

# THE NV-ARNG CFMO / ENVIRONMENTAL NEWSLETTER

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## From The CFMO

The Construction and Facilities Management Office mission statement is: "To provide state-of-the-art, community based, installations and training sites that, by virtue of their geographical dispersion, can be leveraged by the Army and the State; and that facilitate communications, operations, training and equipment sustainment to support the deployment of required forces and other assigned State and Federal missions."

So how are we doing? Are we planning, designing, constructing, protecting and maintaining installations and training sites that meet mission? I would appreciate your feedback. Customer (Soldier) input is a compelling factor in our evaluation and improvement of our business practices. We will continue to drive for progress that enables us to change and adapt without compromising our core ideals; however, we need your comments and suggested solutions to fully assess our operation. Look forward to hearing from you.

MAJ Clayton Chappell

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## Pollution Prevention Tip!

**Help change the consumable culture. You can now obtain "green" re-usable grocery store bags at most outlets. Pick up three or four and use them again and again, no more "paper or plastic"**

## Projects and Construction Update

**Sewer Line- WCA/AASF** A new sanitary sewer line will transport facility wastewater at the Washoe Co Armory/AASF to an existing off-base RTAA sewer main tap location at the south end of the site. The NV-ARNG will discontinue use of the current septic and leach field systems now in use. The new sewer main, a combination of gravity and forced main runs, incorporates a lift station in it's design and travels approximately 1.5 miles over its distance. This utility improvement will provide the benefit of increased NDEP compliance, accommodation for future growth through increase in available land space and the convenience for future taps. Additionally, the CFMO office will correct several areas throughout the facility where substandard AC paving exists. The project is slated for completion by early December 08 or sooner.

### **October Project Starts**

**AASF ALSE Locker Room project** – The FMO will be relocating the AASF locker room to allow provisions to accommodate Aviation Life Saving Equipment (ALSE).

**AASF Offices Remodel** – Once the ALSE Lockers are relocated there will be two office spaces created in the abandoned locker room area. These offices will be outfitted with new communication / data drops as well as electrical & mechanical services.

**AASF Mechanic's Office** - This project will install a new storefront system where an existing exterior overhead roll-up door has been removed.

**AASF Destratification Mechanical Modification** – Upgrading and replacing various mechanical and control equipment which will create a more suitable hangar / facility temperature in summer and winter weather.

**STC Erosion Control** - The project provides concrete L-curbing and spillway at "Tropo Yard" lower lot to control / divert water runoff.

**B-19 Range Containment Pad** - Addition of concrete pad with filtration to provide environmental protection from range equipment leakage.

### **ELY Armory Remodel**

The year long project to remodel and update the Ely Armory is nearing completion. The General Contractor, Building Solutions of Reno NV, has replaced most all the utility services to the armory, successfully remodeled the inside and spruced up the exterior. The parking area was replaced and new fencing is installed. This \$1.7 Million dollar project completes efforts to upgrade rural area armories. The project was funded with a combination of federal and state funds.

The remodel updated the classrooms, offices, supply areas and includes the installation of a modern, more energy efficient, heating system. The windows and doors were upgraded to dual glazed impact resistant glass to reduce damage and utility costs. The new restrooms incorporated ADA features and more water efficient fixtures. The members of the 72nd MP unit are expected to start using their remodeled armory in November.

## Environmental Elephant Bites

### **Presidential Executive Order 13423**

Link: [EO 13423](#)

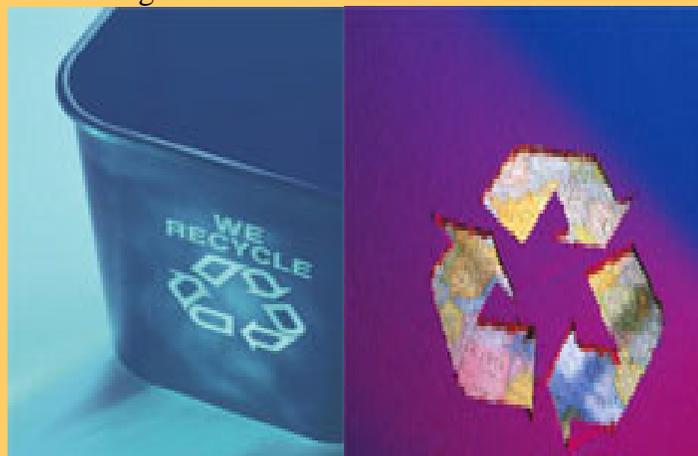
Check out this link to read the major environmental tenants specified in this directive. It is a quick and easy to understand overview of our nations, and thus the NGB's guidelines on environmental policy. It will help you understand topics such as Renewable Energy, Recycling, Pollution Prevention (P2), and other major directives which governmental agencies and the private sector must move toward to promote environmental stewardship in our nation and the world as a whole.

### **Recycling Update**

Thank you to the entire NV-ARNG community for your efforts on recycling. We have some major initiatives moving forward to step up to the next level. Some success stories and plans gaining steam:

**NORTH** - All cardboard at the OTAG complex is now being recycled, along with white paper, aluminum, and plastic bottles, used concrete, asphalt, and metal. Thanks to the tallying efforts of the State Maintenance team, over 60,000lbs of material has been recycled just at the OTAG complex year to date. Yes, that is 60,000lbs less material in our land fill. More education to come.

**SOUTH** – A new program will kick off in November 2008, ready to start at LVRC and then to other LV facilities. Republic Inc. will support the NV-ARNG recycling 60% of refuse consumables at our facilities with receptacles in our offices to collect paper, cardboard, plastic, cans, and other material all within one container. MSG Pearson will spear head the effort and training in the south.



## Renewable Energy Moves Forward



### **REAT Kicks Off**

The Renewable Energy Action Team (REAT) is an "action" group with members and contributors from the Guard, the commercial business community and other interested renewable energy advocates. The team meets once each week at lunch time to further Nevada Guard renewable energy projects.

### REAT Mission Statement:

"To implement viable renewable energy sources to Nevada Army National Guard facilities"

REAT Vision Statement: "To meet or exceed the statutorily renewable energy requirements of the President's Executive Order 13423 (see article above). 30% reduction in current energy intensity by by 2015. 50% of facilities energy consumed produced by renewable resources (non fossil plant energy).

This action team will move forward with implementation plans for projects which consume no fossil generated energy. The team plans on being integrally involved with the State of Nevada Energy Office and developers within the local and national community to design, build, and implement projects.

## Environmental Training Update

### **RAPID LEARNING OBJECTIVES (RLO's), NOW AVAILABLE ON LINE**

Go to [Nevada Army National Guard Environmental Website](#)

As discussed in the last newsletter, these modules are designed to help all Soldiers in the NVARNG to understand some key Environmental issues. There is also a printable certificate at the end of each course. These courses are:

1. Hazardous Waste Accumulation
2. Green Procurement
3. Universal Waste
4. Oil Water Separators
5. Weapons Cleaning
6. Used oil and Anti freeze
7. Vehicle Refueling
8. Spill Abatement
9. NEPA REC ( Record of Environmental Consideration)
10. Hazardous Waste Management

## Compliance Corner

### **Radon Testing at Nevada Army National Guard Facilities**

In the coming months, facilities at the Fairview, LVRC and Harry Reid Complexes will be tested for the presence of Radon. If you notice a small disk posted on a card in your workspace please do not disturb. The detectors will remain posted for **one year** and will be analyzed to determine the concentration of Radon in these facilities. Environmental Office Staff will work with facility and program area managers to select appropriate sites and to ensure the detectors do not interfere with work spaces.



### **What is Radon?**

Radon is a radioactive, colorless, odorless, and tasteless gas. It is formed as natural deposits of uranium throughout the earth's crust decay. As radon decay products are inhaled, they can alter the cells in the lungs. These alterations can increase the potential for getting lung cancer. Radon is the second leading cause of lung cancer behind smoking. An estimated 14,000 people die of radon related lung cancer each year.

EPA has made the recommendation of no long-term radon exposures above 4 pico curies/liter (pCi/L). This action level was based on both health and economics. The only way to tell if a building has elevated levels of radon is to have it tested.

### **What are radon decay products?**

Radon, although a chemically inert gas, is an unstable atom. It will breakdown, or radioactively decay, into other elements. These elements, since they are derived from radon are called radon decay products. When radon is present in the room, its decay products will also exist. When you inhale, you inhale both the radon and the radon decay products. When you exhale, the radon is exhaled, but the radon decay products will remain in the lungs. That is because the radon decay products have electrostatic charges that cause them to adhere to lung tissue. Although the lungs can expel them through the normal clearing process, it takes a fair amount of time to do so and in that time frame the decay products themselves, will breakdown, releasing alpha radiation to surrounding tissue.

## Community Outreach

**The National Guard's CFMO provides a give and take feedback forum to contribute to and learn from our construction industry counterparts**

### Project Planning

A more effective Planner utilizes the latest technologies as well as feedback from the Contractor/subcontractors to develop an accurate project outlook. In Construction Management, it is important to listen and react to the needs of the work force. Scheduling tools these days are far more advanced than they were just a few years ago. Automated project management software programs are time efficient and user friendly. Material shortages, environmental issues, contracted time lines, permitting and inspection requirements, and contract additions can affect project schedules. All these issues are effectively tracked with project management tools.

Another scheduling tool I use is a three week outlook schedule built in a spreadsheet format. Planning and scheduling tools such as these would be useless without the input of the subcontractor. Once each week, the construction management team sits down with all of the subcontractors on the project to discuss issues they are having and if those issues will effect the schedule. At that time, we can revise the schedules so that the synergy of the project can continue. One tool that MBI uses to standardize the construction management process is to hold monthly Project Review meetings. In these meetings, all of the Project Managers sit down and go over each individual project. Things such as budget, schedule and conflicts are discussed openly with the Operations Manager, so that every Project Manager has the opportunity to give feedback. This process functions as a "peer-review". These meetings are extremely positive; in that, they build the Project Managers knowledge of the issues which affect the project as a whole.

Nigel A. Harrison  
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See our article on "Renewable Energy Planning" in the next newsletter issue

## Quick and Useful Links

[Environmental Officer Training Course](#)

[US Army Sustainability Site - Home](#)

[Nevada Division of Environmental Protection](#)

[Nevada Army National Guard - Environmental](#)

[FMO Intranet Mapping Service - GIS](#)

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