



United States Air Force Warfare Center

Nevada Joint Military Affairs Committee

**Colonel Kenneth Keskel
Vice Commander
99th Air Base Wing**



**This Briefing is:
UNCLASSIFIED**



Enabling America's Combat Edge



Nellis Solar Energy – PV



- 15 MW peak output
- VEP for 14.2 MW peak output
- Supplies 20-25% of base electricity
- Constructed by Sun Power Corp
- Financed by MunieMae
- Nevada power to purchase RECs
- 20 year land lease
- 140 acre site includes capped landfill
- Groundbreaking 23 April 2007
- Start in May 2007
- Complete by December 2007



LESSONS LEARNED

- **Use competitive RFP solicitation**
 - Insures least cost for the Air Force and
 - Minimizes potential for protest
- **Use an indefinite term utility contract simplify process**
 - Can be approved and awarded at base level
 - Long term land lease provides required stability for investors
- **Use a small dedicated core team (5-8 people)**
 - Establish direct, frequent communication between members
 - Conduct meetings at major milestones
 - Streamlines RFP development and evaluation process
- **Involve all stakeholders from the start**
 - Real property, contracting, legal, environmental, engineering



LESSONS LEARNED

- **Include model interconnect agreements with the RFP**
- **Clearly rank proposals in order**
 - Document non-conforming proposals
 - Provides additional support in case of a protest
- **Formalize business case for leadership briefing/review**
- **Review proposals for stated or implied contingencies and ensure they are extinguished**
- **Secure funding for EA, EBS, legal survey, and land appraisal before the project moves forward**
 - Complete these tasks early to avoid delays
- **Clearly define calculation method for “low bid” in RFP**
 - Base the calculation on life cycle cost



LESSONS LEARNED

- **Establish primary and alternate representatives for all organizations**
 - Insures continuity as primary members may not always be available
- **Air Force should put out their own RFP from the start**
- **Ensure functional experts are readily available to answer contractor questions once the RFP is published**
- **Educate construction inspectors about unique requirements for contract vehicle used**
 - Many normal construction requirements do not apply
- **Future expansion and State assistance (net metering, etc.)**

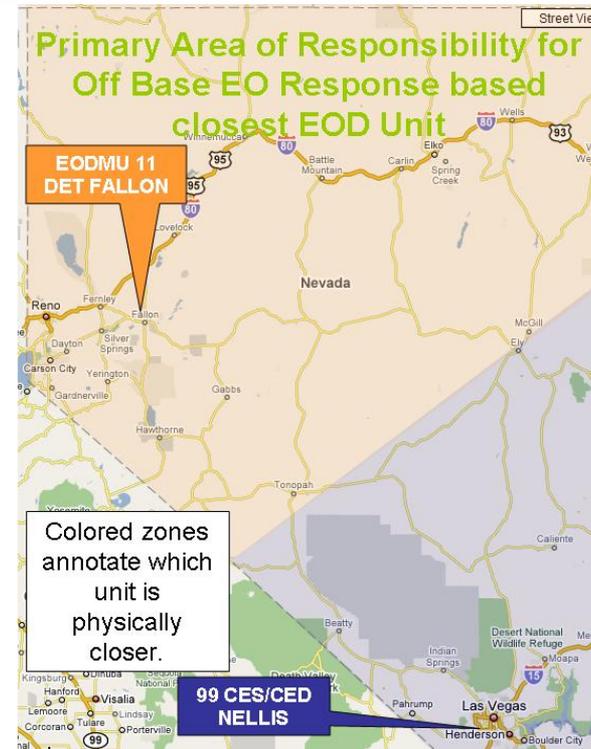


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UXO Contact Information

- **US Army is the executive agent for Nevada**
- **Who to call when someone finds an unexploded ordnance (UXO)?**
 - Local authorities should contact County Emergency Managers (EM)
 - County EM in turn will contact State EM (latter will assign a State EM mission number and will request assistance from the appropriate military installation)
- **North of Tonopah is Fallon's Area of Responsibility and contact POC is the Command Duty Officer at (775) 426-2715**
- **South of Tonopah is Nellis' AOR and contact is the Command Post at (702) 652-2446**





EPA Performance Track Program

- 31 Jul 08 Performance Track Induction Ceremony held at Nellis
- EPA Region 9 would like to encourage more federal participation (57 members, only two are Federal agencies)
- Participation makes business sense from an environmental and operational standpoint



- Performance Track is a voluntary partnership program that recognizes and rewards private and public facilities that demonstrate strong environmental performance beyond current requirements
- Qualifications: independently-assessed Environmental Management System (EMS), have a record of sustained compliance with environmental laws & regulations, commit to achieving measurable environmental results that go beyond compliance, and provide information to the local community on their environmental activities



Performance Track Commitments

- Renewable energy: Installed one of the largest photovoltaic arrays in the US, over 140 ac of which 33 ac is capped landfill
- Water conservation: Converted over 784K sq ft grassy lawns into xeriscape
- Paint related waste reduction: Reuse, recycling, reduce
- Improve waste water discharges through zinc reduction from industrial operations: Target transportation and aircraft ground equipment maintenance facilities





Performance Track Program Incentives and Savings

- **Incentives requested:**
 - Reduced frequency of State/County inspections for air, water, hazardous waste, landfill and underground storage tanks
 - Extend hazardous waste storage times and reduce frequency of hazardous waste self-inspections
 - Reduce frequency of discharge monitoring reports, opacity readings, and moisture testing
- **Potential savings for Nellis is estimated to be over \$100,000 per year to be reinvested in operational sustainability**



NELLIS NEPA UPDATE

- **F-35 Beddown EIS**

- Public hearings completed – issues identified were noise and air quality impacts
- USAF and Clark County working in concert to include increase in NO_x (ozone precursor) and CO into the State Implementation Plan (SIP)
- ECD for ROD signature is early 2009





QUESTIONS?



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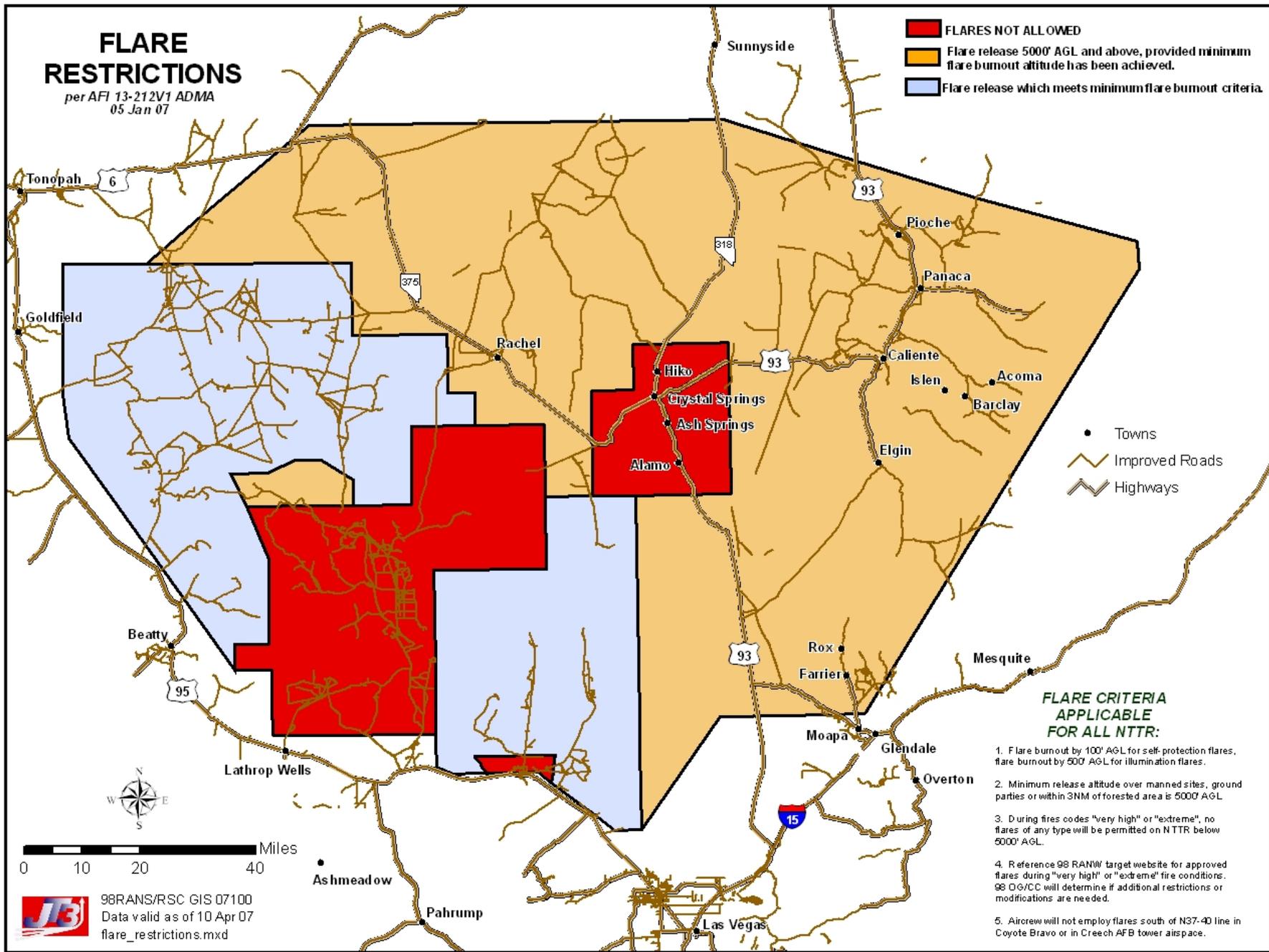
Flare Restrictions

- **Governing directive: AFI 13-212 Vol 1, Nellis Addendum A**
- **Use Requirements:**
 - Flare release altitude in the MOAs and Pahute Alpha/Bravo is 5,000 ft AGL and above
 - Minimum flare release altitude for self-protection flares is that altitude which allows the flare to burnout prior to 100 ft AGL
- **Flares burn out 500-700 ft below aircraft**

FLARE RESTRICTIONS

per AFI 13-212V1 ADMA
05 Jan 07

- FLARES NOT ALLOWED
- Flare release 5000' AGL and above, provided minimum flare burnout altitude has been achieved.
- Flare release which meets minimum flare burnout criteria.



- Towns
- ~ Improved Roads
- ~ Highways

FLARE CRITERIA APPLICABLE FOR ALL NTR:

1. Flare burnout by 100' AGL for self-protection flares, flare burnout by 500' AGL for illumination flares.
2. Minimum release altitude over manned sites, ground parties or within 3NM of forested area is 5000' AGL.
3. During fires codes "very high" or "extreme", no flares of any type will be permitted on NTR below 5000' AGL.
4. Reference 98 RANW target website for approved flares during "very high" or "extreme" fire conditions. 98 DG/CC will determine if additional restrictions or modifications are needed.
5. Aircrew will not employ flares south of N37-40 line in Coyote Bravo or in Creech AFB tower airspace.

0 10 20 40 Miles



98RANS/RSC GIS 07100
Data valid as of 10 Apr 07
flare_restrictions.mxd