

## Internal Memorandum

**DATE:** September 2, 2015  
**TO:** Dave Emme, Administrator  
**FROM:** Christine Andres, Chief, Bureau of Federal Facilities *CDA*  
**SUBJECT:** Quarterly Report: April 1, 2015 to June 30, 2015

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### FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (FFACO) QUARTERLY REPORT

#### Industrial Sites Activity

As of the end of June 2015, there were 1958 Corrective Action Sites (CASs) (out of 1970 total) that have been closed, with two CASs in Corrective Action Unit (CAU) 114 and four CASs in CAU 575, all in various stages of active investigation, and six CASs in CAU 572 held for future work.

#### Soils Activity Sites

At the end of June 2015, there were 115 CASs (out of a total of 138) that have been closed, with 23 in various stages of active investigation.

During this quarter, Bureau of Federal Facilities (BFF) staff reviewed documents, participated in project evaluations, attended local and out-of-state planning meetings related to CAU closures and/or conducted site inspections for the following CAUs:

##### Document Review:

**CAU 412 – Clean Slate I Plutonium Dispersion (Tonopah Test Range (TTR))** – Staff reviewed the Final SAFER Plan after comments submitted by the BFF to the National Nuclear Security Administration/Nevada Field Office (NNSA/NFO) on the draft plan were discussed during a comment resolution meeting and were satisfactorily addressed in the final document.

##### Meetings:

Staff participated in a pre-planning meeting with NNSA/NFO personnel and their contractors related to a June meeting with the U.S. Air Force (USAF) in Falls Church, VA. The meeting covered Data Quality Objectives (DQOs) for CAU 413 (Clean Slate II) and a Corrective Action Alternatives (CAAs) Evaluation for CAU 541 (Small Boy/BFa), and related topics.

Staff traveled to Defense Health Headquarters in Falls Church, VA for a one-day meeting with USAF staff and their contractor on DQOs for CAU 413 (Clean Slate II), a CAA evaluation for

CAU 541 (Small Boy/BFa), TLD placement, inhalation does approach, beryllium detection at Clean Slate I and related issues.

*Document Preparation:*

**Request for Proposal** – During this quarter, the procurement for RFP-1401 (Risk Management of Radiological-Contaminated Soils) was successfully completed. Stoller Newport News Nuclear, Inc. (SN3) was selected to provide the services. In accordance with state procurement regulations, staff completed a proposal score sheet on the vendor's proposal and conducted a teleconference with the vendor to clarify potential conflict of interest issues. As a result of the teleconference, the vendor issued a notice that corporate policies governing potential conflict of interest were in place and would apply to this procurement. Staff prepared a letter informing the vendor of NDEP's Intent to Award the contract. Staff then participated in preparation and review of the draft contract. The contract was approved and awarded by the Nevada's Board of Examiners in mid-June 2015.

**Underground Testing Area (UGTA) Activity**

There are five UGTA CAUs, all of which are in various stages of active investigation or model evaluation.

During this quarter, BFF staff participated in the process of document review, project evaluation, meetings and/or site visits for all five of the CAUs:

*Document Reviews and Letters:*

**CAU 97 – Yucca Flat** – As a member of the Yucca Flat pre-emptive review committee, BFF staff reviewed and commented on the Yucca Flat modeling team's suggested approaches to addressing the External Peer Review comments through several iterations. Staff met with NFO personnel and their contractors to discuss a path forward for the External Peer Review Comments.

Staff also reviewed, commented on, and subsequently approved, fluid management strategies for wells UE-7nS and WW-3. Background reading was done in preparation for the selection of three new well locations. A Record of Technical Change (ROTC) was submitted and approved for the Final Phase I Flow and Transport Model Document to correct some drawings.

**CAU 98 – Frenchman Flat** – BFF staff reviewed, pre-emptively, the draft closure report for this CAU and participated in negotiation of final Use Restrictions and Regulatory Boundaries. These boundaries were approved during this quarter.

**CAU 99 – Rainier Mesa / Shoshone Mountain** – BFF staff reviewed a number of documents in preparation for a pre-emptive review committee review of the additional analysis and evaluation work plan.

**CAU 101/102 – Pahute Mesa** – Results of tritium screening for Well ER-20-4 and Well ER-20-12 pad and road construction plans were reviewed. A sampling recommendation to switch purge water discharge from sump 2 to sump 1 was also approved.

**Quality Assurance** – BFF staff reviewed the UGTA Quality Assurance Plan and provided comments. A Final Plan was then received.

**Background Reading** – BFF staff member continued reviewing various approaches to modeling fractures and faults that might be used in modeling at Pahute Mesa.

Meetings:

**CAU 97 – Yucca Flat** – BFF staff attended a Yucca Flat classified briefing by DOE contractors, as well as, presentations on the siting of new wells in this CAU and the closeout of the External Peer Review.

**CAU 99 – Rainier Mesa / Shoshone Mountain** – Staff met to strategize on the current issues of this CAU.

**CAU 101/102 – Pahute Mesa** – BFF staff attended the Well ER-20-12 Site Selection presentation with DOE staff and contractors.

Conference Calls:

**CAU 97 – Yucca Flat** – BFF staff participated in one conference call to finalize preemptive review committee summary comments to the modeling team.

Site Visits:

**CAU 97 – Yucca Flat** – A site visit to observe sampling of Well HTH-2 was made this quarter.

### **Nevada Off-Sites**

There are four Nevada Off-Sites CAUs, two Surface CAUs (CAU 416 and 417) and two Subsurface CAUs (CAU 443 and 447). CAU 416 has been clean-closed. CAU 417 is in Post-Closure Monitoring. CAUs 443 and 447 are in the Corrective Action Decision Document/ Corrective Action Plan Stage and are undergoing further site evaluation.

During this quarter, BFF staff participated in the process of document review, project evaluation and/or participated in conference calls for the three active CAUs:

Document Review:

**CAU 417 – Central Nevada Test Area, Surface** – A ROTC was approved for the Final Closure Report.

**CAU 443 – Central Nevada Test Area, Subsurface** – BFF staff reviewed, commented on, and approved the Draft Closure outline for the site and the letter(s) requesting moving to closure. A letter report on the MV-6 well pad restoration was also reviewed, as well as, the Final Annual Groundwater Report.

**CAU 447 – Project Shoal Area** – Staff reviewed the Sampling Plan and agreed with the approach presented.

Conference Calls:

BFF staff participated in two conference calls between the Department of Energy/Office of Legacy Management (DOE/OLM) project manager and contractors in regards to the status of the Nevada Off-Sites projects.

**General:**

Fiscal Year 2015-2017 Planned FFACO Milestones and Due Dates were submitted by the NNSA/NFO. The dates were reviewed, comments generated and the NFO submitted a final letter which was approved by the bureau.

**Miscellaneous**

Meetings:

The chief attended the Division Staff Meeting in Carson City on April 20, May 4 and June 1. The meetings on April 6, May 18 and June 15 were participated in via conference call. While in Carson City for the meetings, various other bureau business was conducted.

The BFF supervisor attended Nevada Site-Specific Advisory Board meetings in May.

The chief attended the Spring National Governor's Association Federal Facilities Task Force meeting held in Pasco, Washington. In addition to the meeting, a tour of the Hanford Site was given.

One bureau staff meeting was held this quarter to discuss current bureau program activities and the status of RFP vendor selection and the contract process moving forward.

The chief and all Las Vegas Office supervisors met this quarter to discuss office operations.

The Las Vegas Office staff met with the Administrator and Deputy Administrator for one day to discuss general agency topics and issues.

Training:

Three Las Vegas office staff meetings were held this quarter to ensure all office personnel received mandatory annual safety training.

Staff completed mandatory State of Nevada NEATS II Security training.

Staff also completed their annual Security Refresher Briefing and Counterintelligence Refresher Briefing for 2015.

Staff completed required 8-hour HAZWOPER training.

BFF staff continued cross-training activities for other BFF projects.

## **Agreement in Principle (AIP) Functional Areas Summary**

### **1. On-Site Discharges**

#### **Water Pollution Control**

##### *Document Review:*

**Water Pollution Control Permit GNEV 93001** – Bureau of Federal Facilities (BFF) staff reviewed the January 1 through March 31, 2015 Quarterly Discharge Monitoring Report (QMR). BFF staff noted a continuing exceedance of the permitted inflow volume limit to the DAF lagoon. National Nuclear Security Administration/Nevada Field Office (NNSA/NFO) and BFF personnel worked together to identify all of the influencing factors to cause the excess flow and a path forward. BFF staff did not view this as an egregious problem as the lagoon is functioning properly in spite of the excess flow. Noting these conditions, BFF issued a letter on the QMR stating all other permit conditions were being met. NDEP staff followed up with a review of a year's worth of QMRs documenting the high volume discharge into the DAF lagoon and requested the NNSA/NFO present, in writing, a reason and supporting data why the high inflow rate was not detrimental to the lagoon system. This issue will be resolved next quarter.

NDEP published in the Las Vegas Review Journal a notice to the public of the intent to renew Water Pollution Control Permit GNEV 93001. The period open to the public for review was from July 1 to July 30, 2015. The NDEP notified the NFO prior to the publication as per agreements between the two entities.

**Water Pollution Control Permit NEV 96021** – BFF staff reviewed the quarterly E-tunnel Waste Water Disposal System Quarterly Discharge Monitoring Report for the Permit and sent a letter stating it was compliant.

##### *Meetings:*

Staff participated in the quarterly Water Meeting held on June 11, 2015 with NFO personnel and their contractors.

##### *Site Visits:*

There was one site visit for this quarter. NDEP staff observed the sampling of the ER 12-1 for permit compliance.

#### **Spills**

1. NDEP approved a final closure for the spill described in Spill Report No: 150219-03.
2. NFO reported a spill to the NDEP of Oxidizer D001. Actions and documentation are pending due to the nature of the materials involved.

## **2. Ground Water Monitoring**

There was no activity in this category during the quarter.

## **3. Air Quality Monitoring**

There was no activity in this category during the quarter.

## **4. Low Level and Mixed Low Level Waste Oversight**

### *Conference Calls:*

Staff participated in weekly WARP meetings in person and/or via teleconference. Review panel meetings were held on April 1, 8, 15, 22, 29; May 6, 13, 20, 27, and June 3, 10, 17, and 24, 2015. Review Panel members discussed waste profile comments and waste-specific compliance issues for generator-submitted low-level and mixed low-level radioactive waste profiles as they pertain to NNSWAC, Rev. 10. As applicable, BFF staff reviewed and provided comments on low-level radioactive waste and mixed waste profiles (for compliance with NNSWAC, Rev. 10) and all comment responses submitted by currently-approved LLW and MLLW generators.

### *Meetings:*

The chief and supervisor met with personnel from the NFO along with their contractors and the Waste Acceptance Review Panel (WARP) lead to discuss specifics of the current profile form and several current waste streams.

### *Site Visits/Radioactive Waste Generator Facility Evaluations:*

Three (3) monthly site visits were made to the Nevada National Security Site (NNSS) Area 5 Radioactive Waste Management Site (RWMS) to observe radioactive waste shipment receipt and disposal activities this quarter. Shipments received and disposed on these three (3) days originated from four (4) different generators and were comprised of waste streams approved under six (6) different profiles. There were multiple shipments under more than one profile over the course of the three (3) days.

Staff participated in Radioactive Waste Generator Surveillances conducted at: Lawrence Livermore National Laboratory in Livermore, California; National Securities Technologies in Mercury, Nevada; Portsmouth Gaseous Diffusion Plant in Portsmouth, Ohio; General Atomics in San Diego, CA; and, Duratek/Energy Solutions in Oak Ridge, TN. Prior to each of these surveillances, staff participated in a meeting with NFO and their contractors.

Document Preparation:

**Request for Proposal** – During this quarter, the procurement for RFP-1402 (Risk Management of Radiological-Contaminated Waste Materials) was successfully completed. Stoller Newport News Nuclear, Inc. (SN3) was selected to provide the services. In accordance with state procurement regulations, staff completed a proposal score sheet on the vendor's proposal. Staff also prepared a letter informing the vendor of NDEP's Intent to Award the contract. Staff then participated in preparation and review of the draft contract. The contract was approved and awarded by the Nevada's Board of Examiners in mid-June 2015.

**5. Waste Management**

**RCRA Part B Permit Program Activities and Various Solid Waste Landfill Activities:**

Document Review:

The Bureau received and began reviewing the NV HW0101 permit renewal application. Staff also reviewed the Post-Closure Inspection Letter Report for CAUs on the NNSS, the Area 5 groundwater report and the volume report for the Radioactive Waste Management Site, and the asbestos first quarter acceptance report for Area 5.

The Tonopah Test Range (TTR) Post-Closure Monitoring (PCM) Report was reviewed.

Meetings:

Discussions were held with DOE personnel throughout the quarter on the mixed low-level waste cell permit renewal; the need for a new mixed low-level waste cell; asbestos disposal; acceptance of classified matter/waste; and, misclassification of waste received from an off-site generator.

NFO continues to implement recommendations in an attempt to vegetate the cover on CAU 111. Meetings will be held between NFO and BFF to decide on future actions at the site before October 2015.

Site Inspections:

**Annual Compliance Evaluation Inspection (CEI)** – Staff prepared for and conducted the annual RCRA CEI of permitted hazardous waste facilities on the NNSS. All facilities were in compliance with permit conditions and applicable regulations.

**Quarterly Post-Closure Monitoring (PCM) Inspections** – Staff prepared for and conducted quarterly post-closure monitoring inspections at the NNSS and the Nevada Test and Training Range (NTTR).

Document Preparation:

**Annual Compliance Evaluation Inspection (CEI) Report** – Staff completed and submitted the Annual RCRA CEI Report to the EPA on June 3, 2015.

## **6. Major Program Proposals**

A new process for approving Asbestiform transportation to the NNSS Area 5 is in the planning stages.

## **7. Historic Preservation**

Funding has been provided to the SHPO for historic reviews at DOE and/or the NNSS during the year.

## **8. Environmental Monitoring Program and Report**

There was no activity in this category during the quarter.

## **9. Sampling**

No sampling activities were conducted by the Bureau during the quarter.

## **10. Safe Drinking Water**

### *Document Review:*

The BFF had no Safe Drinking Water documents to review this quarter.

### *Meetings:*

Staff participated in the quarterly Water Meeting held on June 11, 2015 with NFO personnel and their contractors.

### *Site Visits:*

There was one site visit for this quarter.

## **Fiscal Analysis:**

### *Estimate of personnel resources used (FTE or hours)*

The Bureau of Federal Facilities is made up of a Bureau Chief, two supervisors, seven technical staff and an administrative assistant. Currently one supervisor and two sanitary engineer positions are vacant. The AIP grant funds activities for each of these individuals. For the quarter, that represents approximately 4.5 FTE based on a review of grant related activities.

### *Total expenditures for each task area*

A total of \$133,341.91 was spent last quarter for AIP work. This is the most current figure available at this time and includes personnel, operating, information services, DOD and DOE oversight and purchasing costs.

*Comparison of estimate to budgeted expenses*

Expenses this quarter were within the legislatively-approved spending limits.

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