

WASHINGTON MILITARY DEPARTMENT
Agency Number: 245

PLAN FOR SUSTAINABLE PRACTICES

The Washington Military Department (WMD) is committed to setting the standard in best practices in sustainability in all of its operations including fleet management, procurement, and facility maintenance and construction in successfully executing its mission to the state. WMD considers itself a leader among all state agencies in the protection of our environment and natural resources and in fulfilling its responsibilities under Executive Order 02-03. The agency's sustainability practices are founded in the philosophy of meeting the needs of the present without compromising the ability of future generations to meet their needs.

WMD's sustainability plan is founded on using staff education, personal involvement, professional innovation, and emerging technology as enablers to assure the best sustainable practices are applied to **resource conservation; recycling; and waste stream reduction**. This plan incorporates proven practices employed by other agencies – both state and federal – that have successfully impacted these three areas of emphasis.

WMD will focus on the following activities and objectives, both short and long term, in implementing this plan.

1) The **use of environmentally friendly products** where available in all agency operations. This includes the use of “green” janitorial products that minimize exposure impacts to employees; that minimize impacts to indoor air quality; and reduce the potential for hazardous waste stream generation. This is currently a WMD practice. Additionally, in January 2004, WMD will begin using “green” solvents in equipment parts washes/solvent baths as these products become available through the state and federal supply systems, to improve air quality, minimize risks to employee health, and reduce our hazardous material waste stream.

2) Adopt the requirements of both the Green Building Councils “LEED” and US Army's “SPIRIT” requirements for the certification of new facility construction as “green buildings.” The new Spokane Readiness Center, with a design start in the fall of 2003, will be designed and constructed to meet the “LEED” bronze standard. **Beginning in 2006, all new WMD facilities will be designed, constructed, and operated to the “LEED” silver standard/”Spirit” gold standard for sustainable buildings.**

3) **Reduce potable water demand statewide.** WMD will continue to retrofit existing facilities with low flow fixtures and experiment with new products – such as “waterless” urinals – to minimize water consumption. The goal is to establish a baseline of water consumption at all facilities over the 2003-2005 biennium, and program measures in the out biennia to reduce water consumption in our facilities by 10% before 2010. This effort will include capital improvements to construct water wash down recycling systems at our most heavily used military equipment maintenance facilities – to be completed by 2015.

Additionally, we will look for ways to capture non potable water sources, such as through roof top collection systems to augment irrigation water requirements, to assist in meeting this potable water reduction goal.

4) **Energy conservation and utilization of non fossil fuel energy sources** is a significant part of WMD's plan. The agency currently uses state of the art energy management systems (EMS) in minimizing energy consumption. WMD will continue to improve upon EMS as new energy management technologies enter the marketplace. Today, WMD is programming in its capital budget the replacement of old technology heating/cooling systems with high efficiency/new technology systems (such as high efficiency boilers and ground source heat pumps) that minimize energy consumption. WMD will continue to update its lighting systems to electronic ballasts and occupied space lighting technologies. In 2003-2005, WMD will begin using "green" power. In the 2003 supplemental budget, WMD will request additional funds to move 5% of its electrical power consumption to renewable sources. The agency intends to shift 5% of its power requirements to renewable electrical generation sources per biennium until 20% of the agency's electrical power requirement is provided by renewable sources. We hope to attain this goal by the year 2012.

5) **The use of flex fuel vehicles.** WMD's state owned vehicle fleet meets the requirements of its employees in supporting its current operations. As this fleet ages, we will replace existing vehicles with both diesel and flexible fuel vehicles. We will develop a fleet usage baseline over the period of July 2003 to June 2004 that will document mileage, fuel consumption, and maintenance/repair costs to determine an annual operating cost for each vehicle. From this, we will determine a vehicle replacement standard for all vehicle types within the fleet with the goal of creating a fleet comprised wholly of diesel and flexible fuel vehicles by 2015.

6) **Partnerships for alternative fuel stations.** The barrier to move to alternative fuel vehicles, both biodiesel and ethanol based gasoline, is the lack of alternative fuel stations. WMD intends to partner with the US Army at Ft Lewis to design and construct an alternative fuel station along the I-5 corridor, to be available for use by 2010.

7) **Increase use of recycled office paper products.** WMD will perform a survey to determine a baseline on paper type and paper use from July 2003 to June 2004. The goal is to move to the use of 100% recycled paper in all offices over the next two biennia. Additionally, WMD will move to use printers that support 2 sided printing which should significantly reduce paper consumption.

8) Future computers and ancillary equipment will be from manufactures that have an aggressive CPU, monitor, and printer equipment recycling program. Beginning in January 2004, we intend to procure only those **computer systems that are "energy star" rated** to reduce power demand from these systems.

9) **Building upon our existing hazardous waste turn in/recycling program.** WMD has an aggressive and successful program for managing hazardous material waste streams from procurement to disposal, managed through the agency's environmental program.

10) **Improve existing and construct new storm water treatment systems.** This will minimize release of contaminants from equipment/vehicle operations back into the environment. By 2015 we will have effective storm water treatment systems, either bio filters or mechanical filters, to treat storm water run off from all our equipment and vehicle parking areas throughout the state.

The agency's Capital Management Division is responsible for maintaining and updating this plan. This division will establish a Sustainability Advisory Council with membership comprised from the three divisions within the Washington Military Department: the Army National Guard; the Air National Guard; and the Emergency Management Division. The Advisory Council will assure that the agency continues to implement best practices that further this plan. The Capital Management Division will be responsible for publishing periodic sustainable practices information packages for electronic distribution to all agency staff; to communicate the content of this plan and other programs and policies the agency adopts relating to sustainable practices; minutes of meetings of the advisory council; and the successes of the agency in meeting the objectives of this plan.

In accordance with Executive Order 02-03, the Washington Military Department will deliver an annual report beginning October 15, 2004, and on every October 15 thereafter, to the Office of Financial Management, on its progress in implementing this plan and meeting the long term goals outlined in the executive order.

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