

History of the Nevada Federal Facility Agreement and Consent Order



Rob Boehlecke,
Environmental Management Operations Manager
Educational Session for
Nevada Site Specific Advisory Board
May 21, 2014



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

January 1993

- Meeting held between the State of Nevada Division of Environmental Protection (NDEP) and the Department of Energy (DOE), Environmental Management (EM) to discuss a strategy plan for environmental restoration at the Nevada Test Site (NTS) – currently known as the Nevada National Security Site
- Key points of meeting:
 - DOE to prepare draft based on Los Alamos National Laboratory agreement for NDEP review
 - Will the NTS go on the National Priorities List?
 - If NTS is not placed on National Priorities List, a Resource Conservation and Recovery Act (RCRA) Corrective Action Order would be negotiated as part of the Part B Permit



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

January 1993

(continued)

- Three 'Operable Units' were discussed as targeted cleanup areas:
 - Underground Test Area (UGTA) – biggest concern for both parties
 - Soils Media
 - Potential Source Media
- Sites listed in RCRA Part B Permit would be starting point for sites to be addressed for cleanup
- Waste Management would not be included in agreement



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Ongoing Negotiations (1993)

- Negotiation Meetings were held throughout 1993
 - NDEP suggested that an inventory of the environmental restoration sites would be an appropriate first phase
 - DOE/NV suggested that the inventory be a “moving” appendix to the agreement that could be amended and updated independently of the agreement
 - The three original ‘Operable Units’ suggested were defined as the following:
 - Soils Sites
 - Industrial Sites
 - UGTA



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Ongoing Negotiations (1994-1996)

- DOE and NDEP agreed that a substantial amount of dedicated time was needed to complete the agreement, because once the Federal Facility Agreement and Consent Order (FFACO) was in place, it would replace the corrective actions section in the RCRA Permit. The RCRA Part B permit was issued May 1995. The permit was for Interim Status for Pit 3, with closure required once the new Mixed Waste Disposal Unit was constructed. The new RCRA Permit was issued December 2010.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Ongoing Negotiations (1994-1996) (continued)

- By early 1996, the agreement and appendices were written
- By mid-year 1996, all parties signed the FFACO:
 - NDEP signed on March 26, 1996
 - DOE/NV signed on April 4, 1996
 - Department of Defense (DoD) signed on May 10, 1996 - FFACO went into effect



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Contents

- Main Body – Parts I thru XXVII (27)
 - Introduction
 - Agreement not intended to impact or limit ongoing site characterization at Yucca Mountain and activities conducted are specifically excluded
 - Part I - Parties
 - NDEP, DOE (later specified to include Legacy Management), and DoD



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Contents

(continued)

- Part II – Purpose
 - Identifying sites of potential historical contamination
 - Providing all parties with sufficient information to enable adequate evaluation of appropriate remedies
 - Ensuring parties work together in a cooperative manner which enables cost effective corrective actions



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Contents

(continued)

– Part IV – Definitions

- Agreement Coordinator – Rob Boehlecke for DOE and Chris Andres for NDEP
- Community Advisory Board – formally constituted and chartered board created under the Federal Advisory Committee Act
- Corrective Action – may range from no action to clean closure
- Corrective Action Sites (CASs) – refers to sites potentially requiring corrective actions



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Contents

(continued)

- Part VIII – Stipulated Penalties
 - Monetary fines if deadlines missed
 - DOE or DoD can petition for extensions
- Part X – Extensions
 - Requires a written request to NDEP that specifies length of extension and cause(s)
- Part XII Corrective Action Investigations/Corrective Actions
 - Defines the process by which milestones are established
 - Includes completion date for UGTA (only milestone required beyond fiscal year plus 2 years)
 - Defines time frames for review of documents by NDEP



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Contents

(continued)

- Part XIII – Sampling and Data/Document Availability
 - Split samples
 - NDEP access to all supporting documentation
- Part XIV – Access
 - No reasonable access shall be denied NDEP personnel
- Part XVII – Public Involvement
 - Requires a Public Involvement Plan for actively seeking public input
 - Establishes public reading rooms
- Part XVIII – Retention of Records (see slides 41 - 43)



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Contents

(continued)

- Part XXI – Classified and Confidential Information
 - NDEP can hold clearances, must still have a need to know
 - Acknowledges that some modeling data can not be disclosed
- Appendix I – Description of Facilities
 - NTS now Nevada National Security Site
 - Tonopah Test Range
 - Central Nevada Test Area
 - Project Shoal Area
 - Nellis Air Force Range now Nevada Test and Training Range



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Contents

(continued)

- Appendix I – Description of Facilities (last update February 2008)
- Appendix II – CASs/Units (not yet started)
- Appendix III – Corrective Action Investigations/Corrective Actions (ongoing)
- Appendix IV – Closed Corrective Action Units (CAUs)
 - Appendices II – IV updated semi-annually
- Appendix V – Public Involvement Plan (last update July 2011)
 - NSSAB reviewed and commented on this appendix as a work plan item in FY 2008
- Appendix VI – Corrective Action Strategy (last update May 2011)



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO / RCRA / Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Requirements

The table below show the comparisons between the three requirements:

FFACO	RCRA	CERCLA
<p>Identification of Corrective Action Sites (CASs) and Grouping into Corrective Action Units (CAUs) in Appendix II – “Corrective Action Sites/Units” – Sites grouped based on source of contamination, responsible agency, function, location, and time to complete corrective actions. CAUs prioritized and transferred to Appendix III “Corrective Action Investigations/Corrective Actions” when scheduled for activity. Existing information compiled and assessed to determine if further investigation is required and applicable corrective action process assigned (i.e. Housekeeping, Complex or Streamlined Approach for Environmental Restoration [SAFER])</p>	<p>RCRA Facility Assessment (RFA) – comprehensive review of pertinent facility information. Includes facility description, environmental setting, document review for potential or actual chemical releases, summary of potential human and environmental exposure due to releases, and recommendation for further action.</p>	<p>Preliminary Assessments (PA) – records search and site visit with no sampling. Typical PA report contains site history, site characteristics pathway analysis, and recommendations for additional action.</p>



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO / RCRA / CERCLA REQUIREMENTS

(continued)

FFACO	RCRA	CERCLA
<p>Investigation Plans - Corrective Action Investigation Plan (CAIP) contain or reference all necessary management; technical; quality assurance; health and safety; community relations; field sampling; and waste management information. Optional CAU work plans developed as umbrella plan for common information. If SAFER process is appropriate, SAFER Plan contains all necessary elements usually found in CAIP, Corrective Action Decision Document (CADD) and Corrective Action Plan (CAP).</p>	<p>RCRA Facility Investigation (RFI) - Plan contains an explanation of the overall approach, including the objectives and schedule; the technical and analytical approach; quality assurance procedures; and data management procedures.</p>	<p>Remedial Investigation (RI) - Study collects data for site and water characterization. First, all previous data are examined. The a work plan is prepared that includes sampling and analysis procedures; a baseline risk assessment; health and safety protocols; and community involvement.</p>
<p>Corrective Action Investigation (CAI) - Conducted using defined Data Quality Objectives (DQOs). If SAFER process is appropriate CAI verifies existing data; affirms corrective action decisions; and provides data for implementation. If complex process applicable CAI provides data to evaluate corrective action alternatives.</p>	<p>RCRA RFI – Includes characterization of hazardous constituents released; rate and direction of contaminant movement; and distance releases have migrated. Interim corrective actions may be implemented if imminent hazard is found.</p>	<p>Site Investigation – Sampling and analysis program focuses on media most likely affected. If results of initial sampling indicate more information is needed expanded site inspection conducted to gather information for Hazard Ranking Score.</p>



FFACO / RCRA / CERCLA REQUIREMENTS

(continued)

FFACO	RCRA	CERCLA
Corrective Action Decision Document (CADD) – Provides selected remedy and rationale for its selection.	Corrective Measure Study (CMS) – Identifies and recommends specific measure to correct hazardous constituent release.	Feasibility Study (FS) – Conducted concurrently with RI and designed to develop; screen; and evaluate potential remedial alternatives. Includes treatability studies; assessment of residual risks; and detailed analysis of alternatives based on treatability studies.
Nevada Division of Environmental Protection (NDEP) approval of CADD and proposed corrective action or closure.	Environmental Protection Agency (EPA) or NDEP approval of recommended corrective measures.	Record of Decision (ROD) – EPA selects alternative. ROD includes a review of previous work; a remedial action plan; a selection rationale; and a community relations plan.
Corrective Action Plan (CAP) – Prepared when the CADD requires a corrective action. Primarily a design document to implement the corrective action.	Corrective Measure Implementation (CMI) – The corrective measure selected by the regulatory agency is implemented. This may include long-term monitoring.	Record of Decision Implementation (RODI) – Implementation of the remedial action specified in the ROD.

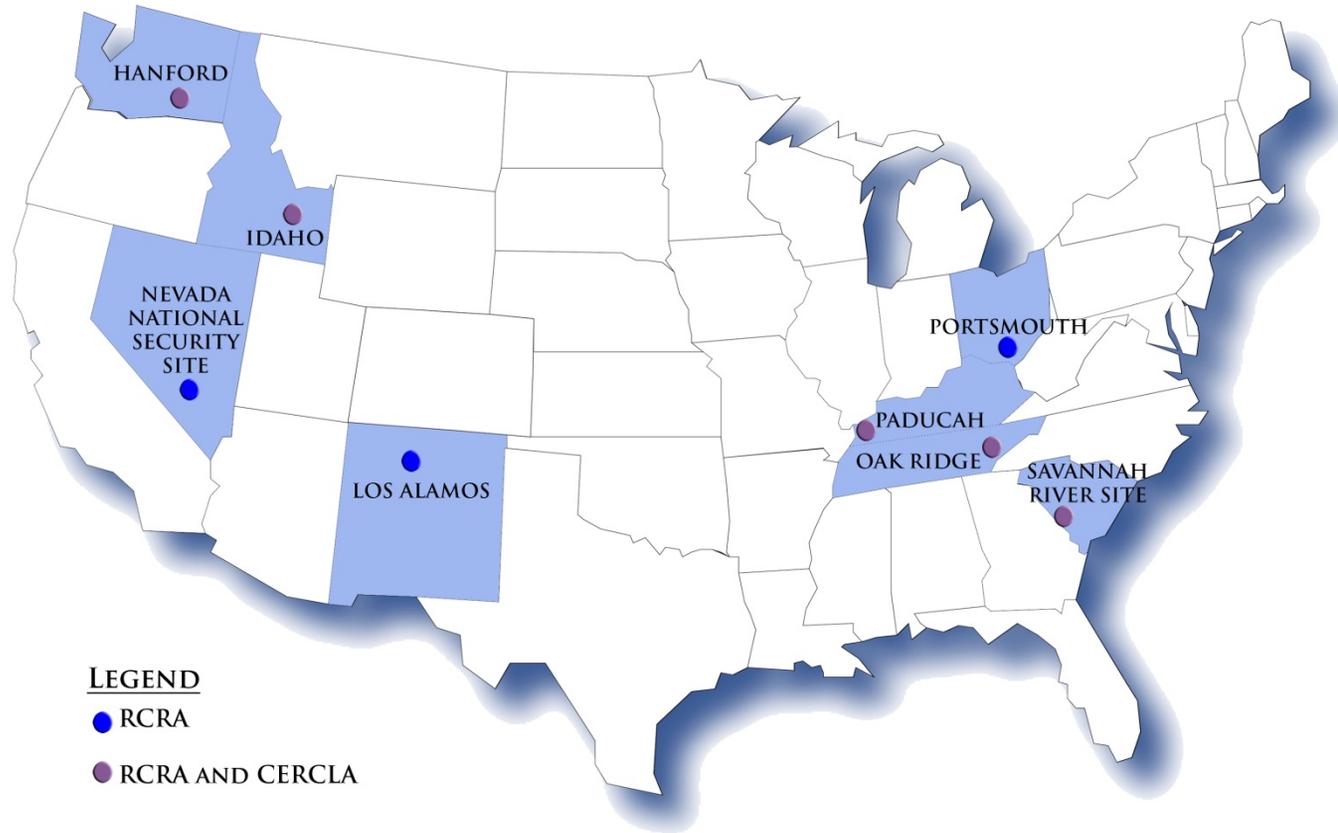


EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Regulatory Authority Agreements

U.S. DEPARTMENT OF ENERGY ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARDS



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

1996 / 1997

- Negotiation meetings continued to refine features of the Agreement
 - Agreement established Quarterly Meetings for continued discussions on the Agreement and its implementation
 - NDEP accepts DOE proposal of CAUs/CASs listed as closed in Appendix IV “Closed CAUs”
 - CAU 5000 in Appendix IV created to house CASs requiring “no further action”
 - Draft Public Involvement Plan distributed to NDEP for review – draft of initial plan given to the Community Advisory Board (now the Nevada Site Specific Advisory Board [NSSAB]) for review and comment at the December 1996 meeting
 - NDEP and DOE agree that Appendices II, III and IV would be updated semi-annually



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

1996 / 1997

(continued)

- May 1996 – The FFACO Agreement considered final on May 10, 1996 with the last signature of the parties received, increasing the scope of the required reporting for all sites in Nevada; therefore sites located on the Tonopah Test Range, Project Shoal Area, and the Central Nevada Test Area were added to the Appendices



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

1998 - 2010

- March 1999 – The first of several “Letter Agreements to Modify,” the language of the Agreement was signed by all parties, these Letter Agreements modify certain parts of the Agreement until the Agreement itself is modified. This Letter Agreement modified the language regarding the setting of deadline dates for milestones.
- July 2000 – This Letter Agreement modified the language to clarify that changes to Appendices II, III, IV, V, and VI would not be considered as “Modifications to the Agreement.”



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

1998 – 2010

(continued)

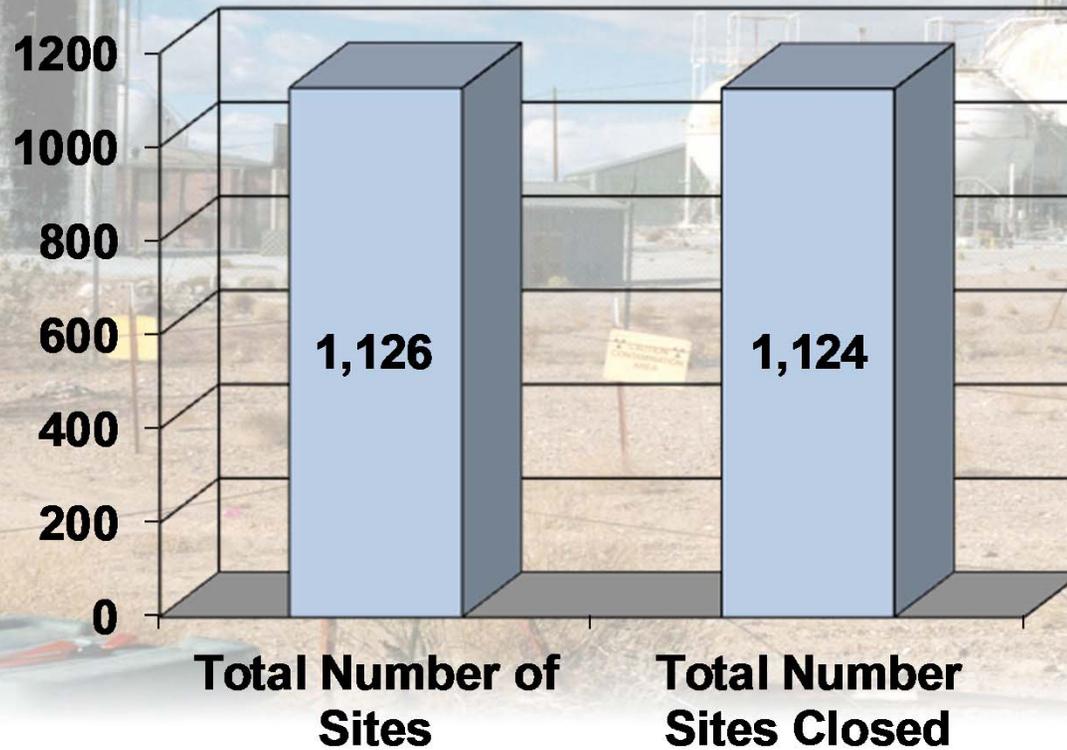
- August 2006 - This Letter Agreement added the DOE Office of Legacy Management as a signatory to the Agreement and transferred the responsibility for Central Nevada Test Area and Project Shoal Area to Legacy Management.
- March 2010 - The last “Letter Agreement to Modify” the Agreement was signed by all parties. This Letter Agreement incorporated changes to Appendix VI, Corrective Action Strategy, to include updates to the UGTA strategy; incorporated changes to the frequency of the FFACO meetings from semi-annual to annual; and clarified the language regarding NDEP’s maintenance of records.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

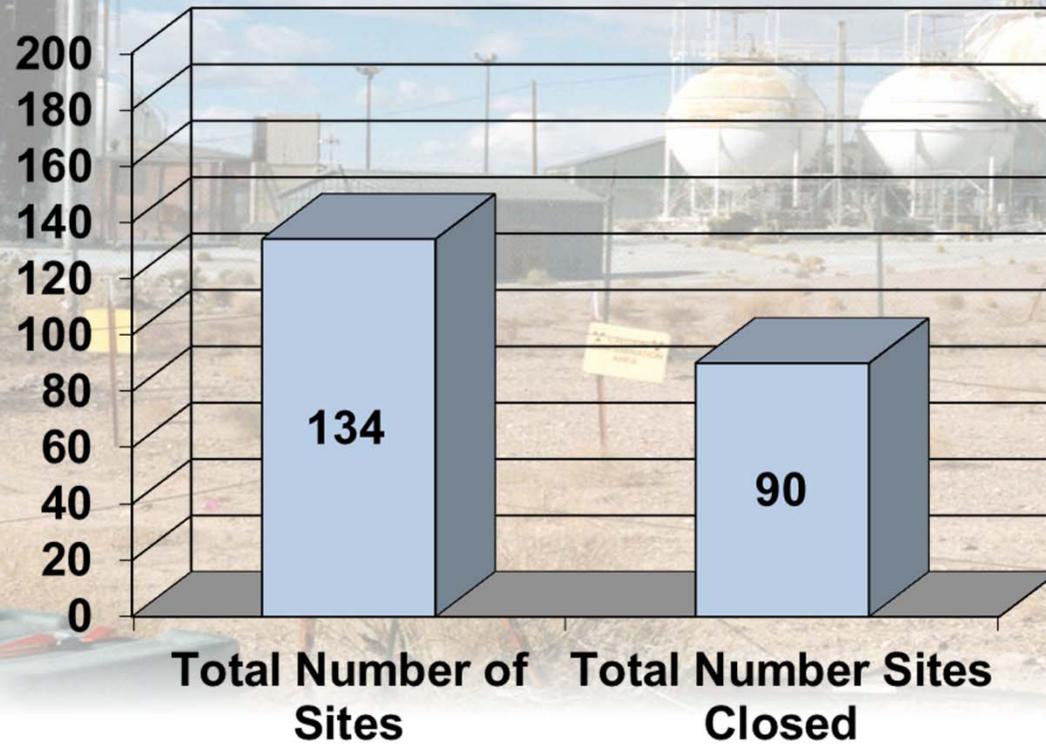
FFACO Statistics Industrial Sites Cleanup



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

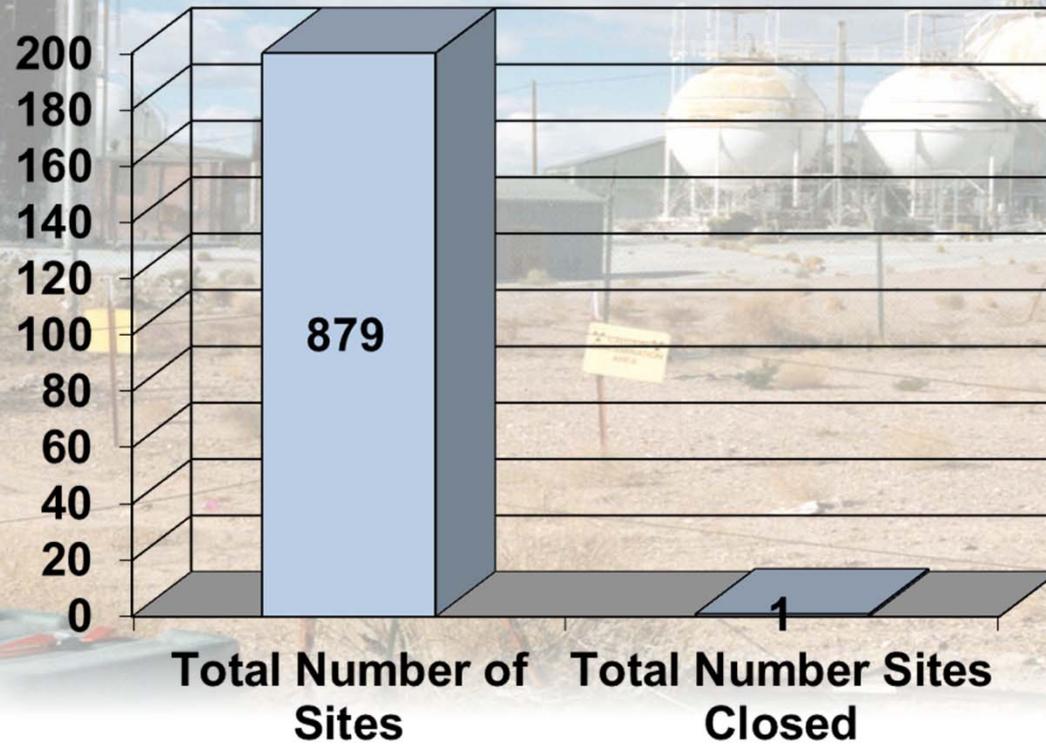
FFACO Statistics Soils Site Cleanup



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Statistics UGTA Sites Cleanup



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Statistics – Defense Threat Reduction Agency

- No ongoing investigations
- All sites have been closed
- DOE has assumed responsibility for ongoing monitoring activities
- Defense Threat Reduction Agency has begun pursuing agreement on partial (?) release from the agreement



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Statistics – Nevada Offsites

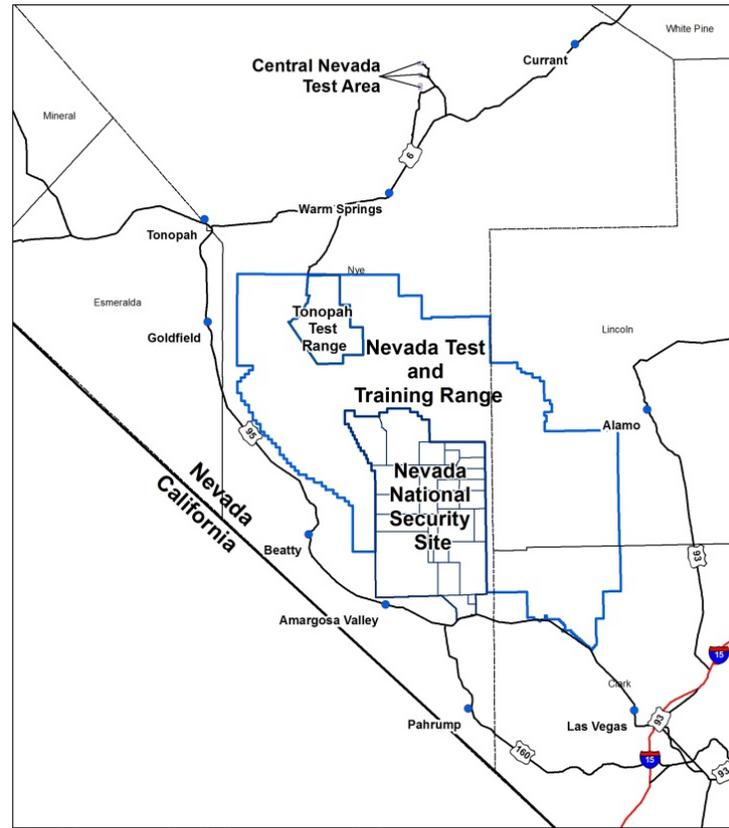
- Office of Legacy Management work is not within the scope of the NSSAB as funding is not provided by EM
 - Central Nevada Test Area
 - Project Shoal Area



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Central Nevada Test Area



H:\GIS_WORK\WSSAB_Offsite Maps\WSSAB Offsite maps.mxd - 5/14/2014



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Central Nevada Test Area - Subsurface

- DOE used this site for one subsurface nuclear test, Project Faultless, detonated on January 19, 1968
- Test to determine suitability of area for additional testing
- Test was conducted ~ 3,199' below ground surface (bgs)
- Groundwater beneath site ~ 500' bgs
- Groundwater most likely medium for contamination – but depth of contamination is > 3,200 feet – and remoteness of site, exposure to humans unlikely



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Central Nevada Test Area - Surface

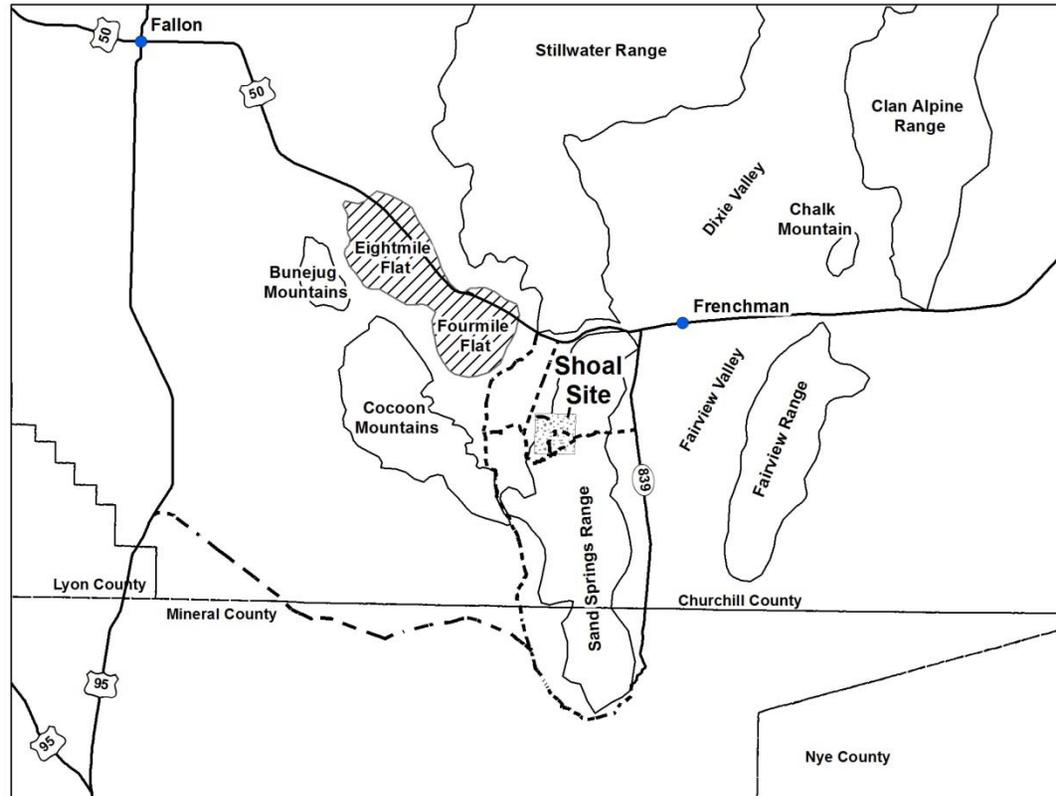
- Surface sites closed using a variety of methods
- Surface cleanup completed in 2001
- DOE currently monitors long-term performance of surface cleanup biannually to ensure use restrictions remain in force and site integrity is maintained to protect public, health, and the environment.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Project Shoal Area

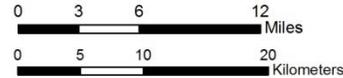


H:\GIS_WORK\NSSAB_Offsite Maps\NSSAB Offsite maps_2.mxd - 5/15/2014



Explanation

-  Shoal Site
-  Improved Road
-  County Line
-  Unimproved Road



Source: N-I GIS, 2014

Coordinate System: NAD 1927 UTM Zone 11N, Meter



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Project Shoal Area - Subsurface

- October 26, 1963 in granitic rock
- Part of the Vela Uniform program
- Designed to investigate behavior and characteristics of seismic signals generated by nuclear detonation in a granite rock formation & differentiate them from seismic signals generated by naturally occurring earthquakes
- The test was conducted ~ 1,211' bgs
- Groundwater beneath site ranges from ~ 970 – 1,090' bgs



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Project Shoal Area - Surface

- Surface contamination resulted from drilling activities:
 - Mudpit
 - Muckpile
 - Housekeeping Site
- Surface restoration completed in 1998
- NDEP approved Closure Report in February 1998 stating no post-closure monitoring required and no land use restrictions apply for the surface CAU



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Subsurface of Central Nevada Test Area and Project Shoal Area

- A groundwater flow and transport model was developed to estimate a contaminant boundary around the detonation at each of the two sites
- Contaminant boundary represents maximum extent that groundwater with test-related radionuclides exceeding Safe Drinking Water Maximum Contamination Levels is estimated to migrate in 1,000 years
- Monitoring wells installed for validation of the model and to monitor groundwater



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Subsurface of Central Nevada Test Area and Project Shoal Area

(continued)

- Neither of the two models validated. A new corrective action strategy has been developed for Central Nevada Test Area between Office of Legacy Management and NDEP. Additional monitoring wells were added. Currently collecting and analyzing groundwater data.
- A new site conceptual is currently being developed for the Project Shoal Area site. Three new wells will be drilled in summer/fall 2014.
- Restrictions exist for excavation, drilling and removal of material for subsurface



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Subsurface of Central Nevada Test Area and Project Shoal Area

(continued)

- U.S. Environmental Protection Agency conducted a Long-Term Hydrologic Monitoring Program at and near both sites from 1972 through 1997
- Central Nevada Test Area: five on-site sampling locations (wells) and eight off-site sampling locations (six wells and two springs)
- Project Shoal Area: Eleven on-site monitor wells and six off-site sampling locations
- No off-site (outside the land withdrawal area) contamination detected at either site
- Subsurface at both sites will require long-term surveillance and monitoring



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

How the FFACO Regulates the Work We Do Today

- All sites identified in the initial inventory were incorporated into the FFACO in 1996 and overlooked sites can be added
 - Number of original sites ~2577 (1945 EM)
 - Number of current sites 2983 (2139 EM)
- Addition of sites into Appendix II (not yet started) do not require NDEP approval; however, to move a site to Appendix III (ongoing), requires approval by NDEP and the setting of the initial milestone
- Any CAS that is found to either 'not exist' or is duplicative of an already existing CAS, must be approved by NDEP for movement to CAU 4000: Archived – No Further Action Sites or CAU 5000: Archived Corrective Action Sites In Appendix IV: Closed Corrective Action Units



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

How the FFACO Regulates the Work We Do Today

(continued)

- NDEP is an active participant throughout the investigation/closure process for all sites and has oversight of ongoing long-term monitoring activities for sites where contamination was closed in place
- NDEP is an active partner in the corrective action strategy updates including the recent 2011 revisions to the strategy
- NDEP participates in the preemptive review process and the Peer Review Process for UGTA CAUs



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

How the FFACO Regulates the Work We Do Today

(continued)

- All documents written for the cleanup of sites on the Nevada National Security Site, Tonopah Test Range, Nevada Test and Training Range, Central Nevada Test Area, and Project Shoal Area are produced using FFACO Outlines that have been agreed to and approved by NDEP
- Draft documents are provided to NDEP for review and comment before a final document is sent for approval. Comments received from NDEP are incorporated into final documents, which improves the quality of the final document for NDEP approval.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Database

- DOE has developed a comprehensive database to collect information on all FFACO related documentation, which includes a listing of all CAUs and CASs with pertinent information, which includes information such as:
 - CAU and CAS numbers and names
 - Number of CASs within the CAU
 - Milestones – showing due dates and also a link to the document that was produced for each milestone
 - Use restrictions, if any (for CAUs in Appendix IV)
 - All correspondence between DOE and NDEP



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

FFACO Database

(continued)

- Database considered the official Administrative Record for Federal FFACO
- Following slides show an example of information that is maintained for each CAU



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

EMIS | Regulatory | FFACO | CAU Information - Windows Internet Explorer provided by EITS
 https://empcs.nv.doe.gov/FFACO/CAU_Info.aspx

File Edit View Favorites Tools Help

EMIS | Regulatory | FFACO | CAU Information

ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEM (EMIS)
 U.S. Department of Energy, Nevada Site Office

Carol Dinaman
 Nevada Field Office [Change Organization](#)

[Change Management](#)
[New](#) [Select](#)

FFACO Modifications, Policies and Guidance | Project Information | NDEP Letter Wizard | Letter Templates | Correspondence | **CAU Information** | CAS Information | Modifications | Upcoming Milestones | Meetings and Emails | Reports | Histories | Dictionaries

Home - Admin: CAU Information

Area 9 Yucca Flat Atmospheric Test Sites (CAU 570)

General Information

CAU ID:	570
Description:	Area 9 Yucca Flat Atmospheric Test Sites
WBS Number:	1.4.1.1.23
WBS Title:	AREA 9 YUCCA FLAT ATMOSPHERIC TEST SITES (CAU 570) - (CLOSED)
Owner:	Soils - ER
Source Group:	N/A
FFACO Appendix:	4
Use Restriction:	Yes

Planning Information

Closure Process:	Complex Process
Part A?	No
Post-Closure Monitoring?	Yes
Land Status:	This CAU has both an Administrative Use Restriction and an FFACO Use Restriction.

Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Milestone Information

Milestone Title	Deadline Date	Submit Date	NOC Date	Approved Date
CAIP to State DOE/NV-1483	09/21/2012	08/21/2012	09/11/2012	09/11/2012
CADD/CR to State DOE/NV-1512	12/16/2013	11/25/2013	12/30/2013	12/30/2013

Number of Milestones: 2

What should be displayed?
 Specify a CAU (blank for all):
 570 [Refresh](#)

Select which types of information to display:

- ALL
- General Information
- Planning Information
- Use Restrictions
- Milestones
- Corrective Action Sites
- Modifications
- Correspondence

Trusted sites | Protected Mode: Off

Primavera P6 | VMware Player | FV08 WORKPLANS | NNSAFullIP... PRESENTATI... NISO/PG/GO... Contractor | FFACO | Transfer Count.xls
 as of April 2... LOADING... Control &... Project Con... NUMBERS...

3:16 PM 5/8/2014



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov
 ID 755 - 5/15/14 - Page 41
 Log No. 2014-114

EMIS | Regulatory | FFACO | CAU Information - Windows Internet Explorer provided by EITS

https://empcs.nv.doe.gov/FFACO/CAU_Info.aspx

- Planning Information
- Use Restrictions
- Milestones
- Corrective Action Sites
- Modifications
- Correspondence

CAS	Description	Closure Strategy	General Location	Functional Category	Location	Area	Use Restriction	PCM
02-23-07	Atmospheric Test Site - Tesla	Clean Closure	Orange Road at 2-04 Road	Rad Contamination Area	Nevada National Security Site (NNSS)	Area 9	View	No
09-23-10	Atmospheric Test Site T-9	Close In Place	RSM 9L21, T-9/Sugar	Rad Contamination Area	Nevada National Security Site (NNSS)	Area 9	View	Yes
09-23-11	Atmospheric Test Site S-9G	Close In Place	RSM 9G18, S-9G/Ganymede	Rad Contamination Area	Nevada National Security Site (NNSS)	Area 9	None Specified	No
09-23-14	Atmospheric Test Site - Rushmore	No Further Action	B-9A	Rad Contamination Area	Nevada National Security Site (NNSS)	Area 9	None Specified	No
09-23-15	Eagle Contamination Area	Close In Place	U9av	Rad Contamination Area	Nevada National Security Site (NNSS)	Area 9	View	Yes
09-99-01	Atmospheric Test Site B-9A	No Further Action	B-9A	Rad Contamination Area	Nevada National Security Site (NNSS)	Area 9	View	No

Total number of CASs within this CAU: 6

CAU	CAS	Mod Request Date	Initiator	Proposed Modification	Approval Level	A&E Contractor Review Date	M&O Contractor Review Date	NNSA/DTRA Approval Date	NNSA/DTRA to NDEP Date	NDEP Response Date	Status
570		07/30/2013	NFO	Extend deadline by 77 days, from September 30, 2013, to December 16, 2013. Update CADD milestone to a CADD/CR and delete CAP milestone.	NDEP			07/30/2013	07/30/2013	08/01/2013	Complete
570	09-23-13	01/23/2012	NSO	Transfer CAS 09-23-13 from CAU 570 to CAU 571	NDEP	01/24/2012	01/24/2012	01/24/2012	01/25/2012	01/30/2012	Complete
570		01/31/2011	NSO	Create CAU 570: Area 9 Yucca Flat Atmospheric Test Sites	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete
105	02-23-07	01/31/2011	NSO	Transfer CASs 02-23-07, 09-23-10, 09-23-11, 09-23-13, 09-23-14, 09-23-15, 09-99-01 from CAU 105 to CAU 570	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete
105	09-23-10	01/31/2011	NSO	Transfer CASs 02-23-07, 09-23-10, 09-23-11, 09-23-13, 09-23-14, 09-23-15, 09-99-01 from CAU 105 to CAU 570	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete
105	09-23-13	01/31/2011	NSO	Transfer CASs 02-23-07, 09-23-10, 09-23-11, 09-23-13, 09-23-14, 09-23-15, 09-99-01 from CAU 105 to CAU 570	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete
105	09/23/11	01/31/2011	NSO	Transfer CASs 02-23-07, 09-23-10, 09-23-11, 09-23-13, 09-23-14, 09-23-15, 09-99-01 from CAU 105 to CAU 570.	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete
105	09-23-14	01/31/2011	NSO	Transfer CASs 02-23-07, 09-23-10, 09-23-11, 09-23-13, 09-23-14, 09-23-15, 09-99-01 from CAU 105 to CAU 570.	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete
105	09-23-15	01/31/2011	NSO	Transfer CASs 02-23-07, 09-23-10, 09-23-11, 09-23-13, 09-23-14, 09-23-15, 09-99-01 from CAU 105 to CAU 570.	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete
105	09-99-01	01/31/2011	NSO	Transfer CASs 02-23-07, 09-23-10, 09-23-11, 09-23-13, 09-23-14, 09-23-15, 09-99-01 from CAU 105 to CAU 570.	NNSA	01/31/2011	02/10/2011	02/10/2011			Complete

Total number of modifications to this CAU: 10

Trusted sites | Protected Mode: Off

3:21 PM 5/8/2014





EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

ID 755 - 5/15/14 - Page 42

Log No. 2014-114

ENVIRONMENTAL MANAGEMENT

EMIS | Regulatory | FFACO | CAU Information - Windows Internet Explorer provided by EITS

https://empcs.nv.doe.gov/FFACO/CAU_Info.aspx

File Edit View Favorites Tools Help

EMIS | Regulatory | FFA... https://empcs.nv.doe.gov...

Date	Sender	Recipient	Document Type	Subject	Link
02/05/2014	FIMS	Dinsman, Carol	Use-Restriction	Transmittal of Use Restriction Information for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites	View
01/30/2014	DOE	PRFs	FFACO Administrative	Submittal of the Annual Listing of Documents Submitted to the Public Reading Facilities for Calendar Year 2013	View
01/08/2014	OSTI	Dinsman, Carol	FFACO Administrative	Notification of Approved Document CAU 570 CADD/CR to be Posted to OSTI	View
01/06/2014	DOE	Williams, Fred	Use-Restriction	Transmittal of Corrective Action Unit (CAU) Use Restriction (UR) Information for CAU 570: Area 9 Yucca Flat Atmospheric Tests	View
12/30/2013	NDEP	Boehlecke, Rob	CADD/CR	Approval of Final Corrective Action Decision Document/Closure Report (CADD/CR) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site (NNSS), Nevada, Federal Facility Agreement and Consent Order (FFACO)	View
11/25/2013	DOE	Murphy	CADD/CR	Submittal of Final Corrective Action Decision Document/Closure Report (CADD/CR) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site (NNSS), Nevada, Revision 0, November 2013	View
11/06/2013	NDEP	Boehlecke, Rob	CADD/CR	Review of Draft Corrective Action Decision Document/ Closure Report (CADD/CR) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada, Federal Facility Agreement and Consent Order (FFACO)	View
10/02/2013	DOE	Murphy	CADD/CR	Submittal of Draft Corrective Action Decision Document/Closure Report (CADD/CR) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site (NNSS), Nevada, Revision 0, September 2013	View
08/13/2013	NDEP	Boehlecke, Rob	FFACO Administrative	Distribution of Fiscal Year (FY) 2013 + 1 Milestone Chart and Listing of Modifications to the Federal Facility Agreement and Consent Order (FFACO)	View
08/12/2013	DOE	Murphy/Fraher/Kautsky	FFACO Administrative	Distribution of Fiscal Year (FY) 2013 + 1 Milestone Chart and Listing of Modifications to the Federal Facility Agreement and Consent Order (FFACO)	View
08/01/2013	NDEP	Boehlecke, Rob	Proposed Modification	Request for Document Change and Milestone Extension for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site (NNSS), Nevada, Federal Facility Agreement and Consent Order (FFACO)	View
07/30/2013	DOE	Murphy	Proposed Modification	Request for Document Change and Milestone Extension for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites	View
04/09/2013	NDEP	Boehlecke, Rob	FFACO Administrative	Submittal of Fiscal Year (FY) 2013-2015 Planned Federal Facility Agreement and Consent Order (FFACO) Milestones and Due Dates	View
04/04/2013	DOE	Murphy	FFACO Administrative	Submittal of Fiscal Year (FY) 2013-2015 Planned Federal Facility Agreement and Consent Order (FFACO) Milestones and Due Dates	View
01/16/2013	DOE	PRFs	FFACO Administrative	Submittal of the Annual Listing of Documents Submitted to the Public Reading Facilities for Calendar Year 2012	View
09/27/2012	DOE	PRFs	CAIP	Submittal of Final Corrective Action Investigation Plan (CAIP) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site (NNSS) Nevada, Revision 0, August 2012	View
09/11/2012	NDEP	Boehlecke, Rob	CAIP	Approval of Final Corrective Action Investigation Plan (CAIP) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site, Nevada, Federal Facility Agreement and Consent Order	View
08/21/2012	DOE	Murphy	CAIP	Submittal of Final Corrective Action Investigation Plan (CAIP) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site (NNSS), Nevada, Revision 0, August 2012	View
08/08/2012	NDEP	Boehlecke, Rob	FFACO Administrative	Distribution of Fiscal Year (FY) + 1 Milestone Chart and Listing of Modifications to the Federal Facility Agreement and Consent Order (FFACO)	View
08/02/2012	DOE	Murphy/Fraher/Kautsky	FFACO Administrative	Distribution of Fiscal Year (FY) + 1 Milestone Chart and Listing of Modifications to the Federal Facility Agreement and Consent Order (FFACO)	View
07/27/2012	NDEP	Boehlecke, Rob	CAIP	Review of the Draft Corrective Action Investigation Plan (CAIP) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site, Nevada, Federal Facility Agreement and Consent Order (FFACO)	View
06/26/2012	DOE	Murphy	CAIP	Submittal of the Draft Corrective Action Investigation Plan (CAIP) for Corrective Action Unit (CAU) 570: Area 9 Yucca Flat Atmospheric Test Sites, Nevada National Security Site, Nevada, Revision 0, June 2012	View
04/30/2012	DOE	Murphy	FFACO Administrative	Corrections to Fiscal Year (FY) 2012 - 2014 Planned Federal Facility Agreement and Consent Order (FFACO) Milestones and Due Dates	View
04/16/2012	NDEP	Dinsman, Carol	FFACO Administrative	Nevada Division of Environmental Protection (NDEP) Response to Question Regarding Milestone and Due Date for Corrective Action Unit (CAU) 570	View
04/06/2012	NDEP	Boehlecke, Rob	FFACO Administrative	Submittal of Fiscal Year (FY) 2012 - 2014 Planned Federal Facility Agreement and Consent Order (FFACO) Milestones and Due Dates	View

Done Trusted sites | Protected Mode: Off 100% 3:10 PM 5/8/2014

FFACO Histories

- DOE has compiled “Histories” for a number of topics that have been discussed/negotiated/resolved through the years
 - Tonopah Test Range - U.S. Air Force Corrective Action Policies
 - Streamlined Approach For Environmental Restoration Draft Document Reviews
 - Creation of Leachfield Work Plan
 - Management of Investigation Derived Waste



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure