department divisions, local, federal, and state entities. Per facility inventory, the bridge was constructed 22 years ago thus a need for replacement is being requested.

Project Overview:

The project includes the removal and construction of a new metal footbridge connecting the POV parking lot and the main entrance of the building. The design is programmed for State Fiscal Year (SFY) 2022 while construction will be on SFY 2023. The total cost of the project is \$100,000. There is no federal funding support for this building since it is occupied solely by state staff.

Project Impacts:

The project will mitigate the risk and ensure continuous safety of the 172 regular facility users and visitors of the EMD. If no action will be taken, there will be a continuous threat for facility failure at the event of an earthquake and possible injury to occupants should the footbridge continue to deteriorate and fail.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reappropriations
057-1	State Bldg Constr-State	150,000			150,000
	Total	150,000	0	0	150,000

Capital Project Request

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000207

SubProject Title: Camp Murray Bldg. 20 Foot Bridge Replacement

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

SubProject Number: 40000229

SubProject Title: Camp Murray Vehicle Storage Building

Project Phase Title: Camp Murray Vehicle Storage Building

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the construction of an 800 square foot vehicle storage building (VSB) at Camp Murray to support the requirement of the Civil Support Team/Weapons of Mass Destruction unit of the Washington Army National Guard (WAARNG). The vehicle storage building will accommodate the new Common Analytical Laboratory System mobile platform which is larger and taller than any facilities currently available on Camp Murray.

Project Description

The Civil Support Team/Weapons of Mass Destruction (CST/WMD) unit will be receiving a new vehicle, a Common Analytical Laboratory System (CALS Increment 1) to support its mission. The vehicle has a very specific storage facility dimension requirement of 16 feet high x 20 feet wide x 40 feet long in congruence with the National Guard Bureau CST Program. In addition, it also needs an infrared heater to maintain a steady storage temperature for the sensitive components of the vehicles such as analytical equipment, inkjet printers, and servers. The present storage facility of the CST and the facility inventory of Camp Murray cannot accommodate said specific facility requirement. Since WAARNG has a shortfall or deficit for a vehicle storage building, constructing a new vehicle storage building has been identified as the best option.

This federal spending authority request is for the design and construction of an 800 square foot vehicle storage building for the Detachment 10, CST/WMD of the WAARNG. Both design and construction is programmed for fiscal year 2022. The total cost of the project is \$540,000 and funded 100% with federally reimbursable funds from the National Guard.

The project will address the specific facility requirement of the new vehicle of the CST/WMD in support of its mission.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000229

SubProject Title: Camp Murray Vehicle Storage Building

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	540,000			540,000
	Total	540,000	0	0	540,000
Future Fiscal Periods					
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000247

SubProject Title: Seattle Readiness Center Modernization Work

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000247

SubProject Title: Seattle Readiness Center Modernization Work

Project Phase Title: Seattle Readiness Center Modernization Work

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the modernization of the active facilities of the 47-year-old Seattle Readiness Center to meet the continuing need of the units stationed in the building. Capital improvement work includes the minor construction of an additional shower facility, improvement of the main entrance; installation of unit signage; and construction of new walls in open administrative areas.

Project Description**Background:**

There are currently six (6) units within the 81st Stryker Brigade Combat Team (SBCT) stationed in the Seattle Readiness Center with a total drilling population of 95 officers and 391 enlisted soldiers who report one weekend every month and two weeks during the year. On a regular weekday, there are 62 fulltime personnel that use the facility.

The readiness center currently has only two (2) showers for male service members and four (4) showers for female service members, which is not enough to accommodate the fulltime and drilling soldiers. The soldiers must wait in line to take a shower or are not able to shower at all due to the facility shortfall.

The soldiers assigned to the Brigade staff: Personnel, Intelligence and Logistics located in the administrative area are presently working in a dimly lit open office layout with disorganized electrical and communications wiring, unsecured document filing and poor work flow conditions.

The outdoor façade of the main entrance of the facility is a trip hazard to facility users and visitors. The brick path is uneven and falling apart. The facility does not have any signage representing the units or the building itself.

Project Overview:

Capital improvement work includes the minor construction of an additional twelve (12) shower facility; improvement of the main entrance; installation of a unit sign; and construction of new walls in four (4) open administrative offices.

The project will address the lack of showers stalls and meet soldiers' hygiene requirements during drill days and after daily physical training. The wall construction in open administrative spaces will improve each team's workflow and provide safe storage of data records. The improvement of the main entrance will eliminate safety risk hazards and produce a positive image of the facility which will enhance the soldiers morale and pride.

The proposed project will have a fund sharing of 75% federal and 25% state. The total cost is \$1,000,000 with \$750,000 federally reimbursed funds from the National Guard and \$250,000 state match requirement.

Project Alternatives:

If the issues are not addressed, the facility degradation will continue and it will impact the readiness of the units assigned to the facility. No other alternatives were explored given the present antiquated condition of the readiness center. This is the minimum level of work necessary to meet mission requirements. The department is in the process of purchasing land and completing a predesign study for a new readiness center in King County, but construction will not be completed for another 10-15 years.

Project Impact:

The budget request will positively impact the mission readiness of the six (6) units of the Washington Army National Guard within the 81st Stryker Brigade Combat Team, specifically 548 facility users. Agency clients include both Army and Air National Guard, emergency response personnel at all levels of government, and the local communities. All should experience more responsive and expanded services through the efficiencies of the proposed improvements.

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000247

SubProject Title: Seattle Readiness Center Modernization Work

The facility improvement will provide the units with a mission capable facility in accordance with the ARNG Facility Allowances and Requirements and Facilities Design Guide for a Readiness Center while awaiting for a construction of a new readiness center which will be 10-15 years from now per WAARNG Long Range Construction Plan.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	750,000				750,000
	Total	750,000	0	0	0	750,000

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	250,000				250,000
	Total	250,000	0	0	0	250,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SEATTLE READINESS CENTER



The Seattle Readiness Center (entrance shown in inset) is 47 years old and needs several updates to modernize the facility and extend its useful life. The exterior of the building is showing signs of wear and tear.

1. Designated areas for administrative work are outdated. Wood paneling on the walls is damaged and rigid, and modern cabling solutions for technology require installation upgrades.

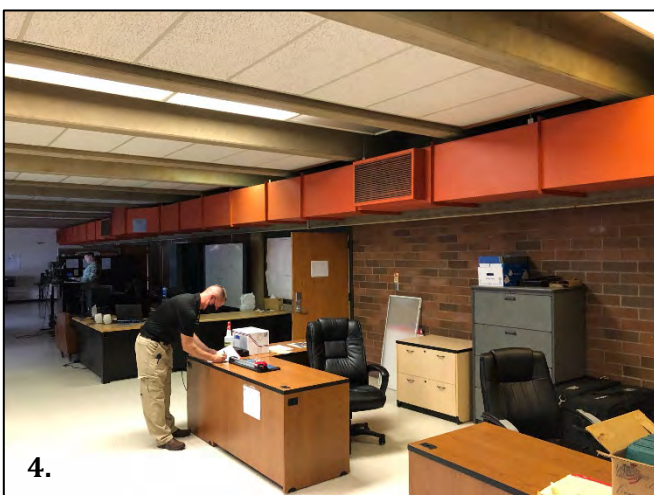
2. The stones comprising the main entrance are uneven and showing noticeable breakage and wear. This creates a tripping hazard for occupants.

3. Shower facilities inside the readiness center are showing significant wear. The fixtures are aging and accruing substantial buildup, and mold is appearing in the grout between the tiles.

4. The open bay, designated for administrative work, is inadequate for current staffing needs. The age of the area renders it increasingly incompatible with staff technology needs, and the lighting is dim



1.



4.



3.



2.



SEA RC SUSTAINMENT PROJECTS



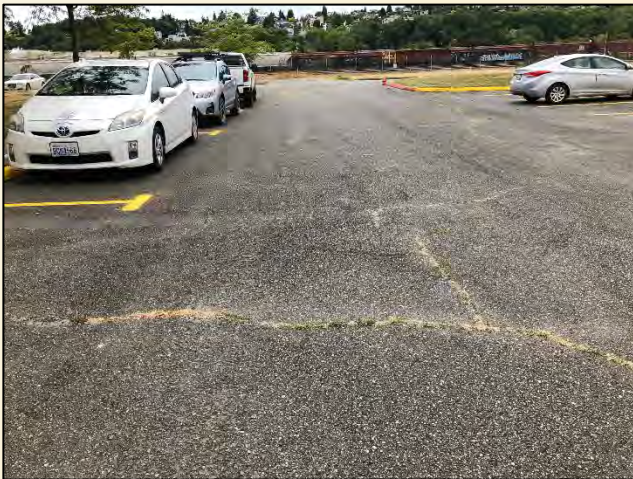
The kitchen area in the Seattle Readiness Center has been shut down for almost three years because the Washington Department of Health deemed it unsafe. Unit cooks are unable to use this facility to prepare meals for assigned personnel.



Left: The entryway to the kitchen is unsafe. The vinyl flooring is failing due to age, and the traction strips have begun to peel away, creating a tripping hazard on the ramp. Center: Peeling paint shows damage to the walls above the main sink. Left: The plumbing underneath the sinks is faulty and leaking, causing the floor to be stained beneath it.



SEA RC SUSTAINMENT PROJECTS



The parking lot that is the designated parking area for personally owned vehicles is thoroughly cracked and contains uneven surfaces. Both conditions present hazards for drivers in moving vehicles, and repairs are necessary to restore the lot to appropriate safety standards.



Ceiling tiles in the Seattle Readiness Center are stained as a result of faulty drainage pipes. Proposed improvements to the facility repairs to stop water accumulation and replacement of the unsightly tiles.



All the latrines in the Seattle Readiness Center still contain the fixtures from the original construction. All are now outdated, which poses a health hazard to building occupants. Proposed latrine renewals include touch-free bathroom items (ie. towel and sanitizer dispensers, faucets) to improve health and safety conditions for the 518 patrons of the facility.

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000244

SubProject Title: Longview Organizational Unpaved Parking

Project Phase Title: Longview Organizational Unpaved Parking

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the minor construction of a 3,000 square yard unpaved (gravel) military owned vehicle (MOV) parking lot, 1,800 linear feet of standard military fence, one (1) military vehicle gate, and two (2) personal gates at the Longview Readiness Center. This includes all other required surface regrading/resurfacing, eight (8) electrical light posts, necessary trenching and boring, fixtures and miscellaneous items necessary for a complete project.

Project Description

The open and vacant lot behind the Longview Readiness Center has been idle and thus a loss of opportunity for the department and the Washington Army National Guard (WAARNG) in terms of maximizing the utilization of the property footprint. The units stationed at the Longview Readiness Center have a shortage of available space for military vehicle parking. The military parking area is open and accessible to the public thus it poses security concerns for the parked military vehicles as well as to the soldiers working at the facility.

The project includes construction of a 3,000 square yard unpaved military vehicle parking lot, 1,800 linear feet of standard military fence, one (1) vehicle gate, two (2) personal vehicle gates, and eight (8) electrical light posts. The project design is being executed in state fiscal year 2022 while construction is expected be completed in state fiscal year 2023.

Total project cost is \$295,000 with almost 80% being funded with federally reimbursed funds from the National Guard. The federal share is \$235,000 with a state match requirement of \$60,000.

The proposed unpaved organizational parking and fencing will address the shortage of military vehicle parking for the vehicles and equipment of the Alpha Company, 898 Brigade Engineer Battalion and Bravo Company, 2nd Battalion 146th Field Artillery Battalion of the 81st Stryker Brigade Combat Team (SBCT). The fence, gates, and increased exterior lighting will ensure the utmost security of the vehicles and equipment as well as the safety of any personnel working at the facility.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reappropriations
001-2	General Fund-Federal	235,000			235,000
Total		235,000	0	0	235,000

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000244

SubProject Title: Longview Organizational Unpaved Parking

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	60,000			60,000
	Total	60,000	0	0	60,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
Total	0	0	0	0

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000240

SubProject Title: Combined Support Maintenance Shop Blast Booth Conversion

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000240

SubProject Title: Combined Support Maintenance Shop Blast Booth Conversion

Project Phase Title: Combined Support Maintenance Shop Blast Booth Conversion

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the conversion of the blast room of the Washington Army National Guard (WAARNG) Combined Support Maintenance Shop (CSMS). This project seeks to convert the blast room into a paint booth with the same footprint of 3,230 square feet and be located at Joint Base Lewis McChord. This project aims to address the absence of a paint booth which is a key component of a CSMS in the performance of its federal and state mission.

Project Description

The Combined Support Maintenance Shop (CSMS) at Joint Base Lewis McChord (JBLM) does not have a paint booth to perform painting and other paint related maintenance work on military vehicles and equipment. When it was constructed in December 2012, the paint booth was not included in the design due to budgetary restrictions. The building has a blast booth/room that is not being used and is no longer be needed by the CSMS unit. Instead of constructing a new CSMS paint booth, the blast room will be converted into a paint booth which will be of lesser cost.

Currently, all vehicles and equipment painting requirements are being done through external parties thus increasing the CSMS' annual cost of operations. This limits the unit's capability to ensure repairs are completed in a timely manner and as prescribed by repair and quality control standards. Completion of the project will reduce the annual operating costs and improve the timeliness of repairs and maintenance.

This project is for the design and construction/conversion of the 3,230 square feet blast room into a paint booth/room to meet the mission requirement of the CSMS. Design is scheduled for state fiscal year 2022, with construction during state fiscal year 2023.

This federal spending authority request is for a total cost of \$600,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

Project Alternatives:

The only alternative is to continue to contract painting requirements to external parties. This will result in a continuous increase of annual operating costs and a disadvantage to the CSMS.

Project Impact:

The blast room conversion into a paint booth will primarily benefit the CSMS personnel and the nineteen (19) units being supported by the Logistics (G4) Surface Maintenance Management.

This project would support the 25-Year Master Plan specifically the Long Range Construction Plan on the WAARNG Surface Maintenance facilities in JBLM to include the CSMS, and Unit Training Equipment Site (UTES).

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000240

SubProject Title: Combined Support Maintenance Shop Blast Booth Conversion

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	600,000			600,000
	Total	600,000	0	0	600,000
Future Fiscal Periods					
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000249

SubProject Title: Seattle Parking Lot Paving and Gate Upgrade

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000249

SubProject Title: Seattle Parking Lot Paving and Gate Upgrade

Project Phase Title: Seattle Parking Lot Paving and Gate Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the repair, regrading, expansion and asphalt paving of the graveled personally owned vehicle parking lot located at the Seattle Readiness Center and Field Maintenance Shop to address the parking deficit and safety hazard concerns. In addition, the project will upgrade the failing main gate with a motorized cantilever style gate.

Project Description

The total drilling population at the Seattle Pier 91 site is 486 coming from seven (7) units of the Washington Army National Guard under the 81st Stryker Brigade Combat Team and the Field Maintenance Unit 1. The existing personally owned vehicle (POV) parking lot on the site has a 300 vehicle capacity thus the unit has a dire need for additional parking. Soldiers currently must park their vehicles at a great distance posing a life, health, and safety concern walking along city streets and reducing response time in the event of an emergency. The existing condition of the graveled parking lot poses safety concerns of trip hazards and possible vehicle damage from large potholes and uneven surfaces, especially during times of darkness.

The existing main gate is already failing with a history of work orders for complete non-functionality. This is a critical security issue to the site both for inaccessibility during a failure and risk to personnel and equipment if gate failure leaves the area unsecured. The Seattle Pier 91 site has freight railroad on two sides and commercial businesses on the other two. During hours of darkness the surrounding area is not well lit and has a transient homeless population.

Project Overview:

The project includes repair, regrading, and paving of the existing POV parking lot between the Readiness Center and FMS. An additional 4,200 square yards of parking, equivalent to 120 parking spaces, of POV paved parking will be added to the existing lot. The failing gate will be replaced with an upgraded automatic cantilever style gate.

The paving and expansion of the uneven POV parking will mitigate safety and risk hazards and provide the much needed additional parking space for soldiers assigned to the site. The upgraded gate will ensure soldier accessibility and security of National Guard assets.

The proposed project is a combined support of 75% federal and 25% state and 100% federal. The total cost is \$900,000 with \$750,000 of federally reimbursed funding from the National Guard and \$150,000 state match requirement.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000249

SubProject Title: Seattle Parking Lot Paving and Gate Upgrade

<u>Funding</u>		<u>Expenditures</u>		<u>2021-23 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>New Approps</u>
001-2	General Fund-Federal	750,000			750,000
	Total	750,000	0	0	750,000

<u>Funding</u>		<u>Expenditures</u>		<u>2021-23 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>New Approps</u>
057-1	State Bldg Constr-State	150,000			150,000
	Total	150,000	0	0	150,000

		<u>Future Fiscal Periods</u>			
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
	Total	0	0	0	0

		<u>Future Fiscal Periods</u>			
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000218

SubProject Title: Camp Murray Bldg. 8 HVAC System Replacement



SEA RC PARKING/ROAD IMPROVEMENTS



There is a shortage of adequate parking space at the Seattle Readiness Center. Several lots, like the lots pictured below, are gravel lots for personally owned vehicles. The parking spaces are partially covered in vegetation and the gravel is becoming sparse, creating unstable conditions for moving vehicles. Such conditions also are not ideal for wet weather, as water pooling could become an additional safety hazard.



The gravel parking lot outside the field maintenance shop is 52 years old and acts as an access way for 141 wheeled vehicles, 188 trailers, 4 tracked vehicles, 18 fuel trucks, and 37 Heavy Expanded Mobility Tactical Trucks. As a result of age and usage, the area is badly damaged

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000218

SubProject Title: Camp Murray Bldg. 8 HVAC System Replacement

Project Phase Title: Camp Murray Bldg. 8 HVAC System Replacement

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the replacement of the Heating, Ventilation and Air Conditioning (HVAC) system of the 20 years old Information Processing Building, building 8, on Camp Murray.

Project Description

The HVAC system in Building #8 on Camp Murray is not efficient and is failing. Despite multiple maintenance repairs and component replacements, the HVAC systems currently do not have the capacity to maintain the heating/cooling load for the building. There are network servers and battery back-up systems in the building which requires 24/7 cooling systems and reliable ventilation in the event of overheating or other systems failures. System failures have caused building evacuations as a result of batteries off-gassing toxic fumes. Because of the lack of fresh air and exhaust, these gasses were circulated throughout the building through supply ductwork and into offices and onto tenants and customers.

Existing HVAC systems at this building have undergone regular scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system. Additionally replacement parts are no longer available, the condenser is nearing the end of its useful life, and new refrigerant standards are not compatible with the existing built-in air handler

The request will replace and upgrade the HVAC systems as scheduled according to their useful life. This will avoid further critical system failures which would cost considerably more in labor, equipment, and possible damage to information technology equipment.

The project is supported with \$300,000 in federally reimbursed funds from the National Guard with a state match requirement of \$200,000 for a total cost of \$500,000.

By replacing and upgrading the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000218

SubProject Title: Camp Murray Bldg. 8 HVAC System Replacement

<u>Funding</u>		<u>Expenditures</u>		<u>2021-23 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>New Approps</u>
001-2	General Fund-Federal	300,000			300,000
	Total	300,000	0	0	300,000

<u>Funding</u>		<u>Expenditures</u>		<u>2021-23 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>New Approps</u>
057-1	State Bldg Constr-State	200,000			200,000
	Total	200,000	0	0	200,000

		<u>Future Fiscal Periods</u>			
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
	Total	0	0	0	0

		<u>Future Fiscal Periods</u>			
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000246

SubProject Title: Moses Lake Standby Generator & Lighting Replacement

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000246

SubProject Title: Moses Lake Standby Generator & Lighting Replacement

Project Phase Title: Moses Lake Standby Generator & Lighting Replacement

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions. The Moses Lake Readiness Center is an emergency support site for Moses Lake and neighboring communities in the event of a disaster or catastrophic event. Without power, National Guard staff stationed at this site cannot perform their duties to meet mission requirements. Additionally, upgraded lighting will reduce overall power consumption and load allowing for the install of a smaller, less-expensive generator with the same capabilities. This project is in line with Executive Order 13843, Energy Independence and Security Act (EISA) of 2007, and agency resilience preparation goals.

Project Description

Background:

The Moses Lake Readiness Center is a grid-tied facility which relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond and support the community, state, and country. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate on both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

This request for a design study in state fiscal year (SFY) 2022 and construction in SFY 2023. Both phases are included in this request. The project will produce well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects.

This request will produce a natural gas-powered generator with propane back up. Installation will be outside of the motor pool utilizing space east of the building not currently being utilized. The old system will be demolished, and that space will then be freed up for additional vehicles in the motor pool. Lighting fixtures at the facility will be replaced with more energy efficient options such as LED fixtures that also allow for brightness and color temperature adjustments with upgraded controls. Design is a four to six month process followed by a six month construction period.

This project at the Moses Lake Readiness Center is supported with 75% federally reimbursed funds from the National Guard. The 25% required state match is \$125,000 for a total project cost of \$500,000.

Project Impacts:

Reducing energy consumption through improved lighting layout and fixtures and adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow the communities served by this readiness center to have a conditioned facility to which they can evacuate, service members and first responders a place to prepare and serve food, and a strategic site for joint command and field units to operate. Inaction will ensure that the readiness center stays without power during an emergency; completely unusable, unsafe, and uninhabitable when needed most by the community and units of the National Guard to carry out their mission.

Specifically, this project will impact all tenants, Army National Guard B Company 161st Infantry Regiment Unit, and its A Company 3rd Battalion Detachment, all other building occupants, tenants and customers to include those who rent the facility and emergency responders who train and operate there during activations.

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000246

SubProject Title: Moses Lake Standby Generator & Lighting Replacement

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Moses Lake

County: Grant

Legislative District: 013

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	375,000				375,000
	Total	375,000	0	0	0	375,000

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	125,000				125,000
	Total	125,000	0	0	0	125,000

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000246

SubProject Title: Moses Lake Standby Generator & Lighting Replacement

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000065

SubProject Title: Emergency Generator-Anacortes

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000065

SubProject Title: Emergency Generator-Anacortes

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions. The Anacortes Armory is an emergency support site for Anacortes and neighboring communities in the event of a disaster or catastrophic event. Without power, National Guard staff stationed at this site cannot perform their duties to meet mission requirements.

Project Description**Background:?**

The Anacortes Armory is a grid-tied facility which relies on utility power, water, and other utilities. In the event of an emergency, the armory and its staff must be prepared to respond and support the community, state, and country. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

This project will produce a natural gas-powered generator with propane back up. The project requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023 to provide onsite energy generation capability. Both phases are included in this request. The project will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This project at the Anacortes armory is supported with 75% federally reimbursed funds from the National Guard in the amount of \$375,000. The 25% required state match is \$125,000 for a total project cost of \$500,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow the communities served by this readiness center to have a conditioned facility to which they can evacuate, service members and first responders a place to prepare and serve food, and a strategic site for joint command and field units to operate. Inaction will ensure that the armory stays without power during an emergency; completely unusable, unsafe, and uninhabitable when needed most by the community and units of the National Guard to carry out their mission.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000065

SubProject Title: Emergency Generator-Anacortes

Location

City: Anacortes

County: Skagit

Legislative District: 040

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	225,000				225,000
	Total	225,000	0	0	0	225,000

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	75,000				75,000
	Total	75,000	0	0	0	75,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000182

SubProject Title: Emergency Generator Building 32

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Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000182

SubProject Title: Emergency Generator Building 32

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions. The United State Property and Fiscal Office (USPFO) occupies building 32 on Camp Murray. The USPFO warehouse distributes supplies and gear to Guardsman across the state, manages the Washington Arming National Guard federal budget and payroll offices, as well as several other mandatory operations. Without power to this building, National Guard staff stationed at this site cannot perform their support duties which have a detrimental impact to all local and satellite facilities whose mission it is to protect their local area residents.

Project Description

Camp Murray building 32 is a grid-tied facility which relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

The request for this biennium does not require a design study since one was performed in 2019. Construction would begin and end in state fiscal year 2023. The request will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This request will produce a natural gas-powered generator with propane back up. Installation will happen outside of the motor pool utilizing space east of the building not currently being used. The old system will be demolished, and that space will then be freed up for additional vehicles in the motor pool.

This project is 100% federally reimbursed funds from the National Guard in the amount of \$700,000. There is no state match requirement and no future operating budget impacts.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. This capability will allow the critical services of the USPFO to continue when needed most. Inaction will ensure that the USPFO runs on a 40-year-old unit risking power outage and insufficient loading of the generator.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000182

SubProject Title: Emergency Generator Building 32

an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Health, Safety and Code Requirements (Minor Works)

Program (Minor Works)

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	700,000			700,000
	Total	700,000	0	0	700,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000253

SubProject Title: Yakima Airport Readiness Center Lighting Upgrade

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000253

SubProject Title: Yakima Airport Readiness Center Lighting Upgrade

Project Phase Title: Yakima Airport Readiness Center Lighting Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the design and implementation of a lighting upgrade for the Yakima Airport Readiness Center. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

This building is currently lit by over 430 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2023 and construction for SFY 2024. Both phases are included in this request for a total cost of \$740,000. There is a federal share of 75%, \$555,000, from the National Guard and a 25% match requirement from the state of \$185,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$3000 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is approved, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 60,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ?

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Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000253

SubProject Title: Yakima Airport Readiness Center Lighting Upgrade

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all the units within this building. In addition to the improved occupant comfort mentioned above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures thereby reducing overall costs to the taxpayers.

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Yakima

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	555,000				555,000
	Total	555,000	0	0	0	555,000

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	185,000				185,000
	Total	185,000	0	0	0	185,000

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000253

SubProject Title: Yakima Airport Readiness Center Lighting Upgrade

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000201

SubProject Title: Camp Murray Bldgs. 6, 6A, 32, & 36 Lighting System Upgrade

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000201

SubProject Title: Camp Murray Bldgs. 6, 6A, 32, & 36 Lighting System Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

Design lighting layout to accommodate changes to cubical configurations. De-lamp to prevent over-lighting. Install color variant and dimmable fixtures in office spaces to alleviate SADS. Install occupant controls and vacancy sensors where applicable.

Project Description

Background:

Combined these building have over 500 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture – some with Polychlorinated biphenyls (PCB) ballasts which should have been decommissioned over two decades ago. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is approved, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8% (\$2000/month on average) as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

All four buildings are federally supported, however only three of the four buildings are supported with 100% federally reimbursed National Guard funds. The work in one building, building 15, will be reimbursed up to 75% with federal National Guard funds. This limits the state's share of this project to \$99,000, with a total cost of \$524,000.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 60,000 hours of runtime). Once the ballast expires, so does the lamp. This would be a waste of manpower, resources, operating costs, and time. This band-aid does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ??

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete. By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – would not be left on. Design for this space reduces over lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system at a later date.

Project Impacts:

Specifically, this project will impact all tenants within these buildings including the Chemical Support Team (chemical spill response), US Property and Fiscal Office (USPFO), Construction Facilities Maintenance Office (CFMO), and the National Guard Deputy Chief of Staff Personnel Office.

This project will reduce long term operating costs by replacing multiple aging fixtures with modern and efficient fixtures. The

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000201

SubProject Title: Camp Murray Bldgs. 6, 6A, 32, & 36 Lighting System Upgrade

reduced cost of operation through a modified lighting system will align with the department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	425,000				425,000
	Total	425,000	0	0	0	425,000

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	99,000				99,000
	Total	99,000	0	0	0	99,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

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Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000201

SubProject Title: Camp Murray Bldgs. 6, 6A, 32, & 36 Lighting System Upgrade

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

SubProject Number: 40000248

SubProject Title: Seattle Readiness Center Exterior Lighting Upgrade

Project Phase Title: Seattle Readiness Center Exterior Lighting Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The goal of this project is to reduce costs associated with lighting the Seattle Readiness Center, increase safety of soldiers and civilians who work and live nearby.? The project includes replacing approximately 24 pole fixtures and lamps with high efficiency LED or low-pressure sodium lamps on timers or photo sensitive I/O switches.

Project Description

The exterior space, parking lot and gate at the Seattle Readiness Center is not well lit. Tenants and Guardsmen have fallen victim to break-ins, vandalism, and threats to safety and physical well-being. Neighboring businesses agree that the increase in lighting will help to protect employees, the public and property.

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$500,000. There is a federal share of 75%, \$375,000, from the National Guard and a 25% match requirement from the state of \$125,000.

The project will produce a building with safe working environments through a well-lit exterior area. This upgrade will save energy by replacing pole fixtures and lamps with high efficiency LEDs or low-pressure sodium lamps on timers, or photo sensitive I/O switches. In areas of high vulnerability and poor lighting additional fixtures will be installed. Additional controls will be added to semi-automate the building and reduce the frequency of lights being left on when not needed.

The reduced cost of operation through a modified lighting system will align with WMD's goal of reducing costs and saving energy while providing tenant safety and protection of National Guard assets. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency.

Location

City: Seattle

County: King

Legislative District: 036

Capital Project Request

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:02PM

Project Number: 40000248

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Seattle Readiness Center Exterior Lighting Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The goal of this project is to reduce costs associated with lighting the Seattle Readiness Center, increase safety of soldiers and civilians who work and live nearby. The project includes replacing approximately 24 pole fixtures and lamps with high efficiency LED or low-pressure sodium lamps on timers or photo sensitive I/O switches.

Project Description

The exterior space, parking lot and gate at the Seattle Readiness Center is not well lit. Tenants and Guardsmen have fallen victim to break-ins, vandalism, and threats to safety and physical well-being. Neighboring businesses agree that the increase in lighting will help to protect employees, the public and property.

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$500,000. There is a federal share of 75%, \$375,000, from the National Guard and a 25% match requirement from the state of \$125,000.

The project will produce a building with safe working environments through a well-lit exterior area. This upgrade will save energy by replacing pole fixtures and lamps with high efficiency LEDs or low-pressure sodium lamps on timers, or photo sensitive I/O switches. In areas of high vulnerability and poor lighting additional fixtures will be installed. Additional controls will be added to semi-automate the building and reduce the frequency of lights being left on when not needed.

The reduced cost of operation through a modified lighting system will align with WMD's goal of reducing costs and saving energy while providing tenant safety and protection of National Guard assets. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	375,000				375,000
057-1	State Bldg Constr-State	125,000				125,000
Total		500,000	0	0	0	500,000

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Project Number: 40000248

Project Title: Seattle Readiness Center Exterior Lighting Upgrade

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000237

SubProject Title: Geiger Field Vehicle Storage Building

Project Phase Title: Geiger Field Vehicle Storage Building

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

The project is the installation/construction of a 6,200 square feet unheated metal vehicle storage building at Geiger Field to support the requirement of the Washington Army National Guard (WAARNG) units. Stationed there. This facility will provide protection for the 81st Stryker Brigade Combat Team (SBCT) military vehicles from damage and deterioration brought by inclement weather conditions.

Project Description

The WAARNG has no existing vehicle storage building at the Geiger Field site. All of the military vehicles, specifically the Stryker vehicles, assigned to the units are parked in an open air space. The vehicles are left exposed to the four distinct seasons with rain, snow, excessive heat and humidity at Geiger Field. These conditions create a very corrosive environment which accelerates deterioration of the vehicles and equipment at a progressive rate thus annual maintenance cost is high and mission readiness is negatively impacted.

This project request is for the design and construction of a 6,200 square feet unheated metal vehicle storage building for the units at Geiger Field: Higher Headquarter Company and Charlie Company of the 1-161 Comb Arms Battalion, 81st SBCT, A Company, Detachment 1, 2-146 Field Artillery Battalion, 81st SBCT and the 144th Support Detachment, 96th Troop Command of the WAARNG. Both design and construction is programmed for state fiscal year 2023.

This federal spending authority request is for a total cost of \$999,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

This project will reduce the deterioration of the vehicles parked at the military vehicle parking lot, extend the lifecycle of the vehicles and reduce maintenance costs. Should this project not be approved the impact to readiness is detrimental to the unit's ability to respond to emergencies in the required response time as the vehicles will be left exposed to precipitation and other outdoor elements.

Project Type

Program (Minor Works)

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reappropriations
001-2	General Fund-Federal	995,000			995,000
	Total	995,000	0	0	995,000

Future Fiscal Periods

Acct Code	Account Title	2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000237

SubProject Title: Geiger Field Vehicle Storage Building

Operating Impacts

No Operating Impact

SubProject Number: 30000841

SubProject Title: Security Fence & Gate - Yakima, Anacortes, Longview

Starting Fiscal Year: 2018

Project Class: Program

Agency Priority: 21

Project Summary

This project is the installation of security fences and gates as determined by Anti-Terrorism / Force Protection (AT/FP) at the Anacortes Readiness Center and Montesano Readiness Center.

Project Description

Improving our fences and gates are a vital part of our force protection, playing an important role in terrorism deterrent and safety. These are the last two location for adding fence and gates; was originally part of a multiple location project.

This project is supported 100% with federally reimburseable funding from the National Guard. The total cost of the project is \$310,000.

Location

City: Anacortes

County: Skagit

Legislative District: 040

City: Longview

County: Cowlitz

Legislative District: 019

City: Yakima

County: Yakima

Legislative District: 015

Project Type

Facility Preservation (Minor Works)

Program (Minor Works)

Growth Management impacts

None. The preservation projects preserve the existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	310,000			310,000
	Total	310,000	0	0	310,000

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 30000841

SubProject Title: Security Fence & Gate - Yakima, Anacortes, Longview

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Narrative

No operating impacts. Cost savings will be used towards backlogged maintenance.

SubProject Number: 40000226

SubProject Title: Camp Murray Cannon Pad at Pierce County Readiness Center

Project Phase Title: Camp Murray Cannon Pad at Pierce County Readiness Center

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the construction of a cannon pad at the Camp Murray Pierce County Readiness Center (PCRC), building 80. As part of military ceremonies, the firing of a cannon is an important symbol of respect and honor. There is currently no suitable pad available for cannon firing during ceremonies at the PCRC such as change of command, promotions, or deployment sendoffs.

Project Description

The Pierce County Readiness Center (PCRC), building 80, at Camp Murray serves as a venue for valuable ceremonies such as change of command, promotions, deployment sendoff, and any other important occasion. Part of these military ceremonies is the firing of a cannon to symbolize honor and respect. Currently, there are no concrete pads around building 80 available for the cannon firing. The cannon cannot be placed nor fired in any paved location near PCRC for safety reasons.

This request will construct cannon pads across from the PCRC building. This project will address safety related concerns during a cannon firing ceremony, ensuring the safety of the soldiers executing the event and the ceremony attendees.

The project is projected to be completed by state fiscal year 2023 with a total cost of \$30,000. This project is funded 50% with federally reimbursed funds from the National Guard, making the required state match \$15,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000226

SubProject Title: Camp Murray Cannon Pad at Pierce County Readiness Center

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures Prior Biennium	Current Biennium	2021-23 Fiscal Period Reappropriations	New Appropriations
001-2	General Fund-Federal	15,000				15,000
	Total	15,000	0	0	0	15,000

Funding

Acct Code	Account Title	Estimated Total	Expenditures Prior Biennium	Current Biennium	2021-23 Fiscal Period Reappropriations	New Appropriations
057-1	State Bldg Constr-State	15,000				15,000
	Total	15,000	0	0	0	15,000

Future Fiscal Periods

	2023-25	2025-27	2027-29	2029-31
001-2 General Fund-Federal				
Total	0	0	0	0

Future Fiscal Periods

	2023-25	2025-27	2027-29	2029-31
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000243

SubProject Title: Unit Training and Equipment Site Communication/ IT Upgrade

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000243

SubProject Title: Unit Training and Equipment Site Communication/ IT Upgrade

Project Phase Title: Unit Training and Equipment Site Communication/ IT Upgrade

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

Federal spending authority is requested for the upgrade of the information technology system at the JBLM Unit Training and Equipment Site (UTES) to include new telecommunication grounding busbar and electrical distribution system; single mode fiber backbone cabling; universal cat6 cabling; and A/V cabling.

Project Description

The current communication line cabling at the JBLM UTES building is old and does not support the bandwidth requirement of personnel in the performance of their day to day operations such as maintenance research and other functional requirements. An updated IT communication line facility is necessary in the proper diagnosis, digital record maintenance, and a key requirement in keeping all the equipment and systems running smoothly.

This federal spending authority request is for the design and implementation of upgrading the existing telecommunication grounding busbar and electrical distribution system; single mode fiber backbone cabling; universal cat6 cabling; backbone cabling, and A/V cabling. The total cost of the project is \$120,000, fully funded by the National Guard with no state match requirement.

This request will bring the UTES IT telecommunication facility up to standard requirements. Inaction could result in failure of the IT facilities due to degradation and hinder the mission of the UTES.

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reappropriations
001-2	General Fund-Federal	120,000			120,000
	Total	120,000	0	0	120,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000243

SubProject Title: Unit Training and Equipment Site Communication/ IT Upgrade

No Operating Impact

SubProject Number: 40000242

SubProject Title: Information Operations Readiness Center Maintenance Catwalk

Project Phase Title: Information Operations Readiness Center Maintenance Catwalk

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the design and construction/installation of maintenance catwalks or platforms with access doors to the roof and main ceiling area of the Information Operation Readiness Center (IORC) located at Joint Base Lewis McChord (JBLM). Other work includes installation of safety lighting inside the roof/ceiling area along catwalks to facilitate safe access to flat roof areas for periodic maintenance and repair activities.

Project Description

The IORC is a five (5) year old, two-story readiness center at JBLM. It was constructed with no roof access to the flat roof area of the building. The building was designed with parapets 40 feet above ground and a drainage slope around building which significantly limits the use of conventional man lifts to conduct periodic maintenance and emergency repair work such as electrical or communication line repair, heating, ventilation and cooling (HVAC) system repair, and roof leak problems. There is no lighting installed inside the building's roof/ceiling area which adds to the difficulty of any maintenance/repair activities.

In order to complete maintenance or repair activities a specialized lift must be rented which increases cost and safety risk to personnel. The cost of the project equates to approximately 10-15 years of specialized lift rental costs; therefore the catwalk installation will be more cost effective over the remaining lifespan of the building of 45 years or more.

This project includes the design and construction of maintenance catwalks or platforms with access doors to the flat roof areas of the IORC and installation of safety lighting along the catwalks. Periodic maintenance and response time for repairs will improve with the readily available and safe access to the building's roof and ceiling areas.

This federal spending authority request is for a total cost of \$300,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000242

SubProject Title: Information Operations Readiness Center Maintenance Catwalk

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	300,000			300,000
	Total	300,000	0	0	300,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000204

SubProject Title: Buckley Readiness Center Exterior & Parking Lot Lighting Upgrade

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Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000204

SubProject Title: Buckley Readiness Center Exterior & Parking Lot Lighting Upgrade

Project Phase Title: Buckley Readiness Center Exterior & Parking Lot Lighting Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The goal of this project is to reduce costs associated with lighting the Buckley Readiness Center perimeter, parking lots and gate increasing safety of soldiers and civilians who work and live nearby.? The project includes replacing pole fixtures and lamps with high efficiency LEDs or low-pressure sodium lamps on timers, or photo sensitive I/O switches.

Project Description

The exterior space, parking lot and gate at the Buckley Readiness Center is not well lit. Tenants and Guardsmen have fallen victim to break-ins, vandalism, and threats to safety and physical well-being.

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$500,000. There is a federal share of 75%, \$375,000, from the National Guard and a 25% match requirement from the state of \$125,000.

The project will produce a building with safe working environments through a well-lit exterior area. This upgrade will save energy by replacing pole fixtures and lamps with high efficiency LEDs or low-pressure sodium lamps on timers, or photo sensitive I/O switches. In areas of high vulnerability and poor lighting additional fixtures will be installed. Additional controls will be added to semi-automate the building and reduce the frequency of lights being left on when not needed.

The reduced cost of operation through a modified lighting system will align with WMD's goal of reducing costs and saving energy while providing tenant safety and protection of National Guard assets. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency.

Location

City: Buckley

County: Pierce

Legislative District: 031

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reappropriations
001-2	General Fund-Federal	375,000			375,000
Total		375,000	0	0	375,000

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000204

SubProject Title: Buckley Readiness Center Exterior & Parking Lot Lighting Upgrade

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	125,000			125,000
	Total	125,000	0	0	125,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
Total	0	0	0	0

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000255

SubProject Title: Yakima Training Center Standby Generators Replacements

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000255

SubProject Title: Yakima Training Center Standby Generators Replacements

Project Phase Title: Yakima Training Center Standby Generators Replacements

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions for the Maneuver Area and Training Equipment Site (MATES) maintenance facility and building 870 located at the Yakima Training Center. Backup power is required for onsite renewables to operate efficiently and effectively. Without power, National Guard staff stationed at this site cannot perform their duties to meet mission requirements.

Project Description

The Maneuver Area and Training Equipment Site (MATES) maintenance facility and building 870 located at the Yakima Training Center are grid-tied facilities which rely on utility power, water, and other utilities. In the event of an emergency, the armory and its staff must be prepared to respond and support the community, state, and country. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

This project will produce a natural gas-powered generator with propane back up. The project requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023 to provide onsite energy generation capability. Both phases are included in this request. The project will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects.

This project for these facilities is a mix of 100% federally supported and 75% federally reimbursed funds from the National Guard in the amount of \$700,000. The required state match is \$100,000 for a total project cost of \$800,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow the communities served by this readiness center to have a conditioned facility to which they can evacuate, service members and first responders a place to prepare and serve food, and a strategic site for joint command and field units to operate. Inaction will ensure that the armory stays without power during an emergency; completely unusable, unsafe, and uninhabitable when needed most by the community and units of the National Guard to carry out their mission.

Furthermore, the operating costs of day-to-day operations can be offset by allowing the generator to operate intermittently as the power utility calls for additional power (demand response). This will reduce operating costs as fuel for the generator will be less expensive than purchasing power directly from the utility.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed,

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000255

SubProject Title: Yakima Training Center Standby Generators Replacements
and issues found remediated.

Project Alternatives:

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Yakima

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	700,000			700,000
	Total	700,000	0	0	700,000

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	100,000			100,000
	Total	100,000	0	0	100,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000255

SubProject Title: Yakima Training Center Standby Generators Replacements

Operating Impacts

No Operating Impact

SubProject Number: 40000239

SubProject Title: Grandview Readiness Center Standby Generator

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000239

SubProject Title: Grandview Readiness Center Standby Generator

Project Phase Title: Grandview Readiness Center Standby Generator

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions for the Grandview Readiness Center. Without power, National Guard staff stationed at this site cannot perform their duties. Backup power is required for onsite renewables to operate efficiently and effectively.

Project Description

The Grandview Readiness Center is a grid-tied facility that relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This request will produce a natural gas-powered generator with propane back up.

This project is supported with 75% federally reimbursed funds from the National Guard in the amount of \$450,000. The 25% required state match is \$150,000 for a total project cost of \$600,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow service members and first responders a place to warm food, have a conditioned facility to which they can evacuate, and a strategic site for joint command and field units to operate during a major weather event triggered outage. Inaction will ensure that the facilities remain without power during an emergency; completely unusable, unsafe, and uninhabitable.

Furthermore, the operating costs of day-to-day operations can be offset by allowing the generator to operate intermittently as the power utility calls for additional power (demand response). This will reduce operating costs as fuel for the generator will be less expensive than purchasing power directly from the utility.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000239

SubProject Title: Grandview Readiness Center Standby Generator

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Grandview

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	450,000			450,000
	Total	450,000	0	0	450,000

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	150,000			150,000
	Total	150,000	0	0	150,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

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Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000239

SubProject Title: Grandview Readiness Center Standby Generator

No Operating Impact

SubProject Number: 40000252

SubProject Title: Snohomish Readiness Center Lighting Replacement

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000252

SubProject Title: Snohomish Readiness Center Lighting Replacement

Project Phase Title: Snohomish Readiness Center Lighting Replacement

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the design and implementation of a lighting upgrade for the Snohomish Readiness Center. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

This building is currently lit by over 200 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2023 and construction for SFY 2024. Both phases are included in this request for a total cost of \$551,000. There is a federal share of 75%, \$413,000, from the National Guard and a 25% match requirement from the state of \$138,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$1000 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 60,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ?

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all the units within this building. In addition to the improved occupant comfort mentioned

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Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000252

SubProject Title: Snohomish Readiness Center Lighting Replacement

above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures thereby reducing overall costs to the taxpayers.

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Snohomish

County: Snohomish

Legislative District: 044

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	413,000			413,000
	Total	413,000	0	0	413,000

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	138,000			138,000
	Total	138,000	0	0	138,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

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Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000252

SubProject Title: Snohomish Readiness Center Lighting Replacement

	Future Fiscal Periods			
	2023-25	2025-27	2027-29	2029-31
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000232

SubProject Title: Centralia Readiness Center Standby Generator

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000232

SubProject Title: Centralia Readiness Center Standby Generator

Project Phase Title: Centralia Readiness Center Standby Generator

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions for the Centralia Readiness Center. Without power, National Guard staff stationed at this site cannot perform their duties. Backup power is required for onsite renewables to operate efficiently and effectively.

Project Description

The Centralia Readiness Center is a grid-tied facility that relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This request will produce a natural gas-powered generator with propane back up.

This project is supported with 75% federally reimbursed funds from the National Guard in the amount of \$600,000. The required state match is \$200,000 for a total project cost of \$800,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow service members and first responders a place to warm food, have a conditioned facility to which they can evacuate, and a strategic site for joint command and field units to operate during a major weather event triggered outage. Inaction will ensure that the facilities remain without power during an emergency; completely unusable, unsafe, and uninhabitable.

Furthermore, the operating costs of day-to-day operations can be offset by allowing the generator to operate intermittently as the power utility calls for additional power (demand response). This will reduce operating costs as fuel for the generator will be less expensive than purchasing power directly from the utility.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000232

SubProject Title: Centralia Readiness Center Standby Generator

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Centralia

County: Lewis

Legislative District: 020

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	600,000			600,000
	Total	600,000	0	0	600,000

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
057-1	State Bldg Constr-State	200,000			200,000
	Total	200,000	0	0	200,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

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Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000232

SubProject Title: Centralia Readiness Center Standby Generator

No Operating Impact

SubProject Number: 40000241

SubProject Title: JBLM Bldg. 6224 Solar Water Heater Installation

Project Phase Title: JBLM Bldg. 6224 Solar Water Heater Installation

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request for federal spending authority will provide onsite hot water generation for space and water heating to prevent further unplanned domestic hot water and space heating service interruptions at the Aviation Readiness Center on Joint Base Lewis McChord.

Project Description

This project will install a solar hot water heating system on the south facing roof of Joint Base Lewis McChord building 6224. The system will connect to existing hot water storage in kitchen and restroom areas and connect to the existing modular boiler system. This project will include an array of 8 panels of evacuated tubes capable of heating water for the entire facility. Even on cloudy days the system can heat water to 164 degrees Fahrenheit.

Solar water heaters will reduce natural gas consumption for heating and hot water demand. It will instead allow the facility to direct its natural gas demand to other uses as needed. Additionally, natural gas can be diverted to generate power during outages. The panels only require a small amount of power to operate. Onsite generators will be able to pump fluid through the system and keep water hot for several days.

The Washington Military Department considered employing on-demand hot water units that do not require storage. Though much less expensive upfront, they have a large maintenance and natural gas consumption requirement. Renewables such as solar photovoltaics (PV) require a power source or batteries to supply power to the building. In an electrical outage the solar PV panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load.

This project is 100% federally reimbursed funds from the National Guard in the amount of \$450,000. There is no state match requirement and no future operating budget impacts. The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000241

SubProject Title: JBLM Bldg. 6224 Solar Water Heater Installation

Growth Management impacts

None

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	450,000			450,000
	Total	450,000	0	0	450,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000203

SubProject Title: Bremerton Readiness Center Lighting Project

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000203

SubProject Title: Bremerton Readiness Center Lighting Project

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the design and implementation of a lighting upgrade for the Bremerton Readiness Center. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description**Background:**

This building is currently lit by over 400 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$525,000. There is a federal share of 75%, \$370,000, from the National Guard and a 25% match requirement from the state of \$150,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$2800 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design.

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within this building including the Washington Youth Academy (WYA) who uses

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000203

SubProject Title: Bremerton Readiness Center Lighting Project

the classroom, dining facility, and assembly spaces. In addition to the improved occupant comfort mentioned above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures thereby reducing overall costs to the taxpayers.

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Bremerton

County: Kitsap

Legislative District: 035

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reapprops
001-2	General Fund-Federal	375,000			375,000
	Total	375,000	0	0	375,000

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Reapprops
057-1	State Bldg Constr-State	150,000			150,000
	Total	150,000	0	0	150,000

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000203

SubProject Title: Bremerton Readiness Center Lighting Project

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000245

SubProject Title: Montesano Field Maintenance Shop Gate Upgrade

Project Phase Title: Montesano Field Maintenance Shop Gate Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the modernization of the existing Montesano Field Maintenance Shop gate by replacing and upgrading it with an automated cantilever type gate.

Project Description

The current gate at the Montesano Field Maintenance Shop (FMS) facility is an old manual swing gate with a chain lock to secure it. During supply deliveries, mechanics have to stop performing maintenance work and manually open the gate. The FMS is in a windy location and wind bursts often pulls the gate open/closed during ingress or egress potentially harming personnel, visitors, vehicles or equipment. In terms of overall security, the current gate does not meet Anti-Terrorism/Force Protection standards, leaving the facility prone to trespassing and thieves.

This project includes the design and construction of an automated cantilever type security gate to reduce risk and improve security of the FMS. The project is scheduled to be designed and completed in state fiscal year 2022. This automated cantilever type gate will improve both the security and efficiency at the Field Maintenance Shop. If no action is taken, the risks remains high for accidental personnel or vehicle damage and theft as well as continued staff time spent opening and closing the gate manually.

This federal spending authority request is for a total cost of \$80,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

Location

City: Montesano

County: Grays Harbor

Legislative District: 019

Project Type

Program (Minor Works)

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000245

SubProject Title: Montesano Field Maintenance Shop Gate Upgrade

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	80,000			80,000
	Total	80,000	0	0	80,000
Future Fiscal Periods					
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000209

SubProject Title: Camp Murray Bldg. 3 Room Conversion

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000209

SubProject Title: Camp Murray Bldg. 3 Room Conversion

Project Phase Title: Camp Murray Bldg. 3 Room Conversion

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project request is for the room conversion of the 11,837 square foot space inside Camp Murray Building 3, a Readiness Center facility. The existing interior open area will be converted to improve functionality such as office space, administrative rooms, training room and conference rooms for the Washington National Guard J9 Joint Services Support Directorate's administrative, day to day operations and training functions.

Project Description**Background:**

Building 3 was built and designed as a horse barn in 1927. Currently, it is categorized as a readiness center but it does not have all the basic functional areas in accordance with National Guard Pamphlet (NGPAM) 415-12, Army National Guard Facilities Allowances. Readiness centers are facilities constructed to support individual and collective training, administrative, automation and communications, and logistical requirements for the ARNG. Functional areas included in a readiness center are an assembly space, classrooms, distance learning centers, locker rooms, physical fitness area, kitchen, weapons and protective masks storage, other storage, enclosed areas to support training with simulation, and operator-level maintenance shop for assigned equipment.

Headquartered in Building 3 on Camp Murray, the Joint Services Support (JSS) Directorate is designed to be a one-stop center for all Washington Guard veteran and family readiness services. They oversee transition services, state family programs and a resiliency care team. The JSS manages programs that provide Washington's Warriors, veterans and family members support services that enhance their well-being as well as promote their productive military participation.

Project Overview:

Due to the limitations of functional areas in building 3, the JSS continues to experience difficulties in the delivery of their mission. They have requested for the space conversion during the last three (3) years of federal project request submission. The conversion of the open space in the building will allow them to attain their training, administrative, operational, communications and logistical requirements.

The request is for the design and construction of an administrative room, office spaces, training rooms and conference rooms. Specifically it will be the installation of walls, drop ceiling tiles, lightings, vinyl or carpet floors, and necessary electrical and communication lines. The design is programmed on State Fiscal Year (SFY) 2022 while construction is projected to be executed and completed by SFY 2023.

The project execution will ensure that the building will meet the basic functional area as prescribed in the NGPAM 415-12. Specifically, it will address the JSS's need for an administrative and training areas which is critical in the attainment of their mission.

The total cost of the project is \$200,000. Federally reimbursed funding from the National Guard covers 75% of the cost, with a remaining 25% match requirement from the state in the amount of \$50,000.

Project Type

Program (Minor Works)

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000209

SubProject Title: Camp Murray Bldg. 3 Room Conversion

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	562,500				562,500
	Total	562,500	0	0	0	562,500

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	187,500				187,500
	Total	187,500	0	0	0	187,500

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000221

SubProject Title: Camp Murray Bldgs. 91 & 92 IT Cabling & AV Infrastructure Upgrade

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000221

SubProject Title: Camp Murray Bldgs. 91 & 92 IT Cabling & AV Infrastructure Upgrade

Project Phase Title: Camp Murray Bldgs. 91 & 92 IT Cabling & AV Infrastructure Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the telecommunications cabling/testing of the information technology (IT) system and upgrading of the audio-visual (AV) infrastructures at the 205th Regional Training Institute (RTI) general instruction buildings, 91 and 92, located at Camp Murray. Specifically, IT cabling includes installation and testing of updated ethernet cables, installation of new uninterrupted power supply and installation of a telecommunications floor box cover. The AV system upgrade includes installation of new LED projectors, lectern connectivity, digital signal processing, touch panel control system, and audio visual room equipment upgrade.

Project Description

The 205th Regional Training Institute (RTI) general instruction buildings, 91 and 92, located at Camp Murray, play a vital role in the continuous education and learning program of the soldiers of the Washington Army National Guard (WAARNG). Specifically, the classrooms in these facilities are being used for all types of learning modalities. This project will address the insufficiency of the 12 year old IT cabling and AV infrastructure of these facilities.

The project will be the IT cabling and AV infrastructure upgrade of buildings 91 and 92 at Camp Murray. The project will include replacement of old telecommunication cables and old AV infrastructure with new LED projectors, lectern connectivity, digital signal processing, touch panel control system, and other audio visual room equipment. This project is on the federal network and therefore follows the Army National Guard Information Technology Regulations for security and standards. This request is for \$500,000 of federal spending authority to complete the project.

The project will be 100% federally reimbursed funds from the WAARNG. There is no requirement for a state match and there are no operational impacts in future years.

This project will bridge the gap for an ideal educational facility by creating a modern and updated IT system cabling and AV infrastructure that supports the mission of the RTI. The updated infrastructure will create a platform that meets or exceeds current IT requirements and increase opportunities to provide high quality specialized training for soldiers. If spending authority is not approved, the RTI's ability to provide high level education and modern training programs would be limited. This education and training supports the readiness level of the Washington Army National Guard (WAARNG).

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

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Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000221

SubProject Title: Camp Murray Bldgs. 91 & 92 IT Cabling & AV Infrastructure Upgrade

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	500,000			500,000
	Total	500,000	0	0	500,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000250

SubProject Title: Snohomish Bldg. 2 Demolition

Project Phase Title: Snohomish Bldg. 2 Demolition

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the disposal through demolition of the 3,204 square feet Snohomish Building 2 storage building in accordance with all required federal and local regulations.

Project Description

The 62 years old 3,204 square feet Organizational Storage Building is adjacent to the Snohomish Readiness Center. The building is already past the useful life, non-mission capable and no longer suited to the present requirements of the units stationed at Snohomish. The building was originally designed as a Field Maintenance Shop and has a present facility rating of "critical with significant risk" in accordance with the Army Focus Risk Model.

This demolition is in line with the future site development plans for the Snohomish site. Once the building is disposed/demolished, the risk posed by the facility will be mitigated.

This federal spending authority request is for a total cost of \$177,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds. The disposal through demolition of the Snohomish Building 2 programmed for state fiscal year 2023.

Location

City: Snohomish

County: Snohomish

Legislative District: 044

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

Project Type

SubProject Number: 40000250

SubProject Title: Snohomish Bldg. 2 Demolition

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	177,000			177,000
	Total	177,000	0	0	177,000
Future Fiscal Periods					
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

SubProject Number: 40000251

SubProject Title: Snohomish Bldg. 4 Demolition

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Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000251

SubProject Title: Snohomish Bldg. 4 Demolition

Project Phase Title: Snohomish Bldg. 4 Demolition

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the disposal through demolition of the non-mission capable Snohomish Building 4 Wash Platform in accordance with all required federal and local regulations.

Project Description

The 38 years old wash platform adjacent to the organizational storage building is already past the useful life, non-mission capable and no longer suited to the requirements of the units stationed at Snohomish. The platform was originally erected as part of the old Maintenance Shop, but when the shop was converted into a storage facility, the wash platform became a non-mission capable facility.

This demolition is in line with the future site development plans for the Snohomish site. Once disposed through demolition, the facility location will be used for the expansion of the Military Owned Vehicle Parking (MOV) lot which is insufficient.

This federal spending authority request is for a total cost of \$160,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds. The disposal through demolition of the Snohomish Building 4 programmed for state fiscal year 2023.

Location

City: Snohomish

County: Snohomish

Legislative District: 044

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	160,000			160,000
	Total	160,000	0	0	160,000
Future Fiscal Periods					
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000185

Project Title: Minor Works Program 21-23 Biennium

SubProjects

SubProject Number: 40000251

SubProject Title: Snohomish Bldg. 4 Demolition

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000185	40000185
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Washington Military Department
21-23 Minor Works Program

Priority	SubProject #	Location	Building #	Project Title	Federal 001 21-23 Program	State Bond 057 21-23 Program	MIL Capital 364 21-23 Program	Project Total
1	40000223	Camp Murray	Lake	CM Lake Boat Washing Station Installation		\$ 180,000	\$ -	\$ 180,000
2	40000200	Camp Murray	3	CM 3 Interior Lighting Upgrade	\$ 450,000	\$ 150,000		\$ 600,000
3	40000235	Camp Murray	20	CM 20 HVAC System Balancing & Air Sealing		\$ 250,000		\$ 250,000
4	40000198	Camp Murray	20	CM 20 Interior Lighting Upgrade		\$ 650,000		\$ 650,000
5	40000199	Camp Murray	20B	CM 20B Interior Lighting Upgrade		\$ 650,000		\$ 650,000
6	40000207	Camp Murray	20	CM 20 Foot Bridge Replacement		\$ 150,000		\$ 150,000
7	40000229	Camp Murray	NEW	CM Civil Support Team Vehicle Support Building Install	\$ 540,000		\$ -	\$ 540,000
8	40000247	Seattle	RC	Seattle RC Modernization	\$ 750,000	\$ 250,000		\$ 1,000,000
9	40000244	Longview	RC	Longview RC Organizational Parking Install	\$ 235,000	\$ 60,000	\$ -	\$ 295,000
10	40000240	JBLM	9108 CSMS	JBLM 9108 Blast Booth Conversion	\$ 600,000			\$ 600,000
11	40000249	Seattle	RC	Seattle RC Non-Organizational Parking Addition & Gate Upgrade	\$ 750,000	\$ 150,000		\$ 900,000
12	40000218	Camp Murray	8	CM 8 HVAC System Upgrading	\$ 300,000	\$ 200,000	\$ -	\$ 500,000
13	40000246	Moses Lake	RC	Moses Lake RC Emergency Generator Install	\$ 375,000	\$ 125,000	\$ -	\$ 500,000
14	40000065	Anacortes	RC	Anacortes RC Emergency Generator Install	\$ 225,000	\$ 75,000		\$ 300,000
15	40000182	Camp Murray	32	CM 32 Generator Replacement	\$ 700,000		\$ -	\$ 700,000
16	40000253	Yakima	RC	Yakima RC Interior & Exterior Lighting Upgrade	\$ 555,000	\$ 185,000	\$ -	\$ 740,000
17	40000201	Camp Murray	6 & 6A	CM 6, 6A, 15, & 32 Interior Lighting Upgrades	\$ 425,000	\$ 99,000		\$ 524,000
18	40000248	Seattle	RC	Seattle RC Interior & Exterior Lighting Upgrade	\$ 375,000	\$ 125,000		\$ 500,000
19	40000237	Geiger Field	NEW	Vehicle Storage Building Install	\$ 995,000			\$ 995,000
20	30000841	Anacortes	RC	Anacortes & Montesano Security Fence & Gate	\$ 310,000	\$ -	\$ -	\$ 310,000
21	40000226	Camp Murray	80	CM 80 Cannon Pad Install	\$ 15,000	\$ 15,000	\$ -	\$ 30,000
22	40000243	JBLM	9608 UTES	Fort Lewis UTES Communication/IT Upgrade	\$ 120,000		\$ -	\$ 120,000
23	40000242	JBLM	IORC	JBLM IORC Maintenance Catwalk	\$ 300,000		\$ -	\$ 300,000
24	40000204	Buckley	RC	Buckley RC Exterior Lighting Upgrade	\$ 375,000	\$ 125,000	\$ -	\$ 500,000
25	40000255	YTC	870 & MATES	YTC 870 & MATES Emergency Generator Installs	\$ 700,000	\$ 100,000	\$ -	\$ 800,000

Washington Military Department
21-23 Minor Works Program

Priority	SubProject #	Location	Building #	Project Title	Federal 001 21-23 Program	State Bond 057 21-23 Program	MIL Capital 364 21-23 Program	Project Total
26	40000239	Grandview	RC	Grandview RC Emergency Generator Install	\$ 450,000	\$ 150,000	\$ -	\$ 600,000
27	40000252	Snohomish	RC	Snohomish RC Interior & Exterior Lighting Upgrade	\$ 413,000	\$ 138,000		\$ 551,000
28	40000232	Centralia	RC	Centralia RC Emergency Generator Install	\$ 600,000	\$ 200,000	\$ -	\$ 800,000
29	40000241	JBLM	6224 AVN RC	JBLM 6224 Solar Water Heater & Boiler System Conversion	\$ 450,000		\$ -	\$ 450,000
30	40000203	Bremerton	RC	Bremerton RC Interior & Exterior Lighting Upgrade	\$ 375,000	\$ 150,000		\$ 525,000
31	40000245	Montesano	FMS	FMS Gate Upgrade	\$ 80,000			\$ 80,000
32	40000209	Camp Murray	3	CM 3 Remodel	\$ 562,500	\$ 187,500		\$ 750,000
33	40000221	CM	91&92	IT Cabling and AV Infrastructure Upgrading	\$ 500,000			\$ 500,000
34	40000250	Snohomish	2	Snohomish 2 Demolition	\$ 177,000			\$ 177,000
35	40000251	Snohomish	4	Snohomish 4 Demolition	\$ 160,000			\$ 160,000
					\$ 12,862,500	\$ 4,364,500	\$ -	\$ 17,047,000

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Report Number: CBS002

Date Run: 9/14/2020 4:54PM

Project Number: 40000223

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Camp Murray Boat Washing Station

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 1

Project Summary

This request is for the construction of a boat washing station at the Camp Murray Campground. The washing station, when constructed, will help users comply with RCW 77.15.253 and 77.15.290 in accordance with Washington Department of Fish and Wildlife Invasive Species Management Protocol which states that "State law requires that boats and other trailered equipment used in an aquatic environment should be free of aquatic animals and plants whenever removed from a water body in order to avoid transport of invasive species to a new water body."

Project Description

As boats come out of American Lake, it is expected that they are cleaned free of any environmental contaminants such as invasive species that may impact other bodies of waters, lake, or other water location. Currently, there is no place at the Camp Murray Campground Boat Launch for users to clean their boats after they come out of American Lake. This situation pose potential environmental threats as there might be contaminants that may pollute other lakes and streams. The washing station, when constructed, will help users comply with RCW 77.15.253 and 77.15.290 in accordance with Washington Department of Fish and Wildlife (WDFW) Invasive Species Management Protocol which states that "State law requires that boats and other trailered equipment used in an aquatic environment should be free of aquatic animals and plants whenever removed from a water body in order to avoid transport of invasive species to a new water body."

This request is for the design and construction of a boat washing station at the Camp Murray Campground for State Fiscal Year 2023. This project is expected to be completed by May 2024.

This project will provide users with a facility to clean their boats and watercrafts, removing any contaminants prior to entry or upon exit of American Lake. This will reduce the potential for cross-contamination into American Lake or other waters, and allow users to avoid deterioration of their own personal watercrafts. Bottomline, it will help users comply with state law and WDFW Invasive Species Management Protocol. If no action is taken, then cleaning is delayed and possibly avoided by boaters and watercraft users due to difficulty in cleaning without the availability of a proper cleaning facility. Without cleaning cross-contamination will most likely continue causing issues with the lakes throughout Washington.

The funding requirement for this project is \$180,000 of state funding.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:54PM

Project Number: 40000223

Project Title: Camp Murray Boat Washing Station

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	180,000				180,000
	Total	180,000	0	0	0	180,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000223	40000223
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:46PM

Project Number: 40000200

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

This request is for the design and implementation of a lighting upgrade for building 3 on Camp Murray. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

Background:

This building has over 200 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Most work areas in the building have no windows and therefore have no access to natural light. Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$400,000. There is a federal share of 75%, \$300,000, from the National Guard and a 25% match requirement from the state of \$100,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$500 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – would not be left on. Design for this space reduces over lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system at a later date.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ?

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within building 3, which is the Joint Services Support Directorate, providing a one-stop center for all Washington Guard veteran and family readiness services. In addition to the improved occupant comfort mentioned above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures thereby reducing overall costs to the taxpayers.

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:46PM

Project Number: 40000200

Project Title: Minor Works Program 21-23 Biennium

Description

increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	450,000				450,000
057-1	State Bldg Constr-State	150,000				150,000
	Total	600,000	0	0	0	600,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000200	40000200
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:56PM

Project Number: 40000235

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Camp Murray 20 System Balancing and Air Sealing

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

This project is for the sealing of the exterior building envelope and subsequent balancing of the HVAC system for building 20 at Camp Murray. This project will be completed after the construction and installation of a modified main roof-top unit. This project is intended to reduce the high operating hours of the heating, ventilation, and air conditioning (HVAC) equipment throughout the building and increase occupant comfort and safety.

Project Description

Building 20 was designed and constructed to withstand earthquakes with a magnitude of over 9.0 on the Richter Scale. It sits upon several skids that allow the building to move freely in such an event. As part of the original design, airflow throughout the building was intended to originate from seams in the exterior walls, ventilation via the elevator shaft, and other interstitial spaces within the building. Since technology has improved and previous HVAC systems replaced with economizers, fresh air requirements are met through economizing and dedicated outside air (DOA) systems. These gaps and seams now only provide drafts, discomfort, and increased heating load – all of which increase total electrical consumption. Operation of the existing unit generates over 50 work orders per quarter, degrade occupant comfort, and alone accounts for 5% of the yearly utility budget. Upgrading the technology used to heat and cool the building would save over \$120,000 per year in electricity costs. Air-sealing the building envelope and balancing the HVAC systems will shorten the simple payback of replacing only the RTU main to ~8 years and will increase occupant comfort and save more than 200 man-hours per year. ?

The request for this biennium requires a design study and pressure testing for state fiscal year (SFY) 2022 and construction for SFY 2023 with a total cost of \$250,000. The request will produce a well-sealed building that can withstand external environmental impacts, increased indoor air quality, and reduced electrical consumption allowing existing, on-site generators to perform more efficiently and less often. This process is in line with the Governor's Executive Order 20-01 which will reduce consumption of electricity, budget, and manpower; all of which are in short supply. It will serve the staff of the Emergency Management Division and subsequent, affiliated divisions and agencies activated during emergencies operating out of the State Emergency Operations Center, including the Army National Guard, Air National Guard.?

Air sealing will increase occupant comfort and reduce over-all building electrical demand. System balancing will reduce uneven air-distribution and allow for high-efficiency operation of the HVAC system. As a result, operating costs will be reduced, the building will be more resilient, and equipment will last much longer due to reduced run-time.

Additionally, air-sealing can reduce electrical consumption due to increased load from outside air by over 20%. The cost of not acting would allow cold/hot complaints to continue; surpassing staff's ability to respond. Inaction would ensure that utility costs are maximized and discomfort for occupants remains steady. Inaction would circumvent the mandates set-forth in Executive Order 20-01 and the energy investment and savings act of Energy Independence and Security Act of 2007. Back-up systems in place at this state emergency center will operate for no more than 10 days during an outage due to the enormous power demand of the existing HVAC unit. With the proposed upgrade, existing generators could run for over 25 days. ??

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:56PM

Project Number: 40000235

Project Title: Minor Works Program 21-23 Biennium

Description

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	250,000				250,000
	Total	250,000	0	0	0	250,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000235	40000235
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:43PM

Project Number: 40000198

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

This request is for the design and implementation of an interior lighting upgrade for building 20 on Camp Murray. The project includes lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable. This building hosts the State Emergency Operations Center and Emergency Management Division. The project will reduce energy costs, correct low lighting levels, and improve occupant comfort.

Project Description

Background:

Building 20 on Camp Murray is host to the Emergency Management Division and State Emergency Operations Center. This building has over 300 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12 and T-8 fluorescents ranging in wattage from 84 to 135 watts (W). Building 20 is consistently one of the highest energy users on Camp Murray with energy costs ranging from \$15,000 to \$30,000 per month depending on activation levels. Lighting levels are low, motion sensors fail to see occupants and dark areas prevail at workstations due to shadows cast by high-walled cubicles and tall equipment. Manually controlled lights are often left on after hours despite many announcements and trainings with building occupants.

Project Overview:

The request for this biennium is a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request with a total cost of \$650,000. The project will produce a building with safe working environments, well-lit interior spaces reducing eyestrain/fatigue, lower energy consumption and lower costs. Office space lighting will have the ability for not only brightness level adjustments, but also color temperature. The latter is an important strategy to reduce seasonal affective disorder (SAD). By replacing all fixtures and upgrading controls, the occupants have greater control over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – will not be left on.

In addition to creating a well-lit space and safe working environment for tenants, replacing the lighting system in the building will reduce energy costs by up to 8%, \$1,800 a month on average. This reduced electrical load for the building's essential function will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage.

Design for this project reduces over-lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system at a later date. If phasing is desired, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This temporary solution does not address the issue of lighting levels, yet it has a high draw on manpower, resources, operating costs, and time.

Alternatively, replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupant's workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within building 20, the Emergency Management Division and associated divisions and outside local, state, and federal agencies operating out of the State Emergency Operations Center. This project will reduce long term energy consumption and costs by replacing multiple aging fixtures with a modern and efficient fixtures.

The reduced cost of operation through a modified lighting system will align with the Military Department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:43PM

Project Number: 40000198

Project Title: Minor Works Program 21-23 Biennium

Description

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.? As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	650,000				650,000
	Total	650,000	0	0	0	650,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000198	40000198
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:44PM

Project Number: 40000199

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

This request is for the design and implementation of a lighting upgrade for building 20B on Camp Murray. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

Background:

This building has over 200 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Building 20B is consistently one of the highest energy users on Camp Murray with energy bills ranging from \$10,000 to \$15,000 per month depending on activation levels. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles, motion sensors failing to see occupants, and rooms with tall equipment. Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request with a total cost of \$650,000. The request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – would not be left on. Design for this space will over lit spaces by decommissioning excess fixtures. Special design will also give the system the ability to connect to the energy management control system at a later date.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$1,300 per month on average as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This has an increased cost of manpower, resources and time. This temporary solution does not address the issue of lighting levels appropriately, especially over-lighting which is common without the proper lighting layout design. ??

Additionally, replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one Maintenance Mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within building 20B: Emergency Management Division, Information Technology Division, and other local, state, and federal agencies operating out of this building as an extension of the State Emergency Operations Center.

This project will reduce long term operating costs by replacing multiple aging fixtures with modern and efficient fixtures. The reduced cost of operation through a modified lighting system will align with the department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:44PM

Project Number: 40000199

Project Title: Minor Works Program 21-23 Biennium

Description

coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	650,000				650,000
	Total	650,000	0	0	0	650,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000199	40000199
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:51PM

Project Number: 40000207

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Camp Murray Bldg. 20 Foot Bridge Replacement

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

This project request is for the replacement of the 22 year-old metal footbridge from the parking area to the entrance of building 20. The current footbridge is deteriorating due to age and shows signs of rust build up and compromised structural integrity.

Project Description**Background:**

The existing footbridge connecting the personally owned vehicle (POV) parking lot and the main entrance of the State Emergency Operations Center and Emergency Management Division (EMD) building, building 20 is already showing signs of compromised structural integrity and safety concerns such as rust build up. Upon inspection, the work required was determined to be beyond maintenance work. The bridge is designed to move with the building and slide against the walkway during an earthquake. The metal brackets underneath are corroded and rusting, the clamps holding the grating down are failing causing the grating to come loose causing a safety hazard. There are 130 regular facility users with daily visitors from other department divisions, local, federal, and state entities. Per facility inventory, the bridge was constructed 22 years ago thus a need for replacement is being requested.

Project Overview:

The project includes the removal and construction of a new metal footbridge connecting the POV parking lot and the main entrance of the building. The design is programmed for State Fiscal Year (SFY) 2022 while construction will be on SFY 2023. The total cost of the project is \$100,000. There is no federal funding support for this building since it is occupied solely by state staff.

Project Impacts:

The project will mitigate the risk and ensure continuous safety of the 172 regular facility users and visitors of the EMD. If no action will be taken, there will be a continuous threat for facility failure at the event of an earthquake and possible injury to occupants should the footbridge continue to deteriorate and fail.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	150,000				150,000
	Total	150,000	0	0	0	150,000

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:51PM

Project Number: 40000207

Project Title: Camp Murray Bldg. 20 Foot Bridge Replacement

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State				
	Total	0	0	0	0

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000207	40000207
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:55PM

Project Number: 40000229

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Camp Murray Vehicle Storage Building

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

This request is for the construction of an 800 square foot vehicle storage building (VSB) at Camp Murray to support the requirement of the Civil Support Team/Weapons of Mass Destruction unit of the Washington Army National Guard (WAARNG). The vehicle storage building will accommodate the new Common Analytical Laboratory System mobile platform which is larger and taller than any facilities currently available on Camp Murray.

Project Description

The Civil Support Team/Weapons of Mass Destruction (CST/WMD) unit will be receiving a new vehicle, a Common Analytical Laboratory System (CALS Increment 1) to support its mission. The vehicle has a very specific storage facility dimension requirement of 16 feet high x 20 feet wide x 40 feet long in congruence with the National Guard Bureau CST Program. In addition, it also needs an infrared heater to maintain a steady storage temperature for the sensitive components of the vehicles such as analytical equipment, inkjet printers, and servers. The present storage facility of the CST and the facility inventory of Camp Murray cannot accommodate said specific facility requirement. Since WAARNG has a shortfall or deficit for a vehicle storage building, constructing a new vehicle storage building has been identified as the best option.

This federal spending authority request is for the design and construction of an 800 square foot vehicle storage building for the Detachment 10, CST/WMD of the WAARNG. Both design and construction is programmed for fiscal year 2022. The total cost of the project is \$540,000 and funded 100% with federally reimbursable funds from the National Guard.

The project will address the specific facility requirement of the new vehicle of the CST/WMD in support of its mission.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	540,000				540,000
	Total	540,000	0	0	0	540,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					

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Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:55PM

Project Number: 40000229

Project Title: Camp Murray Vehicle Storage Building

Funding

Total

0

0

0

0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000229	40000229
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:01PM

Project Number: 40000247

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Seattle Readiness Center Modernization Work

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

The project is the modernization of the active facilities of the 47-year-old Seattle Readiness Center to meet the continuing need of the units stationed in the building. Capital improvement work includes the minor construction of an additional shower facility, improvement of the main entrance; installation of unit signage; and construction of new walls in open administrative areas.

Project Description

Background:

There are currently six (6) units within the 81st Stryker Brigade Combat Team (SBCT) stationed in the Seattle Readiness Center with a total drilling population of 95 officers and 391 enlisted soldiers who report one weekend every month and two weeks during the year. On a regular weekday, there are 62 fulltime personnel that use the facility.

The readiness center currently has only two (2) showers for male service members and four (4) showers for female service members, which is not enough to accommodate the fulltime and drilling soldiers. The soldiers must wait in line to take a shower or are not able to shower at all due to the facility shortfall.

The soldiers assigned to the Brigade staff: Personnel, Intelligence and Logistics located in the administrative area are presently working in a dimly lit open office layout with disorganized electrical and communications wiring, unsecured document filing and poor work flow conditions.

The outdoor façade of the main entrance of the facility is a trip hazard to facility users and visitors. The brick path is uneven and falling apart. The facility does not have any signage representing the units or the building itself.

Project Overview:

Capital improvement work includes the minor construction of an additional twelve (12) shower facility; improvement of the main entrance; installation of a unit sign; and construction of new walls in four (4) open administrative offices.

The project will address the lack of showers stalls and meet soldiers' hygiene requirements during drill days and after daily physical training. The wall construction in open administrative spaces will improve each team's workflow and provide safe storage of data records. The improvement of the main entrance will eliminate safety risk hazards and produce a positive image of the facility which will enhance the soldiers morale and pride.

The proposed project will have a fund sharing of 75% federal and 25% state. The total cost is \$1,000,000 with \$750,000 federally reimbursed funds from the National Guard and \$250,000 state match requirement.

Project Alternatives:

If the issues are not addressed, the facility degradation will continue and it will impact the readiness of the units assigned to the facility. No other alternatives were explored given the present antiquated condition of the readiness center. This is the minimum level of work necessary to meet mission requirements. The department is in the process of purchasing land and completing a predesign study for a new readiness center in King County, but construction will not be completed for another 10-15 years.

Project Impact:

The budget request will positively impact the mission readiness of the six (6) units of the Washington Army National Guard within the 81st Stryker Brigade Combat Team, specifically 548 facility users. Agency clients include both Army and Air National Guard, emergency response personnel at all levels of government, and the local communities. All should experience more responsive and expanded services through the efficiencies of the proposed improvements.

The facility improvement will provide the units with a mission capable facility in accordance with the ARNG Facility Allowances and Requirements and Facilities Design Guide for a Readiness Center while awaiting for a construction of a new readiness

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:01PM

Project Number: 40000247

Project Title: Minor Works Program 21-23 Biennium

Description

center which will be 10-15 years from now per WAARNG Long Range Construction Plan.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	750,000				750,000
057-1	State Bldg Constr-State	250,000				250,000
	Total	1,000,000	0	0	0	1,000,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000247	40000247
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:00PM

Project Number: 40000244

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Longview Organizational Unpaved Parking

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 1

Project Summary

The project is the minor construction of a 3,000 square yard unpaved (gravel) military owned vehicle (MOV) parking lot, 1,800 linear feet of standard military fence, one (1) military vehicle gate, and two (2) personal gates at the Longview Readiness Center. This includes all other required surface regrading/resurfacing, eight (8) electrical light posts, necessary trenching and boring, fixtures and miscellaneous items necessary for a complete project.

Project Description

The open and vacant lot behind the Longview Readiness Center has been idle and thus a loss of opportunity for the department and the Washington Army National Guard (WAARNG) in terms of maximizing the utilization of the property footprint. The units stationed at the Longview Readiness Center have a shortage of available space for military vehicle parking. The military parking area is open and accessible to the public thus it poses security concerns for the parked military vehicles as well as to the soldiers working at the facility.

The project includes construction of a 3,000 square yard unpaved military vehicle parking lot, 1,800 linear feet of standard military fence, one (1) vehicle gate, two (2) personal vehicle gates, and eight (8) electrical light posts. The project design is being executed in state fiscal year 2022 while construction is expected be completed in state fiscal year 2023.

Total project cost is \$295,000 with almost 80% being funded with federally reimbursed funds from the National Guard. The federal share is \$235,000 with a state match requirement of \$60,000.

The proposed unpaved organizational parking and fencing will address the shortage of military vehicle parking for the vehicles and equipment of the Alpha Company, 898 Brigade Engineer Battalion and Bravo Company, 2nd Battalion 146th Field Artillery Battalion of the 81st Stryker Brigade Combat Team (SBCT). The fence, gates, and increased exterior lighting will ensure the utmost security of the vehicles and equipment as well as the safety of any personnel working at the facility.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	235,000				235,000
057-1	State Bldg Constr-State	60,000				60,000
Total		295,000	0	0	0	295,000

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:00PM

Project Number: 40000244

Project Title: Longview Organizational Unpaved Parking

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000244	40000244
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department
Capital Project Request
2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:57PM

Project Number: 40000240

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Combined Support Maintenance Shop Blast Booth Conversion

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the conversion of the blast room of the Washington Army National Guard (WAARNG) Combined Support Maintenance Shop (CSMS). This project seeks to convert the blast room into a paint booth with the same footprint of 3,230 square feet and be located at Joint Base Lewis McChord. This project aims to address the absence of a paint booth which is a key component of a CSMS in the performance of its federal and state mission.

Project Description

The Combined Support Maintenance Shop (CSMS) at Joint Base Lewis McChord (JBLM) does not have a paint booth to perform painting and other paint related maintenance work on military vehicles and equipment. When it was constructed in December 2012, the paint booth was not included in the design due to budgetary restrictions. The building has a blast booth/room that is not being used and is no longer be needed by the CSMS unit. Instead of constructing a new CSMS paint booth, the blast room will be converted into a paint booth which will be of lesser cost.

Currently, all vehicles and equipment painting requirements are being done through external parties thus increasing the CSMS' annual cost of operations. This limits the unit's capability to ensure repairs are completed in a timely manner and as prescribed by repair and quality control standards. Completion of the project will reduce the annual operating costs and improve the timeliness of repairs and maintenance.

This project is for the design and construction/conversion of the 3,230 square feet blast room into a paint booth/room to meet the mission requirement of the CSMS. Design is scheduled for state fiscal year 2022, with construction during state fiscal year 2023.

This federal spending authority request is for a total cost of \$600,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

Project Alternatives:

The only alternative is to continue to contract painting requirements to external parties. This will result in a continuous increase of annual operating costs and a disadvantage to the CSMS.

Project Impact:

The blast room conversion into a paint booth will primarily benefit the CSMS personnel and the nineteen (19) units being supported by the Logistics (G4) Surface Maintenance Management.

This project would support the 25-Year Master Plan specifically the Long Range Construction Plan on the WAARNG Surface Maintenance facilities in JBLM to include the CSMS, and Unit Training Equipment Site (UTES).

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

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2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:57PM

Project Number: 40000240

Project Title: Minor Works Program 21-23 Biennium

Description

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	600,000				600,000
	Total	600,000	0	0	0	600,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000240	40000240
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:03PM

Project Number: 40000249

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Seattle Parking Lot Paving and Gate Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the repair, regrading, expansion and asphalt paving of the graveled personally owned vehicle parking lot located at the Seattle Readiness Center and Field Maintenance Shop to address the parking deficit and safety hazard concerns. In addition, the project will upgrade the failing main gate with a motorized cantilever style gate.

Project Description

The total drilling population at the Seattle Pier 91 site is 486 coming from seven (7) units of the Washington Army National Guard under the 81st Stryker Brigade Combat Team and the Field Maintenance Unit 1. The existing personally owned vehicle (POV) parking lot on the site has a 300 vehicle capacity thus the unit has a dire need for additional parking. Soldiers currently must park their vehicles at a great distance posing a life, health, and safety concern walking along city streets and reducing response time in the event of an emergency. The existing condition of the graveled parking lot poses safety concerns of trip hazards and possible vehicle damage from large potholes and uneven surfaces, especially during times of darkness.

The existing main gate is already failing with a history of work orders for complete non-functionality. This is a critical security issue to the site both for inaccessibility during a failure and risk to personnel and equipment if gate failure leaves the area unsecured. The Seattle Pier 91 site has freight railroad on two sides and commercial businesses on the other two. During hours of darkness the surrounding area is not well lit and has a transient homeless population.

Project Overview:

The project includes repair, regrading, and paving of the existing POV parking lot between the Readiness Center and FMS. An additional 4,200 square yards of parking, equivalent to 120 parking spaces, of POV paved parking will be added to the existing lot. The failing gate will be replaced with an upgraded automatic cantilever style gate.

The paving and expansion of the uneven POV parking will mitigate safety and risk hazards and provide the much needed additional parking space for soldiers assigned to the site. The upgraded gate will ensure soldier accessibility and security of National Guard assets.

The proposed project is a combined support of 75% federal and 25% state and 100% federal. The total cost is \$900,000 with \$750,000 of federally reimbursed funding from the National Guard and \$150,000 state match requirement.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps

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2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:03PM

Project Number: 40000249

Project Title: Seattle Parking Lot Paving and Gate Upgrade

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	750,000				750,000
057-1	State Bldg Constr-State	150,000				150,000
	Total	900,000	0	0	0	900,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000249	40000249
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:52PM

Project Number: 40000218

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Camp Murray Bldg. 8 HVAC System Replacement

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The project is the replacement of the Heating, Ventilation and Air Conditioning (HVAC) system of the 20 years old Information Processing Building, building 8, on Camp Murray.

Project Description

The HVAC system in Building #8 on Camp Murray is not efficient and is failing. Despite multiple maintenance repairs and component replacements, the HVAC systems currently do not have the capacity to maintain the heating/cooling load for the building. There are network servers and battery back-up systems in the building which requires 24/7 cooling systems and reliable ventilation in the event of overheating or other systems failures. System failures have caused building evacuations as a result of batteries off-gassing toxic fumes. Because of the lack of fresh air and exhaust, these gasses were circulated throughout the building through supply ductwork and into offices and onto tenants and customers.

Existing HVAC systems at this building have undergone regular scheduled maintenance, have had parts replaced as needed, and have been inspected prior to this request. It has been deemed cost ineffective to further replace parts, or spend limited maintenance mechanic time to trouble-shoot components of an aged system. Additionally replacement parts are no longer available, the condenser is nearing the end of its useful life, and new refrigerant standards are not compatible with the existing built-in air handler

The request will replace and upgrade the HVAC systems as scheduled according to their useful life. This will avoid further critical system failures which would cost considerably more in labor, equipment, and possible damage to information technology equipment.

The project is supported with \$300,000 in federally reimbursed funds from the National Guard with a state match requirement of \$200,000 for a total cost of \$500,000.

By replacing and upgrading the HVAC system ventilation, temperature control, oxygen replacement, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases are improved. Replacing these systems will result in higher efficiencies, reduced maintenance load, and greater occupancy comfort.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:52PM

Project Number: 40000218

Project Title: Camp Murray Bldg. 8 HVAC System Replacement

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	300,000				300,000
057-1	State Bldg Constr-State	200,000				200,000
	Total	500,000	0	0	0	500,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000218	40000218
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department Capital Project Request 2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 5:01PM**Project Number:** 40000246**Project Title:** Minor Works Program 21-23 Biennium

Description

Project Phase Title: Moses Lake Standby Generator & Lighting Replacement**Starting Fiscal Year:** 2022**Project Class:** Program**Agency Priority:** 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions. The Moses Lake Readiness Center is an emergency support site for Moses Lake and neighboring communities in the event of a disaster or catastrophic event. Without power, National Guard staff stationed at this site cannot perform their duties to meet mission requirements. Additionally, upgraded lighting will reduce overall power consumption and load allowing for the install of a smaller, less-expensive generator with the same capabilities. This project is in line with Executive Order 13843, Energy Independence and Security Act (EISA) of 2007, and agency resilience preparation goals.

Project Description

Background:

The Moses Lake Readiness Center is a grid-tied facility which relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond and support the community, state, and country. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate on both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

This request for a design study in state fiscal year (SFY) 2022 and construction in SFY 2023. Both phases are included in this request. The project will produce well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects.

This request will produce a natural gas-powered generator with propane back up. Installation will be outside of the motor pool utilizing space east of the building not currently being utilized. The old system will be demolished, and that space will then be freed up for additional vehicles in the motor pool. Lighting fixtures at the facility will be replaced with more energy efficient options such as LED fixtures that also allow for brightness and color temperature adjustments with upgraded controls. Design is a four to six month process followed by a six month construction period.

This project at the Moses Lake Readiness Center is supported with 75% federally reimbursed funds from the National Guard. The 25% required state match is \$125,000 for a total project cost of \$500,000.

Project Impacts:

Reducing energy consumption through improved lighting layout and fixtures and adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow the communities served by this readiness center to have a conditioned facility to which they can evacuate, service members and first responders a place to prepare and serve food, and a strategic site for joint command and field units to operate. Inaction will ensure that the readiness center stays without power during an emergency; completely unusable, unsafe, and uninhabitable when needed most by the community and units of the National Guard to carry out their mission.

Specifically, this project will impact all tenants, Army National Guard B Company 161st Infantry Regiment Unit, and its A Company 3rd Battalion Detachment, all other building occupants, tenants and customers to include those who rent the facility and emergency responders who train and operate there during activations.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:01PM

Project Number: 40000246

Project Title: Minor Works Program 21-23 Biennium

Description

Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Moses Lake

County: Grant

Legislative District: 013

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	375,000				375,000
057-1	State Bldg Constr-State	125,000				125,000
	Total	500,000	0	0	0	500,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000246	40000246
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:42PM

Project Number: 30000841

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2018

Project Class: Program

Agency Priority: 21

Project Summary

This project is the installation of security fences and gates as determined by Anti-Terrorism / Force Protection (AT/FP) at the Anacortes Readiness Center and Montesano Readiness Center.

Project Description

Improving our fences and gates are a vital part of our force protection, playing an important role in terrorism deterrent and safety. These are the last two location for adding fence and gates; was originally part of a multiple location project.

This project is supported 100% with federally reimburseable funding from the National Guard. The total cost of the project is \$310,000.

Location

City: Anacortes

City: Longview

City: Yakima

County: Skagit

County: Cowlitz

County: Yakima

Legislative District: 040

Legislative District: 019

Legislative District: 015

Project Type

Facility Preservation (Minor Works)

Program (Minor Works)

Growth Management impacts

None. The preservation projects preserve the existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	310,000				310,000
	Total	310,000	0	0	0	310,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:42PM

Project Number: 30000841

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

Narrative

No operating impacts. Cost savings will be used towards backlogged maintenance.

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	30000841	30000841
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:43PM

Project Number: 40000182

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions. The United State Property and Fiscal Office (USPFO) occupies building 32 on Camp Murray. The USPFO warehouse distributes supplies and gear to Guardsman across the state, manages the Washington Arming National Guard federal budget and payroll offices, as well as several other mandatory operations. Without power to this building, National Guard staff stationed at this site cannot perform their support duties which have a detrimental impact to all local and satellite facilities whose mission it is to protect their local area residents.

Project Description

Camp Murray building 32 is a grid-tied facility which relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

The request for this biennium does not require a design study since one was performed in 2019. Construction would begin and end in state fiscal year 2023. The request will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This request will produce a natural gas-powered generator with propane back up. Installation will happen outside of the motor pool utilizing space east of the building not currently being used. The old system will be demolished, and that space will then be freed up for additional vehicles in the motor pool.

This project is 100% federally reimbursed funds from the National Guard in the amount of \$700,000. There is no state match requirement and no future operating budget impacts.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. This capability will allow the critical services of the USPFO to continue when needed most. Inaction will ensure that the USPFO runs on a 40-year-old unit risking power outage and insufficient loading of the generator.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:43PM

Project Number: 40000182

Project Title: Minor Works Program 21-23 Biennium

Description

major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Health, Safety and Code Requirements (Minor Works)

Program (Minor Works)

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	700,000				700,000
	Total	700,000	0	0	0	700,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000182	40000182
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 5:05PM**Project Number:** 40000253**Project Title:** Minor Works Program 21-23 Biennium

Description

Project Phase Title: Yakima Airport Readiness Center Lighting Upgrade**Starting Fiscal Year:** 2022**Project Class:** Program**Agency Priority:** 21

Project Summary

This request is for the design and implementation of a lighting upgrade for the Yakima Airport Readiness Center. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

This building is currently lit by over 430 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2023 and construction for SFY 2024. Both phases are included in this request for a total cost of \$740,000. There is a federal share of 75%, \$555,000, from the National Guard and a 25% match requirement from the state of \$185,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$3000 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is approved, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 60,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ?

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:05PM

Project Number: 40000253

Project Title: Minor Works Program 21-23 Biennium

Description

sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all the units within this building. In addition to the improved occupant comfort mentioned above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures thereby reducing overall costs to the taxpayers.

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Yakima

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	555,000				555,000
057-1	State Bldg Constr-State	185,000				185,000
	Total	740,000	0	0	0	740,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:05PM

Project Number: 40000253

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000253	40000253
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:47PM

Project Number: 40000201

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

Design lighting layout to accommodate changes to cubical configurations. De-lamp to prevent over-lighting. Install color variant and dimmable fixtures in office spaces to alleviate SADS. Install occupant controls and vacancy sensors where applicable.

Project Description

Background:

Combined these building have over 500 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture – some with Polychlorinated biphenyls (PCB) ballasts which should have been decommissioned over two decades ago. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is approved, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8% (\$2000/month on average) as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

All four buildings are federally supported, however only three of the four buildings are supported with 100% federally reimbursed National Guard funds. The work in one building, building 15, will be reimbursed up to 75% with federal National Guard funds. This limits the state's share of this project to \$99,000, with a total cost of \$524,000.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 60,000 hours of runtime). Once the ballast expires, so does the lamp. This would be a waste of manpower, resources, operating costs, and time. This band-aid does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ??

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete. By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – would not be left on. Design for this space reduces over lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system at a later date.

Project Impacts:

Specifically, this project will impact all tenants within these buildings including the Chemical Support Team (chemical spill response), US Property and Fiscal Office (USPFO), Construction Facilities Maintenance Office (CFMO), and the National Guard Deputy Chief of Staff Personnel Office.

This project will reduce long term operating costs by replacing multiple aging fixtures with modern and efficient fixtures. The reduced cost of operation through a modified lighting system will align with the department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:47PM

Project Number: 40000201

Project Title: Minor Works Program 21-23 Biennium

Description

department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	425,000				425,000
057-1	State Bldg Constr-State	99,000				99,000
	Total	524,000	0	0	0	524,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

Total one time start up and ongoing operating costs

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000201	40000201
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:02PM

Project Number: 40000248

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Seattle Readiness Center Exterior Lighting Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

The goal of this project is to reduce costs associated with lighting the Seattle Readiness Center, increase safety of soldiers and civilians who work and live nearby.? The project includes replacing approximately 24 pole fixtures and lamps with high efficiency LED or low-pressure sodium lamps on timers or photo sensitive I/O switches.

Project Description

The exterior space, parking lot and gate at the Seattle Readiness Center is not well lit. Tenants and Guardsmen have fallen victim to break-ins, vandalism, and threats to safety and physical well-being. Neighboring businesses agree that the increase in lighting will help to protect employees, the public and property.

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$500,000. There is a federal share of 75%, \$375,000, from the National Guard and a 25% match requirement from the state of \$125,000.

The project will produce a building with safe working environments through a well-lit exterior area. This upgrade will save energy by replacing pole fixtures and lamps with high efficiency LEDs or low-pressure sodium lamps on timers, or photo sensitive I/O switches. In areas of high vulnerability and poor lighting additional fixtures will be installed. Additional controls will be added to semi-automate the building and reduce the frequency of lights being left on when not needed.

The reduced cost of operation through a modified lighting system will align with WMD's goal of reducing costs and saving energy while providing tenant safety and protection of National Guard assets. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	375,000				375,000
057-1	State Bldg Constr-State	125,000				125,000
Total		500,000	0	0	0	500,000

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:02PM

Project Number: 40000248

Project Title: Seattle Readiness Center Exterior Lighting Upgrade

Funding

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000248	40000248
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:56PM

Project Number: 40000237

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Geiger Field Vehicle Storage Building

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

The project is the installation/construction of a 6,200 square feet unheated metal vehicle storage building at Geiger Field to support the requirement of the Washington Army National Guard (WAARNG) units. Stationed there. This facility will provide protection for the 81st Stryker Brigade Combat Team (SBCT) military vehicles from damage and deterioration brought by inclement weather conditions.

Project Description

The WAARNG has no existing vehicle storage building at the Geiger Field site. All of the military vehicles, specifically the Stryker vehicles, assigned to the units are parked in an open air space. The vehicles are left exposed to the four distinct seasons with rain, snow, excessive heat and humidity at Geiger Field. These conditions create a very corrosive environment which accelerates deterioration of the vehicles and equipment at a progressive rate thus annual maintenance cost is high and mission readiness is negatively impacted.

This project request is for the design and construction of a 6,200 square feet unheated metal vehicle storage building for the units at Geiger Field: Higher Headquarter Company and Charlie Company of the 1-161 Comb Arms Battalion, 81st SBCT, A Company, Detachment 1, 2-146 Field Artillery Battalion, 81st SBCT and the 144th Support Detachment, 96th Troop Command of the WAARNG. Both design and construction is programmed for state fiscal year 2023.

This federal spending authority request is for a total cost of \$999,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

This project will reduce the deterioration of the vehicles parked at the military vehicle parking lot, extend the lifecycle of the vehicles and reduce maintenance costs. Should this project not be approved the impact to readiness is detrimental to the unit's ability to respond to emergencies in the required response time as the vehicles will be left exposed to precipitation and other outdoor elements.

Project Type

Program (Minor Works)

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	995,000				995,000
	Total	995,000	0	0	0	995,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:56PM

Project Number: 40000237

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000237	40000237
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:42PM

Project Number: 40000065

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions. The Anacortes Armory is an emergency support site for Anacortes and neighboring communities in the event of a disaster or catastrophic event. Without power, National Guard staff stationed at this site cannot perform their duties to meet mission requirements.

Project Description**Background:?**

The Anacortes Armory is a grid-tied facility which relies on utility power, water, and other utilities. In the event of an emergency, the armory and its staff must be prepared to respond and support the community, state, and country. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

This project will produce a natural gas-powered generator with propane back up. The project requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023 to provide onsite energy generation capability. Both phases are included in this request. The project will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This project at the Anacortes armory is supported with 75% federally reimbursed funds from the National Guard in the amount of \$375,000. The 25% required state match is \$125,000 for a total project cost of \$500,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow the communities served by this readiness center to have a conditioned facility to which they can evacuate, service members and first responders a place to prepare and serve food, and a strategic site for joint command and field units to operate. Inaction will ensure that the armory stays without power during an emergency; completely unusable, unsafe, and uninhabitable when needed most by the community and units of the National Guard to carry out their mission.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Anacortes

County: Skagit

Legislative District: 040

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:42PM

Project Number: 40000065

Project Title: Minor Works Program 21-23 Biennium

Description

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	225,000				225,000
057-1	State Bldg Constr-State	75,000				75,000
	Total	300,000	0	0	0	300,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000065	40000065
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:54PM

Project Number: 40000226

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Camp Murray Cannon Pad at Pierce County Readiness Center

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the construction of a cannon pad at the Camp Murray Pierce County Readiness Center (PCRC), building 80. As part of military ceremonies, the firing of a cannon is an important symbol of respect and honor. There is currently no suitable pad available for cannon firing during ceremonies at the PCRC such as change of command, promotions, or deployment sendoffs.

Project Description

The Pierce County Readiness Center (PCRC), building 80, at Camp Murray serves as a venue for valuable ceremonies such as change of command, promotions, deployment sendoff, and any other important occasion. Part of these military ceremonies is the firing of a cannon to symbolize honor and respect. Currently, there are no concrete pads around building 80 available for the cannon firing. The cannon cannot be placed nor fired in any paved location near PCRC for safety reasons.

This request will construct cannon pads across from the PCRC building. This project will address safety related concerns during a cannon firing ceremony, ensuring the safety of the soldiers executing the event and the ceremony attendees.

The project is projected to be completed by state fiscal year 2023 with a total cost of \$30,000. This project is funded 50% with federally reimbursed funds from the National Guard, making the required state match \$15,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	15,000				15,000
057-1	State Bldg Constr-State	15,000				15,000
	Total	30,000	0	0	0	30,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:54PM

Project Number: 40000226

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000226	40000226
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:59PM

Project Number: 40000243

Project Title: Minor Works Program 21-23 Biennium

Description**Project Phase Title:** Unit Training and Equipment Site Communication/ IT Upgrade**Starting Fiscal Year:** 2023**Project Class:** Program**Agency Priority:** 21**Project Summary**

Federal spending authority is requested for the upgrade of the information technology system at the JBLM Unit Training and Equipment Site (UTES) to include new telecommunication grounding busbar and electrical distribution system; single mode fiber backbone cabling; universal cat6 cabling; and A/V cabling.

Project Description

The current communication line cabling at the JBLM UTES building is old and does not support the bandwidth requirement of personnel in the performance of their day to day operations such as maintenance research and other functional requirements. An updated IT communication line facility is necessary in the proper diagnosis, digital record maintenance, and a key requirement in keeping all the equipment and systems running smoothly.

This federal spending authority request is for the design and implementation of upgrading the existing telecommunication grounding busbar and electrical distribution system; single mode fiber backbone cabling; universal cat6 cabling; backbone cabling, and A/V cabling. The total cost of the project is \$120,000, fully funded by the National Guard with no state match requirement.

This request will bring the UTES IT telecommunication facility up to standard requirements. Inaction could result in failure of the IT facilities due to degradation and hinder the mission of the UTES.

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	120,000				120,000
	Total	120,000	0	0	0	120,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:59PM

Project Number: 40000243

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000243	40000243
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:59PM

Project Number: 40000242

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Information Operations Readiness Center Maintenance Catwalk

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the design and construction/installation of maintenance catwalks or platforms with access doors to the roof and main ceiling area of the Information Operation Readiness Center (IORC) located at Joint Base Lewis McChord (JBLM). Other work includes installation of safety lighting inside the roof/ceiling area along catwalks to facilitate safe access to flat roof areas for periodic maintenance and repair activities.

Project Description

The IORC is a five (5) year old, two-story readiness center at JBLM. It was constructed with no roof access to the flat roof area of the building. The building was designed with parapets 40 feet above ground and a drainage slope around building which significantly limits the use of conventional man lifts to conduct periodic maintenance and emergency repair work such as electrical or communication line repair, heating, ventilation and cooling (HVAC) system repair, and roof leak problems. There is no lighting installed inside the building's roof/ceiling area which adds to the difficulty of any maintenance/repair activities. In order to complete maintenance or repair activities a specialized lift must be rented which increases cost and safety risk to personnel. The cost of the project equates to approximately 10-15 years of specialized lift rental costs; therefore the catwalk installation will be more cost effective over the remaining lifespan of the building of 45 years or more.

This project includes the design and construction of maintenance catwalks or platforms with access doors to the flat roof areas of the IORC and installation of safety lighting along the catwalks. Periodic maintenance and response time for repairs will improve with the readily available and safe access to the building's roof and ceiling areas.

This federal spending authority request is for a total cost of \$300,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	300,000				300,000
	Total	300,000	0	0	0	300,000

Future Fiscal Periods

	2023-25	2025-27	2027-29	2029-31
001-2 General Fund-Federal				

245 - Military Department
Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:59PM

Project Number: 40000242

Project Title: Information Operations Readiness Center Maintenance Catwalk

Funding

Total

0

0

0

0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000242	40000242
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:50PM

Project Number: 40000204

Project Title: Minor Works Program 21-23 Biennium

Description**Project Phase Title:** Buckley Readiness Center Exterior & Parking Lot Lighting Upgrade**Starting Fiscal Year:** 2022**Project Class:** Program**Agency Priority:** 21**Project Summary**

The goal of this project is to reduce costs associated with lighting the Buckley Readiness Center perimeter, parking lots and gate increasing safety of soldiers and civilians who work and live nearby.? The project includes replacing pole fixtures and lamps with high efficiency LEDs or low-pressure sodium lamps on timers, or photo sensitive I/O switches.

Project Description

The exterior space, parking lot and gate at the Buckley Readiness Center is not well lit. Tenants and Guardsmen have fallen victim to break-ins, vandalism, and threats to safety and physical well-being.

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$500,000. There is a federal share of 75%, \$375,000, from the National Guard and a 25% match requirement from the state of \$125,000.

The project will produce a building with safe working environments through a well-lit exterior area. This upgrade will save energy by replacing pole fixtures and lamps with high efficiency LEDs or low-pressure sodium lamps on timers, or photo sensitive I/O switches. In areas of high vulnerability and poor lighting additional fixtures will be installed. Additional controls will be added to semi-automate the building and reduce the frequency of lights being left on when not needed.

The reduced cost of operation through a modified lighting system will align with WMD's goal of reducing costs and saving energy while providing tenant safety and protection of National Guard assets. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency.

Location**City:** Buckley**County:** Pierce**Legislative District:** 031**Project Type**

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	375,000				375,000
057-1	State Bldg Constr-State	125,000				125,000
Total		500,000	0	0	0	500,000

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 4:50PM**Project Number:** 40000204**Project Title:** Buckley Readiness Center Exterior & Parking Lot Lighting Upgrade**Funding**

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
057-1	State Bldg Constr-State				
Total		0	0	0	0

Operating Impacts**No Operating Impact**

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000204	40000204
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000255

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Yakima Training Center Standby Generators Replacements

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions for the Maneuver Area and Training Equipment Site (MATES) maintenance facility and building 870 located at the Yakima Training Center. Backup power is required for onsite renewables to operate efficiently and effectively. Without power, National Guard staff stationed at this site cannot perform their duties to meet mission requirements.

Project Description

The Maneuver Area and Training Equipment Site (MATES) maintenance facility and building 870 located at the Yakima Training Center are grid-tied facilities which rely on utility power, water, and other utilities. In the event of an emergency, the armory and its staff must be prepared to respond and support the community, state, and country. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

This project will produce a natural gas-powered generator with propane back up. The project requires a design study for State Fiscal year (SFY) 2022 and construction for SFY 2023 to provide onsite energy generation capability. Both phases are included in this request. The project will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects.

This project for these facilities is a mix of 100% federally supported and 75% federally reimbursed funds from the National Guard in the amount of \$700,000. The required state match is \$100,000 for a total project cost of \$800,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow the communities served by this readiness center to have a conditioned facility to which they can evacuate, service members and first responders a place to prepare and serve food, and a strategic site for joint command and field units to operate. Inaction will ensure that the armory stays without power during an emergency; completely unusable, unsafe, and uninhabitable when needed most by the community and units of the National Guard to carry out their mission.

Furthermore, the operating costs of day-to-day operations can be offset by allowing the generator to operate intermittently as the power utility calls for additional power (demand response). This will reduce operating costs as fuel for the generator will be less expensive than purchasing power directly from the utility.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:06PM

Project Number: 40000255

Project Title: Minor Works Program 21-23 Biennium

Description

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Yakima

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	700,000				700,000
057-1	State Bldg Constr-State	100,000				100,000
	Total	800,000	0	0	0	800,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000255	40000255
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:57PM

Project Number: 40000239

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Grandview Readiness Center Standby Generator

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions for the Grandview Readiness Center. Without power, National Guard staff stationed at this site cannot perform their duties. Backup power is required for onsite renewables to operate efficiently and effectively.

Project Description

The Grandview Readiness Center is a grid-tied facility that relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This request will produce a natural gas-powered generator with propane back up.

This project is supported with 75% federally reimbursed funds from the National Guard in the amount of \$450,000. The 25% required state match is \$150,000 for a total project cost of \$600,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow service members and first responders a place to warm food, have a conditioned facility to which they can evacuate, and a strategic site for joint command and field units to operate during a major weather event triggered outage. Inaction will ensure that the facilities remain without power during an emergency; completely unusable, unsafe, and uninhabitable.

Furthermore, the operating costs of day-to-day operations can be offset by allowing the generator to operate intermittently as the power utility calls for additional power (demand response). This will reduce operating costs as fuel for the generator will be less expensive than purchasing power directly from the utility.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:57PM

Project Number: 40000239

Project Title: Minor Works Program 21-23 Biennium

Description

to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Grandview

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	450,000				450,000
057-1	State Bldg Constr-State	150,000				150,000
	Total	600,000	0	0	0	600,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000239	40000239
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 5:04PM**Project Number:** 40000252**Project Title:** Minor Works Program 21-23 Biennium

Description

Project Phase Title: Snohomish Readiness Center Lighting Replacement**Starting Fiscal Year:** 2022**Project Class:** Program**Agency Priority:** 21

Project Summary

This request is for the design and implementation of a lighting upgrade for the Snohomish Readiness Center. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

This building is currently lit by over 200 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2023 and construction for SFY 2024. Both phases are included in this request for a total cost of \$551,000. There is a federal share of 75%, \$413,000, from the National Guard and a 25% match requirement from the state of \$138,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$1000 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 60,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design. ?

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all the units within this building. In addition to the improved occupant comfort mentioned above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures thereby reducing overall costs to the taxpayers.

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:04PM

Project Number: 40000252

Project Title: Minor Works Program 21-23 Biennium

Description

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation. ?

All new projects seek to comply with State and Federal laws regarding energy efficiency.? This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design.?As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Snohomish

County: Snohomish

Legislative District: 044

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	413,000				413,000
057-1	State Bldg Constr-State	138,000				138,000
	Total	551,000	0	0	0	551,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000252	40000252
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:55PM

Project Number: 40000232

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Centralia Readiness Center Standby Generator

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project will provide onsite generation capability to prevent further unplanned electrical service interruptions for the Centralia Readiness Center. Without power, National Guard staff stationed at this site cannot perform their duties. Backup power is required for onsite renewables to operate efficiently and effectively.

Project Description

The Centralia Readiness Center is a grid-tied facility that relies on utility power, water, and other utilities. In the event of an emergency, the readiness center and its staff must be prepared to respond. According to a Department of Defense funded study by Massachusetts Institute of Technology (MIT), natural gas is a more reliable fuel source over electricity and transported fuels. A dual-fueled generator that can operate off both natural gas and propane is an ideal system with built-in redundancies. Standard diesel fueled generators last three (3) to five (5) days before requiring refueling. If roads are closed or blocked service may not be available for weeks or months. Diesel storage from the Army is also not feasible since that fuel will be reserved for aircraft and emergency vehicles.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request. The request will produce a resilient building with the potential to run indefinitely independent from the utilities' electrical grid. Phasing for this project is not possible if conforming to the complete and usable standard for capital projects. This request will produce a natural gas-powered generator with propane back up.

This project is supported with 75% federally reimbursed funds from the National Guard in the amount of \$600,000. The required state match is \$200,000 for a total project cost of \$800,000.

Project Impacts:

Adding onsite electrical generation to this facility will allow the Guard and other state, federal, and local emergency responders to operate off-grid for extended periods of time without worrying about refueling generators. Having this capability will allow service members and first responders a place to warm food, have a conditioned facility to which they can evacuate, and a strategic site for joint command and field units to operate during a major weather event triggered outage. Inaction will ensure that the facilities remain without power during an emergency; completely unusable, unsafe, and uninhabitable.

Furthermore, the operating costs of day-to-day operations can be offset by allowing the generator to operate intermittently as the power utility calls for additional power (demand response). This will reduce operating costs as fuel for the generator will be less expensive than purchasing power directly from the utility.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for up to 14 days.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Project Alternatives:

The Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar require a power source in order to supply power to the building or batteries. In an electrical outage the solar panels would not perform. Other renewables such as wind power, geothermal, etc. were determined

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:55PM

Project Number: 40000232

Project Title: Minor Works Program 21-23 Biennium

Description

to be costly and ineffective for the required power load. Diesel powered generators would only provide three (3) to five (5) days of power before fuel runs out. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses. In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power as long as natural gas flows through the generator.

Location

City: Centralia

County: Lewis

Legislative District: 020

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	600,000				600,000
057-1	State Bldg Constr-State	200,000				200,000
	Total	800,000	0	0	0	800,000
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000232	40000232
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:58PM

Project Number: 40000241

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: JBLM Bldg. 6224 Solar Water Heater Installation

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request for federal spending authority will provide onsite hot water generation for space and water heating to prevent further unplanned domestic hot water and space heating service interruptions at the Aviation Readiness Center on Joint Base Lewis McChord.

Project Description

This project will install a solar hot water heating system on the south facing roof of Joint Base Lewis McChord building 6224. The system will connect to existing hot water storage in kitchen and restroom areas and connect to the existing modular boiler system. This project will include an array of 8 panels of evacuated tubes capable of heating water for the entire facility. Even on cloudy days the system can heat water to 164 degrees Fahrenheit.

Solar water heaters will reduce natural gas consumption for heating and hot water demand. It will instead allow the facility to direct its natural gas demand to other uses as needed. Additionally, natural gas can be diverted to generate power during outages. The panels only require a small amount of power to operate. Onsite generators will be able to pump fluid through the system and keep water hot for several days.

The Washington Military Department considered employing on-demand hot water units that do not require storage. Though much less expensive upfront, they have a large maintenance and natural gas consumption requirement. Renewables such as solar photovoltaics (PV) require a power source or batteries to supply power to the building. In an electrical outage the solar PV panels would not perform. Other renewables such as wind power, geothermal, etc. were determined to be costly and ineffective for the required power load.

This project is 100% federally reimbursed funds from the National Guard in the amount of \$450,000. There is no state match requirement and no future operating budget impacts. The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request.

This project is in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:58PM

Project Number: 40000241

Project Title: JBLM Bldg. 6224 Solar Water Heater Installation

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	450,000				450,000
	Total	450,000	0	0	0	450,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000241	40000241
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:50PM

Project Number: 40000203

Project Title: Minor Works Program 21-23 Biennium

Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for the design and implementation of a lighting upgrade for the Bremerton Readiness Center. The project includes a lighting layout design to accommodate changes to cubical configurations, de-lamping to prevent over-lighting, installation of color variant and dimmable fixtures in office spaces to alleviate seasonal affective disorder (SADS) and install occupant controls and vacancy sensors where applicable.

Project Description

Background:

This building is currently lit by over 400 light fixtures that are a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 fluorescents ranging in wattage from 84 to 135 watts (W) each fixture. Lighting levels are low and dark areas prevail at workstations due to the shadow cast by the high-walled cubicles which have been shifted to accommodate changing staff, motion sensors failing to see occupants, and rooms with tall equipment. Since their original construction, staffing levels have changed as well as the use of space. These changes have made the original lighting configurations obsolete or harmful (low light, or excess incidental light). Lights in server rooms underserve lower racks and create unnecessary heating in a space that should remain cool year-round.

Project Overview:

The request for this biennium requires a design study for state fiscal year (SFY) 2022 and construction for SFY 2023. Both phases are included in this request for a total cost of \$525,000. There is a federal share of 75%, \$370,000, from the National Guard and a 25% match requirement from the state of \$150,000.

This request will produce a building with safe working environments, well-lit interior building spaces reducing eyestrain/fatigue, lower energy consumption and costs. Office spaces will have the ability to not only adjust brightness levels, but also control the color temperature of the fixtures. The latter is an important strategy to reduce seasonal affective disorder (SAD). If phasing is required, this project can redesign (redistribute) and modernize light fixtures with LEDs in one phase and install controls in another.

Replacing the lighting system in the building will reduce energy costs by up to 8%, \$2800 a month on average, as well as create a well-lit space and safe working environment for tenants. The reduced electrical load due to both lighting (an essential building function) and excess heat will offset power generation required by onsite, diesel, electric generators. Fundamentally, less generator runtime will equate to less carbon emissions, reduce air pollution, and longer operability during an outage caused by a disastrous event.

Project Alternatives:

Currently onsite maintenance staff are replacing lamps with LED plug-ins. These plug-ins are dependent on the existing ballast (some with over 40,000 hours of runtime). Once the ballast expires, so does the lamp. This requires increased manpower, resources, operating costs, and time. This temporary solution does not address the issue of lighting levels appropriately as many occupants complain of over-lighting which is common without the proper lighting layout design.

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment. Installation would require the sole electrician and one maintenance mechanic several days to complete.

Project Impacts:

Specifically, this project will impact all tenants within this building including the Washington Youth Academy (WYA) who uses the classroom, dining facility, and assembly spaces. In addition to the improved occupant comfort mentioned above, this project will reduce long term costs by modifying an aged fixtures with modern and efficient fixtures thereby reducing overall costs to the taxpayers.

Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:50PM

Project Number: 40000203

Project Title: Minor Works Program 21-23 Biennium

Description

The reduced cost of operation through a modified lighting system will align with department's goal of reducing costs and saving energy while providing tenant comfort and increased productivity. These goals are in accordance with Executive Order (EO) 20-01, EO 13963, and Energy Independence and Security Act (EISA) of 2007 requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the department. A feasibility study performed in 2018 by Washington State University Energy Extension Program (WSUEEP) showed that connectivity between several buildings was possible and could be resilient using higher efficiency equipment and coordinated on-site power generation.

All new projects seek to comply with State and Federal laws regarding energy efficiency. This project inherently represents and is a strategic part of those goals to reduce carbon emissions and improve energy efficiency. A commissioning report will be documented during final design. As part of the Installation Energy and Water Plan (IEWP) for the Washington Military Department, retro-commissioning shall occur every four years during which a major systems efficiency check will be performed, and issues found remediated.

Location

City: Bremerton

County: Kitsap

Legislative District: 035

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	375,000				375,000
057-1	State Bldg Constr-State	150,000				150,000
	Total	525,000	0	0	0	525,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000203	40000203
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:00PM

Project Number: 40000245

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Montesano Field Maintenance Shop Gate Upgrade

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the modernization of the existing Montesano Field Maintenance Shop gate by replacing and upgrading it with an automated cantilever type gate.

Project Description

The current gate at the Montesano Field Maintenance Shop (FMS) facility is an old manual swing gate with a chain lock to secure it. During supply deliveries, mechanics have to stop performing maintenance work and manually open the gate. The FMS is in a windy location and wind bursts often pulls the gate open/closed during ingress or egress potentially harming personnel, visitors, vehicles or equipment. In terms of overall security, the current gate does not meet Anti-Terrorism/Force Protection standards, leaving the facility prone to trespassing and thieves.

This project includes the design and construction of an automated cantilever type security gate to reduce risk and improve security of the FMS. The project is scheduled to be designed and completed in state fiscal year 2022. This automated cantilever type gate will improve both the security and efficiency at the Field Maintenance Shop. If no action is taken, the risks remains high for accidental personnel or vehicle damage and theft as well as continued staff time spent opening and closing the gate manually.

This federal spending authority request is for a total cost of \$80,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds.

Location

City: Montesano

County: Grays Harbor

Legislative District: 019

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	80,000				80,000
	Total	80,000	0	0	0	80,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:00PM

Project Number: 40000245

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000245	40000245
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:51PM

Project Number: 40000209

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Camp Murray Bldg. 3 Room Conversion

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 21

Project Summary

This project request is for the room conversion of the 11,837 square foot space inside Camp Murray Building 3, a Readiness Center facility. The existing interior open area will be converted to improve functionality such as office space, administrative rooms, training room and conference rooms for the Washington National Guard J9 Joint Services Support Directorate's administrative, day to day operations and training functions.

Project Description**Background:**

Building 3 was built and designed as a horse barn in 1927. Currently, it is categorized as a readiness center but it does not have all the basic functional areas in accordance with National Guard Pamphlet (NGPAM) 415-12, Army National Guard Facilities Allowances. Readiness centers are facilities constructed to support individual and collective training, administrative, automation and communications, and logistical requirements for the ARNG. Functional areas included in a readiness center are an assembly space, classrooms, distance learning centers, locker rooms, physical fitness area, kitchen, weapons and protective masks storage, other storage, enclosed areas to support training with simulation, and operator-level maintenance shop for assigned equipment.

Headquartered in Building 3 on Camp Murray, the Joint Services Support (JSS) Directorate is designed to be a one-stop center for all Washington Guard veteran and family readiness services. They oversee transition services, state family programs and a resiliency care team. The JSS manages programs that provide Washington's Warriors, veterans and family members support services that enhance their well-being as well as promote their productive military participation.

Project Overview:

Due to the limitations of functional areas in building 3, the JSS continues to experience difficulties in the delivery of their mission. They have requested for the space conversion during the last three (3) years of federal project request submission. The conversion of the open space in the building will allow them to attain their training, administrative, operational, communications and logistical requirements.

The request is for the design and construction of an administrative room, office spaces, training rooms and conference rooms. Specifically it will be the installation of walls, drop ceiling tiles, lightings, vinyl or carpet floors, and necessary electrical and communication lines. The design is programmed on State Fiscal Year (SFY) 2022 while construction is projected to be executed and completed by SFY 2023.

The project execution will ensure that the building will meet the basic functional area as prescribed in the NGPAM 415-12. Specifically, it will address the JSS's need for an administrative and training areas which is critical in the attainment of their mission.

The total cost of the project is \$200,000. Federally reimbursed funding from the National Guard covers 75% of the cost, with a remaining 25% match requirement from the state in the amount of \$50,000.

Project Type

Program (Minor Works)

New Facility: No

Funding

Expenditures

2021-23 Fiscal Period

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:51PM

Project Number: 40000209

Project Title: Camp Murray Bldg. 3 Room Conversion

Funding

Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
001-2	General Fund-Federal	562,500				562,500
057-1	State Bldg Constr-State	187,500				187,500
	Total	750,000	0	0	0	750,000

Future Fiscal Periods

	<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>
001-2 General Fund-Federal				
057-1 State Bldg Constr-State				
Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000209	40000209
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:53PM

Project Number: 40000221

Project Title: Minor Works Program 21-23 Biennium

Description**Project Phase Title:** Camp Murray Bldgs. 91 & 92 IT Cabling & AV Infrastructure Upgrade**Starting Fiscal Year:** 2022**Project Class:** Program**Agency Priority:** 21**Project Summary**

The project is the telecommunications cabling/testing of the information technology (IT) system and upgrading of the audio-visual (AV) infrastructures at the 205th Regional Training Institute (RTI) general instruction buildings, 91 and 92, located at Camp Murray. Specifically, IT cabling includes installation and testing of updated ethernet cables, installation of new uninterrupted power supply and installation of a telecommunications floor box cover. The AV system upgrade includes installation of new LED projectors, lectern connectivity, digital signal processing, touch panel control system, and audio visual room equipment upgrade.

Project Description

The 205th Regional Training Institute (RTI) general instruction buildings, 91 and 92, located at Camp Murray, play a vital role in the continuous education and learning program of the soldiers of the Washington Army National Guard (WAARNG). Specifically, the classrooms in these facilities are being used for all types of learning modalities. This project will address the insufficiency of the 12 year old IT cabling and AV infrastructure of these facilities.

The project will be the IT cabling and AV infrastructure upgrade of buildings 91 and 92 at Camp Murray. The project will include replacement of old telecommunication cables and old AV infrastructure with new LED projectors, lectern connectivity, digital signal processing, touch panel control system, and other audio visual room equipment. This project is on the federal network and therefore follows the Army National Guard Information Technology Regulations for security and standards. This request is for \$500,000 of federal spending authority to complete the project.

The project will be 100% federally reimbursed funds from the WAARNG. There is no requirement for a state match and there are no operational impacts in future years.

This project will bridge the gap for an ideal educational facility by creating a modern and updated IT system cabling and AV infrastructure that supports the mission of the RTI. The updated infrastructure will create a platform that meets or exceeds current IT requirements and increase opportunities to provide high quality specialized training for soldiers. If spending authority is not approved, the RTI's ability to provide high level education and modern training programs would be limited. This education and training supports the readiness level of the Washington Army National Guard (WAARNG).

Location**City:** Unincorporated**County:** Pierce**Legislative District:** 028**Project Type**

Program (Minor Works)

Growth Management impacts

None

New Facility: No**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

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2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 4:53PM

Project Number: 40000221

Project Title: Camp Murray Bldgs. 91 & 92 IT Cabling & AV Infrastructure Upgrade

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal	500,000			500,000
	Total	500,000	0	0	500,000

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000221	40000221
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:03PM

Project Number: 40000250

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Snohomish Bldg. 2 Demolition

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the disposal through demolition of the 3,204 square feet Snohomish Building 2 storage building in accordance with all required federal and local regulations.

Project Description

The 62 years old 3,204 square feet Organizational Storage Building is adjacent to the Snohomish Readiness Center. The building is already past the useful life, non-mission capable and no longer suited to the present requirements of the units stationed at Snohomish. The building was originally designed as a Field Maintenance Shop and has a present facility rating of "critical with significant risk" in accordance with the Army Focus Risk Model.

This demolition is in line with the future site development plans for the Snohomish site. Once the building is disposed/demolished, the risk posed by the facility will be mitigated.

This federal spending authority request is for a total cost of \$177,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds. The disposal through demolition of the Snohomish Building 2 programmed for state fiscal year 2023.

Location

City: Snohomish

County: Snohomish

Legislative District: 044

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	177,000				177,000
	Total	177,000	0	0	0	177,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:03PM

Project Number: 40000250

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000250	40000250
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:04PM

Project Number: 40000251

Project Title: Minor Works Program 21-23 Biennium

Description

Project Phase Title: Snohomish Bldg. 4 Demolition

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 21

Project Summary

This request is for federal spending authority for the disposal through demolition of the non-mission capable Snohomish Building 4 Wash Platform in accordance with all required federal and local regulations.

Project Description

The 38 years old wash platform adjacent to the organizational storage building is already past the useful life, non-mission capable and no longer suited to the requirements of the units stationed at Snohomish. The platform was originally erected as part of the old Maintenance Shop, but when the shop was converted into a storage facility, the wash platform became a non-mission capable facility.

This demolition is in line with the future site development plans for the Snohomish site. Once disposed through demolition, the facility location will be used for the expansion of the Military Owned Vehicle Parking (MOV) lot which is insufficient.

This federal spending authority request is for a total cost of \$160,000. The funding is 100% federally reimbursed funds from the National Guard with no state match requirement and no future impacts on operating funds. The disposal through demolition of the Snohomish Building 4 programmed for state fiscal year 2023.

Location

City: Snohomish

County: Snohomish

Legislative District: 044

Project Type

Program (Minor Works)

Growth Management impacts

None, projects are within the current footprint of existing facilities.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal	160,000				160,000
	Total	160,000	0	0	0	160,000
Future Fiscal Periods						
		<u>2023-25</u>	<u>2025-27</u>	<u>2027-29</u>	<u>2029-31</u>	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 5:04PM

Project Number: 40000251

Project Title: Minor Works Program 21-23 Biennium

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

*

<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000251	40000251
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

Washington Military Department
19-21 Minor Works Program (Reappropriation)

Priority	SubProject#	Location	Project Title	Current Project Estimate	Federal 001 19-21 Program	State Bond 057 19-21 Prog	MIL Capital 364 19-21 Prog	Notes
18	40000066	Anacortes	Modular Vault Installation	\$ 80,000	\$ 80,000			In progress
5	40000069	Buckley RC	Emergency Generator Install	\$ 500,000	\$ 375,000	\$ 125,000		In progress
4	40000070	CM 15	Interior Improvements	\$ 281,000	\$ 140,500	\$ 140,500		In progress
12	40000074	CM 17/18	Lighting Upgrade - Interior (in prep for roof project)	\$ 100,000	\$ 100,000			In progress
7	40000080	CM Gate	South Gate Modification	\$ 450,000	\$ 450,000			In progress
13	40000084	JBLM 6224 AVN RC	Lighting Upgrade - Interior & Controls	\$ 450,000	\$ 450,000			In progress
17	40000090	Redmond	Modular Vault Installation	\$ 80,000	\$ 80,000			In progress
10	40000107	YTC 870	ADA Compliance	\$ 300,000	\$ 300,000			In progress
11	40000108	YTC 951	Restroom & Fitness Room Renewal	\$ 750,000	\$ 750,000			In progress
8	40000123	JBLM 9608 UTES	Breakroom Expansion	\$ 500,000	\$ 500,000			In progress
14	40000124	JBLM 9705 CSMS	Lighting Install - Motor Pool	\$ 350,000	\$ 350,000			
2	40000127	CM Site	Trash Compactor Site Improvements	\$ 600,000	\$ 450,000	\$ 150,000		In progress
9	40000128	Seattle FMS	Lighting Install - Motor Pool	\$ 350,000	\$ 350,000			In progress
6	40000132	Geiger Field	Lighting Upgrade - Exterior	\$ 200,000	\$ 150,000	\$ 50,000		In progress
3	40000137	CM 1	HVAC Replacement	\$ 900,000	\$ 625,000	\$ 275,000		In progress
15	40000178	YTC 870	Lighting Upgrade - Interior	\$ 200,000	\$ 200,000			In progress
1	40000179	CM Lake	Boat Launch & Dock Replacement	\$ 400,000		\$ 400,000		
16	40000183	YTC MATES	Tenant Improvements	\$ 402,500	\$ 402,500			In progress
					\$ 5,753,000	\$ 1,140,500	\$ -	
Total Appropriation:					\$ 21,630,000	\$ 2,259,000	\$ 109,000	
Variance:					\$ 15,877,000	\$ 1,118,500	\$ 109,000	

Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

Description

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This reappropriation request is for the completion of minor works projects already in progress or in finalization of contracting during fiscal year 2021. Projects include additions, alterations, or renovations of state and federally supported facilities of the Washington Military Department.

Project Description

Background:

This reappropriation request is for funding of minor works program projects at several of the 450 state-owned or federally licensed facilities throughout the state. These projects will be done using agency personnel and public work contracts. The projects are either already in progress or in final stages of contracting and expected to be completed by June 2023.

Project Overview:

Projects include renovation of office areas, kitchens, showers, and restrooms; installation of handwashing stations for cadets, lighting upgrades; and replacement of boat launch and dock. These projects will help to address the issues with the agency's aging facilities, which need significant investments to keep them functioning and operational.

Project Impacts:

These minor work program projects in process allow the agency to utilize the existing facilities by altering, modernizing and/or adding new structures or systems to improve building capacity/capability. Properly reconfigured facilities will improve training of Washington's National Guard members, improve the state's disaster response capabilities, and better support the local communities. These projects support five of the six strategic goals of the department: 1) Enhanced Preparedness, 2) Outreach 3) Modernization, 4) Efficiency and Effectiveness, and 5) Youth Development and Education by providing safe, efficient and fully functional facilities for the employees of the Washington Military Department and Washington National Guard.

The facilities owned and managed by the Military Department primarily serve state and federal employees carrying out the mission of the agency such as the Emergency Management Division, Washington Youth Academy, Army National Guard, and Air National Guard. Emergency response personnel from all levels of government use the agency's facilities, not just at the State Emergency Operations Center at Camp Murray but also in local communities across the state. Many of the agency's facilities are also rented by local community groups for recreational and social activities.???

Project Funding:

Funding for these projects varies and is determined by the function and location of the buildings. Federally reimbursable funding through the National Guard Master Cooperative Agreement and Military Construction Program ranges from 100% federally reimbursable to 75%, 25%, and 0% (100% state). The Washington Military Department and Washington National Guard are committed to upholding the agency's fiduciary responsibility by being prudent with every dollar received from both state and federal sources, understanding that both funding sources are very limited.???

Location

City: Statewide

County: Statewide

Legislative District: 098

Project Type

Health, Safety and Code Requirements (Minor Works)

Program (Minor Works)

245 - Military Department Capital Project Request

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

Description

Growth Management impacts

There are no growth management impacts with these projects, the projects are within the existing facility footprint for support the same purpose.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
364-1	Military Dep Cap Act-State					
	Total	0	0	0	0	0
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
057-1	State Bldg Constr-State					
364-1	Military Dep Cap Act-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

SubProjects

SubProject Number: 40000179

SubProject Title: Camp Murray Dock & Boat Launch Replacement

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 6:11PM**Project Number:** 40000037**Project Title:** Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000179**SubProject Title:** Camp Murray Dock & Boat Launch Replacement**Starting Fiscal Year:** 2020**Project Class:** Program**Agency Priority:** 6**Project Summary**

This project will replace the dock and boat launch ramp at the Camp Murray Beach and Campground. The underwater piles have deteriorated beyond repair and the boat ramp is uneven with several trip hazards.

Project Description

The Camp Murray Beach's Dock and Boat Launch ramp's piles have deteriorated and require replacement. This is a priority because the dock and ramp are now a safety concern to all campground users, including the public, state employees, and soldiers that would like to use them.

Location**City:** Unincorporated**County:** Pierce**Legislative District:** 028**Project Type**

Health, Safety and Code Requirements (Minor Works)

Program (Minor Works)

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No**Operating Impacts****Total one time start up and ongoing operating costs**

SubProject Number: 40000127**SubProject Title:** Trash Compactor Site Improvements- Camp Murray Site

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

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Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000127

SubProject Title: Trash Compactor Site Improvements- Camp Murray Site

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will replace the existing trash compactor on Camp Murray with a larger, 30-yard container. The project also includes installation of run-off control around the site, including cover and berm, to reduce pollution into local watersheds.

Project Description

The existing trash compactor on Camp Murray serves thirty-five buildings for the Washington Army National Guard, Washington Air National Guard, and Washington Military Department. Over the past several years, Camp Murray has expanded state and federal staff and added new buildings. This in turn has increased the garbage load for the compactor. Several leaks have been repaired on the system, but it continues to leak, spill garbage, and seep fluids. There is no cover or berm around the site to keep leaks contained and out of the stormwater and other runoff areas.

Additionally, the two cubic yard roll-away containers that are distributed to buildings across Camp Murray were custom made and are now in short supply. Several of these containers are damaged with non-closing lids or non-functional wheels, further contributing to garbage spillage, leaks, and transport issues. Contracting the build for additional bins would cost roughly \$45,000. Due to the limited size and reduced power of the compactor, pick-ups occur about twice a month and up to four times a month during annual training or large activations where additional staff from federal, local and state agencies are working out of the State Emergency Operation Center or Joint Operations Center. Pick-ups cost roughly \$2,500 each and the department spends about \$78,000 annually on compactor pick-ups alone.

This project will produce a containment area, a new 30-cubic-yard container, 40-45 additional roll-away containers, and a cover to keep rainwater from washing contaminants from the compactor into runoff streams. The project will take a year to complete and includes design of site and selection of roll-away containers to ensure compliance with local and state code, site preparation and installation of the coverings, and the purchase and install of a new trash compactor.

A larger compactor would increase the amount of refuse the Washington Military Department is able to store between pick-ups. This would reduce the number of costly pick-ups to once per month, and twice a month during high capacity events. This results in a potential savings of \$31,000 per year.

If no action is taken, capacity for trash will continue to shrink and the hydraulics will continue to further degrade. As a result, the department would need to open accounts for commercial services at each building (35 across the campus). These accounts would have a monthly base fee per building (~\$15.00), rental fees per bin (~\$100), haul and environmental fees (~\$35), and taxes (~\$15). Estimates are around \$65,000 per year for the Camp Murray site to be switched to individual commercial trash pick-ups.

Purchasing individual bins for each section of buildings was considered but found to be too costly and environmentally damaging. State maintenance employees have cleaned the area, replaced the hydraulic pump several times, and tried to stage bins in strategic areas to serve as many buildings as possible. Even with all these attempts, the results have always ended in breakage, spillage, or improper dumping. A centralized solution to this problem is the quickest, most cost-effective solution over the long-run with a less than 18-year simple payback.

This project ensures compliance with Army Regulation 420-1 section 22 concerning the timely removal of refuse and recycling material. Site design also limits the amount of pollution going to water sheds complying with Revised Code of Washington (RCW) 90.48 Water Pollution Control.

Camp Murray is a state-owned, federal training site that hosts both federal and state agencies. For this reason, the compactor that services this site is reimbursed by the National Guard at 75%. The total cost of the project is \$600,000 with a \$150,000

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 6:11PM**Project Number:** 40000037**Project Title:** Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000127**SubProject Title:** Trash Compactor Site Improvements- Camp Murray Site
state match requirement.**Location****City:** Unincorporated**County:** Pierce**Legislative District:** 028**Project Type**

Program (Minor Works)

Growth Management impacts

None

New Facility: No**Operating Impacts****No Operating Impact**

SubProject Number: 40000137**SubProject Title:** HVAC Upgrade-Camp Murray 1

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000137

SubProject Title: HVAC Upgrade-Camp Murray 1

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will replace the existing split system and forced air system with variable refrigerant flow type system for building 1 on Camp Murray. In addition, upgraded energy management controls will be installed.

Project Description

Camp Murray building 1 is in the historical district of Camp Murray. It serves as the main headquarters for the Adjutant General (TAG), the Assistant Adjutant General (ATAG), Chief of Staff, State and Federal Finance, Communications, Legislative Affairs, Public Disclosure, and other planning or administrative divisions.

The existing heating, ventilation, and cooling (HVAC) units have been added on as needed over the last 60 years. There are 10 ductless heating and cooling units attached to the building; each serving one office or conference room. Each unit requires \$1,500 per year in maintenance costs and at the end of their life cycle cost \$50,000 to replace. These units have been replaced once already and are due to be replaced within the next 1-2 years.

There is a centralized heating unit, but it is overloaded and unable to support the 100-year-old, unsealed building. The air handler is complex and requires specialized parts, resulting in costly repairs and maintenance. The ductwork has never been sealed and passes through interstitial spaces in the building. The top floor of the building receives no cooling while the building's heat rises to those offices and break rooms. Occupants throughout the building submit about 30 work orders per month, accounting for 16% of the total work orders and cold calls received in the winter. HVAC technicians must continuously adjust settings that have fallen out of sync with the units due to part failures.

The project will remove the existing split units and air handlers, then install new air handlers, sealed ductwork, and upgraded energy management control systems. Additionally, a heat pump unit will service the top floor of the building addressing the cooling load requirements and supplementing heating as necessary. Design and construction will require one year to complete.

This project will streamline the heating and cooling systems attached to building 1. It will provide cooling, heating, and required ventilation for the top floor. Removing the numerous split systems will reduce life cycle costs, energy consumption, and maintenance hours spent troubleshooting systems and responding to cold/hot calls. This project could reduce electrical consumption at this site by 30% and reduce demand by 100 kilowatts per month during the winter months. This is an approximate savings of \$9,000 per year for electric consumption alone.

This project is in line with Executive Order (EO) 18-01, EO 13963, and Energy Independence and Security Act of 2007 (EISA) requirements to reduce power consumption and increase power reliability. It is the initial phase in building a microgrid type system that will support the mission of the Military Department.

Alternatively, the maintenance office considered expanding the heating system and adding an additional split unit to the upper floor of the building. Though this would be less costly upfront, it would increase the life cycle cost of maintaining the and replacing the systems every 20 years by another \$50,000. Moreover, the split unit may not provide adequate cooling, and certainly no ventilation.

The National Guard federal reimbursement contribution is \$625,000, with a state match of \$275,000 for a total cost of \$900,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

Project Type

SubProject Number: 40000137

SubProject Title: HVAC Upgrade-Camp Murray 1

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating ImpactsNo Operating Impact

SubProject Number: 40000070

SubProject Title: Tenant Improvements - Camp Murray 15

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will design and construct an addition/alteration to Building 15 on Camp Murray, and a revised office arrangement in conjunction with the new addition and finishes.

Project Description

The current available space in building 15 on Camp Murray is too small for all mission activities that occur in this building, to include ID services to all Washington National Guard members, active and retired, their families, state and federal employees, and temporary or permanent contractors. Often, there is not enough space for all customers being assisted, requiring customers to wait outside in uncovered areas for long periods of time.

Issuance and record maintenance of military identification is a critical activity for proper management of the National Guard and associated services and benefits. This office also manages the issuance of Controlled Access Cards to state personnel requiring access to federal systems and facilities during their duties.

This project will design and construct an addition/alteration to Building 15 at Camp Murray, and a revised office arrangement in conjunction with the new addition and finishes. Renovating this existing building is a more cost effective and sustainable option, extending its useful life and capabilities, and bringing it up to code. This renovation is much more economical than designing and constructing a new building of this size.

The National Guard?federal reimbursement contribution is 50% (140,500), with a 50% state match of \$140,500 for a total cost of \$281,000.?

Location

City: Unincorporated

County: Pierce

Legislative District: 028

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

Project Type

SubProject Number: 40000070

SubProject Title: Tenant Improvements - Camp Murray 15

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating Impacts

No Operating Impact

SubProject Number: 40000069

SubProject Title: Emergency Generator - Buckley

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000069

SubProject Title: Emergency Generator - Buckley

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This reappropriation request is to complete the installation of an appropriately sized emergency generator at the Buckley Readiness Center that will supply power in the event of an outage.

Project Description

The Buckley Readiness Center is a community gathering point for the city of Buckley and surrounding communities in the event of an emergency. The Buckley Readiness Center is also the training site for National Guard Army Special Forces Units. During a power outage, this armory must have heat and power to fulfill its mission.

This project includes installing a power generator and related electrical work at the Buckley Readiness Center in order to provide power and heat during power outages. This project is in progress and will be completed within a year.

The power generator will allow the readiness center to function during power outages. Without power, the readiness center will not have adequate lighting, heat, and/or hot water, all of which are important for soldiers, staff, and/or community members seeking shelter during an event.?

Alternatively, the Washington Military Department considered employing renewable energy sources to meet the mission requirements during an outage. Renewables such as solar power, require a source in order to supply power to the building or batteries. During an electrical outage, the solar panels would not perform. Other renewables such as wind power, geo-thermal power, etc., were determined to be costly and ineffective to support the required power load. Diesel-powered generators would only provide three to five days of power before the fuel is spent. Refueling is not possible since transporting diesel fuel across damaged infrastructure during a major earthquake or flood is near impossible for commercial businesses.?

In the future, photovoltaic panels may be considered as prices continue to fall. This will allow the panels to continue to produce power when natural gas flows through the generator.?

This project is reimbursed at 75% by the National Guard Bureau with a 25% state match requirement.

This project is in line with Executive Order (EO) 18-01, EO 13963, and the Energy Independence and Security Act of 2007 requirements to reduce power consumption and increase power reliability. It is the final phase in building a microgrid-type system that will support the mission of the Military Department. This project also meets Anti-Terrorism and Force Protection regulations for supplying power to our units for 14 days.?

This project contributes to statewide goals to reduce carbon pollution and/or improve energy efficiency. The natural gas emissions of the generator are fewer in many of the greenhouse gasses present in spent diesel fumes. Additionally, the generator is a condensing unit between 95% and 98% efficient therefore there is a significant reduction in total emissions. Additionally, this project will enable the facility to employ solar and other grid dependent renewable power generators.?

Location

City: Buckley

County: Pierce

Legislative District: 031

Project Type

Program (Minor Works)

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000069

SubProject Title: Emergency Generator - Buckley

Growth Management impacts

None

New Facility: No

Operating ImpactsNo Operating Impact

SubProject Number: 40000132

SubProject Title: Exterior Lighting-Spokane G. Field Site

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will replace existing exterior lighting wall packs with LED equivalents, route controls through existing photo-sensors and remove interior I/O switches. All pole lamp fixtures will be replaced with LED equivalents.

Project Description

The Geiger Field site is remote and close to the airport. Many of the fixtures are 400-Watt metal halide which are large energy consumers. Exterior lights on the building do not provide enough light to meet the Anti-Terrorism Force Protection standards of one-half foot candles per square foot.

Replacing the existing exterior lighting with LED equivalents, routing controls through existing photo-sensors and removing interior I/O switches will produce safe, efficient lighting for the Geiger Field campus and building's surroundings. Installing new energy efficient fixtures will brighten the area making it safer to walk or operate machinery. This is even more important during the winter months with extended times of darkness. Additionally, replacing these fixtures will reduce outdoor lighting energy consumption by 70%. This project is in line with Executive Order 18-01, Executive Order 13963, and the Energy and Infrastructure Security Act of 2007 requirements to reduce power consumption and increase power reliability.

State maintenance has considered replacing lamps one-for-one, like-in-kind. These parts are getting harder to find and costlier than retrofitting them with an equivalent LED fixture. In addition, it would eliminate the energy efficiency savings projected from this project.

Since this is an energy modernization project, federal reimbursement is 75% from the National Guard. The total cost of the project is \$200,000 with a state match requirement of \$50,000.

Location

City: Unincorporated

County: Spokane

Legislative District: 006

Project Type

Program (Minor Works)

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000132

SubProject Title: Exterior Lighting-Spokane G. Field Site

Growth Management impacts

None

New Facility: No

Operating ImpactsNo Operating Impact

SubProject Number: 40000080

SubProject Title: South Gate Improvements-Camp Murray South Gate

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

New Facility: No

Operating ImpactsNo Operating Impact

SubProject Number: 40000123

SubProject Title: Breakroom Expansion-Joint Base Lewis-McChord bldg 9608

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000123

SubProject Title: Breakroom Expansion-Joint Base Lewis-McChord bldg 9608

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will enlarge the break room and reconfigure the adjacent office area to accommodate the additional employees assigned to the facility.

Project Description

The Unit Training Equipment Site (UTES) was constructed in 1987 with a break room of 424 square feet. The UTES now maintains the new Strykers and the total mechanics assigned to the shop increased to 42. According to National Guard Pamphlet 415-12, the break room should be 896 square feet or about 472 square feet larger, twice the size, than the existing break room.

The project will enlarge the existing break room and reconfigure the existing adjacent office area to accommodate the additional employees assigned to the shop. This will bring the office and break room into compliance with 415-12 and increase countertop space and power receptacles for small appliances.

Renovating this existing building is a more cost effective and sustainable option, extending its useful life and bringing it up to current building code standards. Building an addition will bring the benefit of immediately accommodating more soldiers. Both activities combined are more cost effective and have shorter timelines than new construction.

This project is funded 100% with federally reimbursed funds from the National Guard with no state match requirement. The total project cost is \$500,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating Impacts

No Operating Impact

SubProject Number: 40000128

SubProject Title: Motor Pool Exterior Lighting-Seattle Field Maint System (FMS)

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000128

SubProject Title: Motor Pool Exterior Lighting-Seattle Field Maint System (FMS)

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project is the installation of nine pole lights along the north-east side of the Field Maintenance Shop motor pool.

Project Description

The Seattle Field Maintenance Shop (FMS) motor pool has had multiple break-ins over the last five years. During this time frame transients camped along the fence line. The fence was cut or bent in several places, several units of ready to eat meals (MRE) and other unit equipment was stolen, and property was vandalized. While these transient camps have been removed, the motor pool still finds people sleeping in the military vehicles and items missing from the unit storage. The fence line has little to no light for most of its length, and the opposite side is over-grown with weeds four to five feet high.

This project will install several light poles along this stretch of fence that will illuminate the area and deter people from trespassing on to the property. These lights will protect the military equipment and provide enough light to assist our commercial neighbors by reducing areas of darkness that encourage transient campers.

State maintenance has installed a large LED flood light angled at the fence line. The cost was roughly \$50,000. Shortly after installation, vandalism and theft came to a near immediate halt, the entire fence line was illuminated, and our commercial neighbors were very pleased with the additional light. Shortly after the install, however, our residential neighbors on Queen Anne sent several complaints to the city who made us remove or orient the lights differently. This new orientation did not provide the coverage needed and more incidents began to arise. This request will be for a series of dark-sky compliant, full cut-off lights designed to focus directly where additional light is needed.

The Washington Army National Guard's top priority is the protection of Washington's people, property, and environment. This project directly aligns with the protection of people and property, therefore is inherently part of the overall master plan. This plan includes providing a force protection standard of one-half foot candle per square foot on all our installations.

The Seattle FMS is supported 100% with federally reimbursed funding from the National Guard with no state match requirement. The total project cost is \$350,000.

Location

City: Seattle

County: King

Legislative District: 036

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating ImpactsNo Operating Impact

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 6:11PM**Project Number:** 40000037**Project Title:** Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000107**SubProject Title:** ADA Compliance Yakima (YTC) 870**Starting Fiscal Year:** 2020**Project Class:** Program**Agency Priority:** 6**Project Summary**

This project will design and construct an entrance compliant with the Americans with Disabilities Act (ADA) at building 870 of the Yakima Training Center.

Project Description

Yakima Training Center (YTC) building 870 is not accessible per the Americans with Disabilities Act (ADA). This project will design and construct an accessible entrance to building 870 at the Yakima Training Center.

Renovating this existing building is a more cost effective and sustainable option, extending its useful life, and bringing it up to code.

The project is funded 100% by federally reimbursed funds from the National Guard with no state match requirement. The total project cost is \$300,000.

New Facility: No**Operating Impacts****No Operating Impact**

SubProject Number: 40000108**SubProject Title:** Restroom & Fitness Room-Yakima (YTC 951)

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000108

SubProject Title: Restroom & Fitness Room-Yakima (YTC 951)

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project would renew the existing restroom and fitness center areas in Building 951 at the Yakima Training Center (YTC), including new plumbing fixtures and associated works.

Project Description

Building 951 at the Yakima Training Center was constructed in the 1970's, originally for use as a maintenance shop for Maneuver Area Training Equipment Site (MATES) and then converted to an administrative and training site facility for the 205th Regiment Regional Training Institute (RTI). There were minor improvements over the years, but the current facility only has one female restroom with a single toilet. It does not have any female showers, lockers, or other facilities. The current fitness center is in the open space that used to be a maintenance shop area. It is a disservice to the students of the RTI and members of the National Guard by not having a better training facility with proper fitness center, showers, locker rooms and restrooms.

The project consists of renovating the existing layout of the fitness center and restrooms to also accommodate female showers and locker room. The project includes plumbing fixtures, partitions, water conservation valves, and a new fitness center to provide a complete and modern facility.

Renovating this existing building can be a more cost effective and sustainable option, extending its useful life. This building is used as a training site, so not just the 250th Regiment Regional Training Institute (RTI) unit is impacted by this request, but all soldiers of the Washington Army National Guard and visiting soldiers from other states.

The project is funded 100% by federally reimbursed funds from the National Guard with no state match requirement. The total project cost is \$750,000.

Location

City: Unincorporated

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating Impacts

No Operating Impact

SubProject Number: 40000074

SubProject Title: Lighting & Lighting Control Upgrades-Camp Murray 17-18

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000074

SubProject Title: Lighting & Lighting Control Upgrades-Camp Murray 17-18

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will improve all lighting fixtures and controls throughout buildings 17 and 18 on Camp Murray.

Project Description

Buildings 17 and 18 on Camp Murray have a mixture of electronic and magnetic ballasted fixtures, T-12s and T-8 type fluorescents. The lowest fixture wattage is 64 Watts (64W). Lighting levels are low and dark areas exist in workstations and rooms with tall equipment.

The project will result in well-lit interior building spaces, safe working environments and lower energy consumption and costs. All existing fixtures and ceiling mounted controls will be replaced in preparation for a future roofing project. All 32 Watt, T-8 lamps and standard ballasts will be replaced with 17 Watt, LED lamps, fixtures, and ballasts. Excess fixtures will also be removed. Office spaces will include dimming and color temperature controls reducing eye strain and seasonal affective disorder.

This new system is estimated to reduce building energy consumption by 10%-15%. Additionally, lighting would be distributed evenly around the building reducing eyestrain and providing automated controls that do not rely on staff to remember to turn off lights before leaving. This increases potential energy savings from this project. Design for this space reduces over-lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system.

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment.

Building 17 and 18 are reimbursed 100% by the National Guard Bureau. The total cost of the project is \$100,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Expenditures		2021-23 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	New Approps
001-2	General Fund-Federal				
Total		0	0	0	0

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000074

SubProject Title: Lighting & Lighting Control Upgrades-Camp Murray 17-18

		Future Fiscal Periods			
		2023-25	2025-27	2027-29	2029-31
001-2	General Fund-Federal				
	Total	0	0	0	0

Operating Impacts

No Operating Impact

Narrative

There are no significant impacts on the operating budget.

SubProject Number: 40000084

SubProject Title: Interior Lighting & Lighting Control Upgrades-JBLM 6224

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000084

SubProject Title: Interior Lighting & Lighting Control Upgrades-JBLM 6224

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

Remove all existing fixtures and ceiling mounted controls in preparation for roofing project. Replace 32W, T-8 lamps and standard ballasts with 17W, LED lamps, fixtures, and ballasts. Remove excess fixtures. Office spaces will include dimming and color temperature controls.

Project Description

1. Identify the problem or opportunity addressed. Why is the request a priority? This narrative should identify unserved/underserved people or communities, operating budget savings, public safety improvements or other backup necessary to understand the need for the request. For preservation projects, it is helpful to include information about the current condition of the facility or system.

Lighting is one of the largest energy consumers at this site. The building has a mixture of electronic and magnetic ballasts with T-8 fluorescent lamps. Hallways and public spaces are severely under-lit while cubicle areas are severely over-lit.

2. What will the request produce or construct (i.e., predesign or design of a building, construction of additional space, etc.)? When will the project start and be completed? Identify whether the project can be phased, and if so, which phase is included in the request. Be prepared to provide detailed cost backup.

This project will improve the lit space in and around the building. The project will commence roughly 1- January 2019 and conclude 1 October 2019.

3. How would the request address the problem or opportunity identified in question 1? What would be the result of not taking action?

This new system is estimated to reduce building consumption by 10%-15%. Reducing consumption allows potential future renewable options to be explored. Additionally, lighting would be distributed evenly around the building reducing eye-strain.

4. What alternatives were explored? Why was the recommended alternative chosen? Be prepared to provide detailed cost backup. If this project has an associated predesign, please summarize the alternatives the predesign considered.

Replacing lamps with LED direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants work flow, and cost money in labor and equipment. Installation would require the sole electrician and one Maintenance Mechanic several days to complete. By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels. Additionally, lights in unoccupied spaces – during or after hours – would not be left on. Design for this space reduces over-lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system at a later date. Contractors with the appropriate tools and staff size can then adjust the drop ceiling or patch holes without return trips.

5. Which clientele would be impacted by the budget request? Where and how many units would be added, people or communities served, etc.

All 04 companies, 2 flight detachments and 07 units detachments' soldiers assigned to the Aviation Readiness Center, and all other building occupants.

6. Will other funding be used to complete the project? How much, what fund source, and could the request result in matching federal, state, local or private funds?

This building is funded by a 75/25 split of federal and state funding respectively. Since this project is a modernization of the space, federal reimbursement for the project increases to 100%. Additionally, utility rebates are available through Puget Sound Energy for roughly \$2,500. Of this, 25% would go towards the general fund in support of other state programs.

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000084

SubProject Title: Interior Lighting & Lighting Control Upgrades-JBLM 6224

7. Describe how this project supports the agency's strategic master plan or would improve agency performance. Reference feasibility studies, master plans, space programming and other analyses as appropriate.

This project is in line with Executive Order 18-01, Executive Order 13963, and the Energy and Infrastructure Security Act of 2007 requirements to reduce power consumption and increase power reliability. This project is the initial phase in retrofitting systems that will support the mission of the WMD.

8. For IT-related costs: Does this project fund the development or acquisition of a new or enhanced software or hardware system or service?

No

8.1 Does this decision package (DP) fund the acquisition or enhancements of any agency data centers? (See OCIO Policy 184 for definition.)

No

Does this DP fund the continuation of a project that is, or will be, under OCIO oversight? (See OCIO Policy 121.)

No

If the answer to any of these questions is yes, continue to the IT Addendum and follow the directions to meet the requirements for OCIO review.

N/A

9. If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail. See Chapter 12 (Puget Sound Recovery) in the 2019-21 Operating Budget Instructions.

N/A

10. Does this project contribute to statewide goals to reduce carbon pollution and/or improve energy efficiency? If yes, please elaborate.

Yes. This new system is estimated to reduce building consumption by 10%-15%.

11. Is there additional information you would like decision makers to know when evaluating this request?

N/A

Location

City: Tacoma

County: Pierce

Legislative District: 028

Project Type

Health, Safety and Code Requirements (Minor Works)

Program (Minor Works)

245 - Military Department Capital Project Request

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000084

SubProject Title: Interior Lighting & Lighting Control Upgrades-JBLM 6224

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2021-23 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal					
	Total	0	0	0	0	0
Future Fiscal Periods						
		2023-25	2025-27	2027-29	2029-31	
001-2	General Fund-Federal					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Narrative

There are no significant impacts on the operating budget.

SubProject Number: 40000124

SubProject Title: Motorpool Lighting Upgrade - Joint Base Lewis-McChord 9705

Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000124

SubProject Title: Motorpool Lighting Upgrade - Joint Base Lewis-McChord 9705

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will replace all wall-mounted fixtures with comparable LED fixtures. These fixtures will connect to current photocell lighting controls.

Project Description

Building 9705 on Joint Base Lewis-McChord (JBLM), has several fixtures that are 400-Watt metal halide which are large energy consumers. Exterior lights on the building do not provide enough light to meet the Anti-Terrorism Force Protection standards of one-half foot candles per square foot.

Installing new efficient fixtures will brighten the area making it safer to work or operate machinery. This is even more important during winter months with increased hours of darkness during working hours. Additionally, replacing these fixtures will reduce outdoor lighting energy consumption by 70%. This project is in line with Executive Order 18-01, Executive Order 13963, and the Energy and Infrastructure Security Act of 2007 requirements to reduce power consumption and increase power reliability.

State maintenance has considered replacing lamps one-for-one. These parts are getting harder to find and costlier than retrofitting them with an equivalent LED fixture.

This project is supported with 100% federally reimbursed funds from the National Guard with no state match requirement. The total cost of the project is \$350,000.

Location

City: Unincorporated

County: Pierce

Legislative District: 028

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating ImpactsNo Operating Impact

SubProject Number: 40000178

SubProject Title: Yakima Training Center Lighting Upgrade

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000178

SubProject Title: Yakima Training Center Lighting Upgrade

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project is an upgrade of interior lighting fixtures that will improve the overall lighting in the building.

Project Description

Lighting is one of the largest energy consumers in building 870 at the Yakima Training Center. Hallways and public spaces are severely under-lit while office areas are over-lit. This project will improve the lighting throughout the building.

By replacing all fixtures and upgrading controls, the occupants have greater controls over lighting levels reducing eyestrain and seasonal affective disorder. Lights in unoccupied spaces – during or after hours – would not be left on. Design for this space reduces over-lit spaces by decommissioning excess fixtures. Special design also gives the system the ability to connect to the energy management control system.

The new system is estimated to reduce building energy consumption by 10%-15%. Reducing energy consumption allows potential future renewable options to be explored. This project is in line with Executive Order 18-01, Executive Order 13963, and the Energy and Infrastructure Security Act of 2007 requirements to reduce power consumption and increase power reliability.

Replacing lamps with Light Emitting Diodes (LED) direct replacement lamps has been considered. This would cost considerably less upfront. However, given the mix of ballasts in the building there is a high risk of lamp failure. Each failure would require maintenance staff to return to the site, interrupt the building occupants' workflow, and cost money in labor and equipment.

The project is funded 100% by federally reimbursed funds from the National Guard with no state match requirement. The total project cost is \$200,000.

Location

City: Yakima

County: Yakima

Legislative District: 015

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating Impacts

Total one time start up and ongoing operating costs

SubProject Number: 40000183

SubProject Title: Break Room and Kitchen Upgrades

**245 - Military Department
Capital Project Request**

2021-23 Biennium

*

Version: C1 21-23 BN Capital Budget Request**Report Number:** CBS002**Date Run:** 9/14/2020 6:11PM**Project Number:** 40000037**Project Title:** Minor Works Program 2019-21 Biennium**SubProjects**

SubProject Number: 40000183**SubProject Title:** Break Room and Kitchen Upgrades**Starting Fiscal Year:** 2020**Project Class:** Program**Agency Priority:** 6**Project Summary**

Redesign and upgrade the kitchen and break room of building 32. The modernization will allow increased use of space and increased safety.

Project Description

Redesign and upgrade the kitchen and break room of building 32. The modernization will allow increased use of space and increased safety.

This project is 100% federally reimbursed funds from the National Guard. The project cost is \$402,500.

Location**City:** Unincorporated**County:** Pierce**Legislative District:** 028**Project Type**

Health, Safety and Code Requirements (Minor Works)

Program (Minor Works)

Growth Management impacts

None. The program projects modernize or expand existing facilities with existing purposes.

New Facility: No**Operating Impacts****Total one time start up and ongoing operating costs**

SubProject Number: 40000090**SubProject Title:** Modular Vaults Installation-Redmond Site

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000090

SubProject Title: Modular Vaults Installation-Redmond Site

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will install a federally furnished modular vault at the Redmond Readiness Center and removal of the existing vault which will be installed at another location.

Project Description

The Redmond Readiness Center was constructed in the late 1950's with unreinforced concrete masonry unit (CMU) walls. There is a small modular vault that was set in place several years ago, but it is not large enough for the equipment assigned to this unit. A new larger, federally furnished vault will be installed to replace the smaller vault. The larger modular vault will provide adequate space for weapons and other sensitive equipment, without spending too much funding for the enlargement of the existing vault.

The project is funded 100% by federally reimbursed funds from the National Guard with no state match requirement. The total project cost is \$80,000.

Location

City: Redmond

County: King

Legislative District: 048

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating Impacts

No Operating Impact

SubProject Number: 40000066

SubProject Title: Modular Vaults Installation-Anacortes Site

**245 - Military Department
Capital Project Request**

2021-23 Biennium

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Version: C1 21-23 BN Capital Budget Request

Report Number: CBS002

Date Run: 9/14/2020 6:11PM

Project Number: 40000037

Project Title: Minor Works Program 2019-21 Biennium

SubProjects

SubProject Number: 40000066

SubProject Title: Modular Vaults Installation-Anacortes Site

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 6

Project Summary

This project will install a federally furnished modular vault at Anacortes Readiness Center.

Project Description

The Anacortes Readiness Center was constructed in the early 1960's. It has a 10 x 20 feet arms vault that is too small for the unit's weapons and sensitive equipment. This is a high-risk safety and security issue. The building itself is already too small for the unit, therefore there is no room to expand the existing vault. Installation of a modular vault will provide adequate space and security for weapons and other sensitive equipment assigned to the unit.

This project is 100% federally funded by the National Guard with no state match requirement. Total project cost is \$80,000.

Location

City: Anacortes

County: Skagit

Legislative District: 040

Project Type

Program (Minor Works)

Growth Management impacts

None

New Facility: No

Operating Impacts

No Operating Impact

Capital Project Request

2021-23 Biennium

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<u>Parameter</u>	<u>Entered As</u>	<u>Interpreted As</u>
Biennium	2021-23	2021-23
Agency	245	245
Version	C1-A	C1-A
Project Classification	*	All Project Classifications
Capital Project Number	40000037	40000037
Sort Order	Project Priority	Priority
Include Page Numbers	Y	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids