

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION IV 1600 EAST LAMAR BOULEVARD ARLINGTON, TEXAS 76011-4511

July 12, 2018

Aaron Linard, Manager Environmental, Safety and Health Uranerz Energy Corporation 1701 East E Street, Suite 100 Casper, WY 82601

SUBJECT: NRC INSPECTION REPORT 040-09067/2018-001

Dear Mr. Linard:

This letter refers to the routine U.S. Nuclear Regulatory Commission's (NRC) inspection conducted onsite from April 17-19, 2018, at your Nichols Ranch In-Situ Recovery (ISR) Project in Campbell and Johnson Counties, Wyoming. The purpose of the inspection was to determine whether uranium recovery activities were being conducted safely and in conformance with the conditions of your license. A preliminary exit meeting was held with you and your staff on April 19, 2018. After discussion with NRC management and continued review of the information associated with changes to wellfield bleed, a final telephonic exit meeting was conducted on June 20, 2018. The enclosed inspection report documents the results of the inspection.

The NRC inspection examined activities conducted under your license as they relate to public health and safety, the common defense and security, and to confirm compliance with the Commission's rules and regulations and the conditions of your license. Within these areas, the inspection consisted of selected examination of procedures and representative records, observations of activities, tours of the uranium recovery facilities, environmental monitoring locations, conduct of independent radiation measurements and interviews with personnel. No violations were identified and a response to this inspection report is not required.

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter, its enclosure, and your response if you choose to provide one, will be made available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html. To the extent possible, your response should not include any personal privacy or proprietary, information so that it can be made available to the Public without redaction.

Should you have any questions concerning this matter, please contact Ms. Marti Poston-Brown, Health Physicist, at (817) 200-1181 or the undersigned at (817) 200-1151.

Sincerely,

/RA/

Janine F. Katanic, PhD, CHP, Chief Fuel Cycle and Decommissioning Branch Division of Nuclear Materials Safety

Docket: 040-09067 License: SUA-1597

Enclosure:

NRC Inspection Report 040-09067/2018-001 w/Attachment: Supplemental Information

cc w/encl:

Guy Cameron, Director, WY Homeland Security Ryan Schierman, Natural Resources Program Manager, WDEQ Robin Jones, Land Quality District 1 Supervisor, WDEQ Mark Rogaczewski, Land Quality District 3 Supervisor, WDEQ

U.S. NUCLEAR REGULATORY COMMISSION REGION IV

Docket:	040-09067
License:	SUA-1597
Report:	040-09067/2018-001
Licensee:	Uranerz Energy Corporation
Locations Inspected:	Nichols Ranch Johnson and Campbell Counties, Wyoming
Inspection Dates:	April 17-19, 2018
Inspectors:	Bernadette Baca, Health Physicist Fuel Cycle and Decommissioning Branch Division of Nuclear Materials Safety
	Martha Poston-Brown, Health Physicist Fuel Cycle and Decommissioning Branch Division of Nuclear Materials Safety
Approved by:	Janine F. Katanic, PhD, CHP, Chief Fuel Cycle and Decommissioning Branch Division of Nuclear Materials Safety
Attachment:	Supplemental Inspection Information

EXECUTIVE SUMMARY

Uranerz Energy Corporation., In-Situ Recovery Facility NRC Inspection Report 040-09067/2018-001

The U.S. Nuclear Regulatory Commission (NRC) performed a routine health and safety onsite inspection from April 17-19, 2018, with continued in office review until June 20, 2018, which included observations of site activities, independent radiation surveys, review of records, and interviews with site personnel. In summary, the licensee was conducting operations in accordance with regulatory and license requirements described below.

Management Control and Organization

The organizational structure and staffing levels maintained by the licensee during the inspection period met the requirements specified in the license and were sufficient for the work in progress. The licensee's safety and environmental reviews were performed in accordance with the license requirements. The licensee conducted audits and inspections as required by regulatory requirements and the license. The licensee was maintaining financial assurance in accordance with license with license requirements. (Section 1.2)

In-Situ Leach Facilities

The licensee conducted in-situ recovery and operations in accordance with the license and regulatory requirements. Radiological controls including signs and postings were implemented in accordance with license and regulatory requirements. (Section 2.2)

Radiation Protection

The licensee implemented a radiation protection program meeting the requirements of Title 10 *Code of Federal Regulations* (CFR) Part 20 and the license. Occupational doses were less than established regulatory limits. (Section 3.2).

Effluent Control and Environmental Protection and Maintaining Effluents from Materials Facilities As Low As Reasonably Achievable

The licensee conducted environmental monitoring in accordance with license requirements. The licensee reported the results in semi-annual reports to the NRC. The annual dose to members of the public remained below regulatory limits. The licensee was documenting spills and conducting excursion sampling as specified in the license. (Section 4.2)

Inspection of Transportation Activities and Radioactive Waste Processing, Handling and Storage

The shipment of yellowcake slurry and the management, storage, transportation, and disposal 11.e(2) wastes were conducted in accordance with the license and regulatory requirements. (Section 5.2)

Emergency Preparedness and Fire Protection

Emergency Preparedness and Fire Protection programs are in place and maintained in accordance with license and regulatory requirements. (Section 6.2)

Report Details

Site Status

At the time of the inspection, Uranerz Energy Corporation was extracting uranium using the in-situ recovery process. Uranium processing and drying operations were in progress at the Nichols Ranch Central Processing Plant (CPP).

The Hank and Jane Dough Satellites were not in operation at the time of the inspection. Due to current economic conditions, the licensee indicated new mine unit production and development are not a top priority.

1 Management Organization and Control (Inspection Procedure 88005)

1.1 Inspection Scope

Ensure the licensee has established an organization to administer the technical programs and to perform internal reviews, self-assessments and audits.

1.2 Observations and Findings

a. Organizational Structure

The inspectors reviewed the licensee's organization structure for the Nichols Ranch facility. At the time of the inspection, the Nichols Ranch facility operation had approximately 25 full-time employees, a decrease of only 1 employee since the last inspection. Reductions in staff also included the release of two long term contractors and two contract drillers since the March 2017 inspection.

Since the previous inspection, the organizational structure has changed. The organizational changes were reviewed under the Safety and Environmental Review Panel (SERP) process and the current organizational chart reflects the movement of individuals from one job position to another and a redistribution of responsibilities to address attrition. The staffing changes included the loss of the Laboratory Supervisor and the Operations Manager. The laboratory staff now reports to the Environmental, Safety and Health (ESH) Manager/Radiation Safety Officer (RSO) and the Operations Supervisor, Wellfield Operations Supervisor and Constructions Project Manager now report directly to the Mine Manager/Director of Wyoming Operations. The inspectors found the movement of duties and responsibilities associated with the reduction in force did not have a negative impact on essential functions, such as operations and radiation protection.

The ESH Manager/RSO is supported by a Radiation Safety Technician (RST) and an environmental sampling technician. The radiation safety duties are shared between the RST and the RSO with assistance provided as needed by RSO designees and the sampling technician. The inspectors determined the licensee had sufficient staff to implement the radiation protection program, groundwater monitoring and environmental programs at current operating levels.

b. Safety and Environmental Review Panel (SERP)

License Condition 9.4 of the performance based license requires, in part, the licensee establish a SERP process to evaluate if program changes, tests or experiments require an NRC license amendment prior to implementation. The inspectors reviewed the following SERP evaluations completed since the March 2017 inspection:

SERP-1-2017	Installation of three $\ensuremath{^{1\!\!\!/}}$ inch sampling lines to the CPP (point source ventilation lines)
SERP-4-2017	Updates to Organizational Chart and responsibilities of officers
SERP-5-2017	Review of David Turk Qualifications as RSO designee
SERP-6-2017	Testing of HCL Injection to improve well flow
SERP-7-2017	Monitor Well Mechanical Integrity Testing
SERP-8-2017	Review of Pauline Bowman Qualifications as RST
SERP-1-2018	Update to Technical Report and WYDEQ LQD Mine Plan for compliance with Regulatory Guide 4.14
SERP-3-2018	Updates to Site Facility Diagram 3.1 (add corrosion inhibitor and anti scalent tanks)
SERP-5-2018	Changes to Section 1.0 of Technical Report to incorporate Jane Dough information
SERP-6-2018	Section 3 License Application Revisions

In accordance with License Condition 9.4, the licensee is expected to submit a description of each change, including a summary of each safety and environmental evaluation to the NRC in a future annual report. The inspectors concluded the licensee correctly implemented the performance-based license, and the evaluations did not require prior NRC approval.

During the inspection, the licensee was conducting meetings to process SERP-6-2018, "Section 3 License Application Revisions". The majority of the changes associated with this SERP were administrative in nature, such as changes to job titles, update maps to reflect plant configuration changes and correct spelling and grammar issues. The licensee submitted the final version of this SERP to the NRC inspectors for review on May 1, 2018 following the onsite inspection. Due to proposed changes in the maintenance of wellfield bleed, the document was forwarded to NRC-HQ for review. On June 12, 2018, the project manager notified the inspectors the proposed changes associated with removal of the operating range and average for the wellfield bleed, quantities used to ensure an inward hydraulic gradient, was not appropriate for a SERP. Specifically, the NRC-HQ reviewers determined that under License Condition 9.4B, a license amendment was necessary to remove the wellfield bleed ranges and average from the application. The wellfield bleed operating ranges and average were used to perform a wellfield analysis in the safety evaluation report and would require a different analysis if removed. On June 14, 2018, the inspectors confirmed with the site, the wellfield bleed was still operating within the specified ranges and average. Options associated with this SERP were discussed with the licensee. The licensee resubmitted the SERP reinstating the range and average numbers for wellfield bleed on June 18, 2018. The NRC reviewed the revised SERP and determined it to be acceptable. A final telephonic exit meeting was conducted with the licensee on June 20, 2018, after the revised SERP review was completed.

c. Audits and Inspections

The inspectors reviewed the audits and inspections generated by the licensee since the previous inspection, in accordance with the requirements of License Condition 9.7 and Regulatory Guide 8.31, "Information Relevant to Ensuring that Occupational Radiation Exposure at Uranium Recovery Facilities will be As Low as is Reasonably Achievable (ALARA)." The RSO, RSO-designees along with trained and qualified operators performed and documented the daily walk-throughs. Site procedures allow trained and qualified operators to perform the daily walk-throughs on days when radiation safety staff were not available, such as weekends and holidays. The RSO or an RSO designee reviews the walk-through documentation upon return to the facility. A spot check of the daily walk-throughs conducted since the previous inspection revealed no examples of the RSO or an RSO designee failing to perform the required review. If delays in review occurred, the reason for the delay was documented on the form (illness, document misplaced, etc.). The weekly and monthly reviews by the RSO/RSO-designee were conducted at the required frequencies.

The licensee conducted an annual radiation safety audit. The audits for the previous year are usually performed in June with the report issued in August. The inspectors reviewed the 2016 annual radiation protection program audit. The audit was performed by the Quality Assurance Manager and the RSO of the Energy Fuels White Mesa Mill. The RSO for Nichols Ranch assisted the audit team but was not a member of the audit team. The audit team had no significant findings but did make several suggestions for improvement. The inspectors determined the licensee had implemented several of the suggestions for improvement.

d. Additional Protocols

The inspectors verified the licensee had provided the NRC with appropriate 2017 documentation to comply with Title 10 *Code of Federal Regulations* (CFR) Part 75.11, which related to the Agreement between the United States of America and the International Atomic Energy Agency for the Application of Safeguards in the US. The licensee provided four of the necessary forms which provide contact information, the capacity of yellowcake production, the actual annual yellowcake production, and the quantity of yellowcake on hand. The inspectors concluded the reports were accurate, complete, and consistent for the calendar year 2017.

e. Financial Assurance

In accordance with License Condition 9.5, the licensee submitted its most recent annual financial assurance updates for the Uranerz Energy Corporation on December 18, 2017 (ADAMS Accession Number ML18040A731). The NRC completed its review on April 19, 2018 and accepted the calculation (ADAMS Accession Number ML18099A347).

1.3 <u>Conclusions</u>

The organizational structure and staffing levels maintained by the licensee during the inspection period met the requirements specified in the license and were sufficient for the work in progress. The licensee's safety and environmental reviews were performed in accordance with the license requirements. The licensee conducted audits and inspections as required by regulatory requirements and the license.

2 In-Situ Leach (ISL) Facilities (Inspection Procedure 89001)

2.1 Inspection Scope

Determine if in-situ recovery activities were conducted in accordance with regulatory requirements and the license.

2.2 Observation and Findings

a. <u>Uranium Recovery</u>

At the time of the inspection, uranium recovery operations were being performed at Nichols Ranch Production Areas (PA) 1 and 2. The PA-1 consists of eight header house and one header house is in production in PA-2. The licensee has not put any additional header houses in PA-2 in service since the last inspection. The inspectors reviewed records of the lixiviant composition and concluded the results were in compliance with License Condition 10.1 requirements to utilize carbon dioxide gas, sodium carbonate, sodium bicarbonate, dissolved oxygen, or hydrogen peroxide.

At the time of the inspection, the average production flow for Nichols Ranch was approximately 1,864 gallons per minute. The licensee is below the average daily flowrate capacity of 3,500 gallons per minute specified in License Condition 10.2. The inspectors reviewed the licensee's uranium production records and noted the annual production for calendar year 2017 to year-to-date 2018 was well below the annual limit specified in License Condition 10.2.

During this inspection, the inspectors reviewed the monitoring well sampling protocols and the monitoring well water level tracking system used by the licensee to demonstrate and maintain the inward hydraulic gradient and optimize use of lixiviant. The inspectors reviewed quarterly data and year to date data to determine the licensee was maintaining an average percent bleed of 0.72 percent, within the license application requirement of 0.5 to 1.5 percent.

b. Site Tours

The inspectors conducted a site tour to observe in-situ uranium recovery activities at the Nichols Ranch Central Processing Plant (CPP), focusing on the yellowcake press drop process and yellowcake slurry storage prior to shipment offsite for drying.

The inspectors found all entrance areas to the facility and wellfields were posted with the words, "Any Area Within This Facility May Contain Radioactive Material", as required by License Condition 9.11. Additionally, the temporary storage of byproduct waste materials was located in fenced and locked restricted areas which were appropriately posted.

The inspectors conducted independent radiological surveys of the gamma exposure rates present in the central processing plant, header houses and wellfields. The surveys were conducted using a Ludlum Model 19 microRoentgen rate meter (μ R/hr) (NRC No. 015518, serial number 36543, calibration due date of October 25, 2018, calibrated to radium-226). The inspectors noted the as-found gamma exposure rates were consistent with the licensee's measurements. The licensee had several areas conservatively posted as radiation areas. The inspectors did not identify any areas which had not already been posted as radiation areas by the licensee. The inspectors determined the licensee identified and posted radiation areas as required by 10 CFR 20.1902.

2.3 <u>Conclusion</u>

The licensee conducted in-situ recovery and operations in accordance with the license and regulatory requirements. Radiological controls including signs and postings were implemented in accordance with license and regulatory requirements.

3 Radiation Protection (Inspection Procedure 83822)

3.1 <u>Inspection Scope</u>

Determine whether the licensee's radiation protection program was conducted in compliance with the license and 10 CFR Part 20 requirements.

3.2 Observations and Findings

a. Occupational Exposures

The inspectors reviewed the licensee's occupational exposure records for the first three quarters of 2017. Approximately 25 employees were monitored for external exposure using optically stimulated luminescence (OSL) dosimeters which were exchanged on a quarterly basis. Occupationally monitored employees included plant and wellfield operators, health physics staff, laboratory staff and maintenance workers. The licensee divides the staff into two badge series. Series A is for CPP Operational staff. Series B is for all non-operational staff. The highest dose assigned to an operator (Series A) was 78 millirem (mrem) for calendar year 2017. The highest dose assigned for Series B staff, in this case a wellfield operator, was 14 mrem for calendar year 2017. All doses were below the limits established in 10 CFR 20.1201. Bioassay results were reviewed

by the inspectors. No bioassay results were above the action level for investigation (15 micrograms per liter). Spike and blanks were utilized as required by procedure.

The licensee conducted air sampling, in part, for assessment of internal exposures. The inspectors reviewed the licensee's radon-222 air sampling records and the uranium particulate and worker breathing zone results for the last three quarters of 2017 and the first quarter of 2018. The inspectors identified the internal exposures were below the limits established in 10 CFR 20.1201. The inspectors confirmed the licensee had conducted air sampling at the required intervals. The appropriate exposures were calculated and recorded for each employee.

b. Radiation Work Permits

Since the previous inspection, thirty-eight radiation work permits were issued and involved repair/maintenance/inspection work on tanks piping and valves, filter press drop work and clean-up associated with elution system and slurry trailer repairs and modifications. The inspectors reviewed the permits and found they included the necessary air sampling and protective equipment requirements for the work being performed.

c. Free release surveys

Free release surveys since the previous inspection from Nichols Ranch facility, were reviewed and found to be performed in accordance with License Condition 9.6.

d. Radiation Safety Instrumentation

The inspectors reviewed the licensee's operability, calibration and maintenance records for survey instruments. Instruments reviewed were found to be in calibration. The licensee uses an offsite vendor to perform annual calibration for radiation safety instrumentation. The inspectors observed survey meters used by licensee personnel when exiting restricted areas. The survey meters examined by the inspectors were found to be in calibration and were used appropriately by licensee's staff.

e. Respiratory Protection

The inspectors reviewed the licensee's respiratory protection procedures, medical testing and fit testing results. The inspectors found the licensee's respiratory protection program to meet the license and regulatory requirements.

3.3 <u>Conclusions</u>

The licensee implemented a radiation protection program meeting the requirements of 10 CFR Part 20 and the license. Occupational doses were less than established regulatory limits.

4 Effluent Control and Environmental Protection and Maintaining Effluents from Material Facilities ALARA (Inspection Procedures 88045 and 87102)

4.1 Inspection Scope

Determine if the environmental and effluent monitoring programs are adequate to monitor the impacts of site activities on the local environment.

4.2 Observations and Findings

a. Environmental Monitoring

The semi-annual reports were submitted timely by the licensee in accordance with the requirements of 10 CFR 40.65. Submissions were initially reviewed and evaluated by the NRC headquarters staff. The NRC headquarters staff review of these documents will be provided to the licensee under separate correspondence.

b. Dose to Members of the Public

The licensee conducted annual assessments of public doses as required by 10 CFR Part 20. The maximum public dose calculated for calendar year 2017 was 11 millirem total effective dose equivalent for a contractor who worked on site 660 hours per year. The dose was calculated using data from OSL dosimeters, radon track etch detectors, and particulate air samples. The assigned doses were primarily from radon-222 and its progeny. The highest dose recorded for an environmental OSL for calendar year 2017 was 79.4 mrem. This dosimeter (CPP-01) is located in the central processing plant at Nichols Ranch, an area not accessible to the general public. The highest environmental dosimeter which was accessible to the public (NR-2) recorded a dose of 26 mrem for calendar year 2017. It was this second dosimeter (NR-2) which was used in the public dose calculation. The licensee had not assessed public dose for 2018 at the time of the inspection.

c. <u>Wellfield and Excursion Monitoring</u>

The inspectors examined the reportable and non-reportable spill reports since the last inspection pursuant to the requirements of License Condition 11.5. The licensee had one reportable spill on June 12, 2017, of approximately 4500 gallons from Well N1C-047, near Header House 4 of Production Area #1. The spill was quickly absorbed and no fluid was recovered.

License Condition 11.5 requires, in part, the licensee monitor groundwater at designated excursion monitoring wells at least twice a month. The inspectors reviewed the licensee's quarterly mine permit reports since the last inspection with a discussion of current monitoring well sample data. The licensee had no excursions during the inspection time frame.

4.3 <u>Conclusions</u>

The licensee conducted environmental monitoring in accordance with license requirements. The licensee reported the results in semi-annual reports to the NRC.

The annual dose to members of the public remained below regulatory limits. The licensee was documenting spills and conducting excursion sampling as specified in the license.

5 Inspection of Transportation Activities and Radioactive Waste Processing, Handling and Storage (Inspection Procedures 86740 and 88035)

5.1 Inspection Scope

Determine if storage and disposal activities were conducted in compliance with regulatory and license requirements.

5.2 Observations and Findings

a. Inspection of Transportation Activities

The inspectors reviewed transportation activities since the last inspection. During this time period the licensee made yellowcake slurry and 11.e(2) byproduct waste shipments. The inspectors reviewed the licensee's procedures and shipping records associated with these shipments.

b. Inspection of Byproduct Waste Storage

The inspectors observed all 11.e(2) byproduct material waste storage bins were staged within restricted areas with surrounding fences and locked entries. The inspectors performed an ambient gamma radiation survey of the CPP containers and confirmed the area was appropriately posted and controlled in accordance with 10 CFR 20 regulations.

License Condition 9.9 requires the licensee to dispose of 11.e(2) byproduct material at a site licensed by the NRC or an NRC Agreement State, and to make notification to the NRC if an agreement expires or is terminated. The NRC staff reviewed the licensee's agreement for off-site disposal of solid 11.e(2) byproduct material. The NRC staff determined, although it appeared that licensee's disposal agreement was due for renewal, the March 2015 acquisition of Uranerz Energy Corporation by Energy Fuels Resources negated the need for a separate agreement.

c. Wastewater Treatment Activities

The licensee processes liquid effluent through reverse osmosis units, stored in storage tanks, or disposed to a deep disposal well.

The inspectors reviewed the licensed activities associated with a selected deep disposal well and reviewed records to determine if the licensee was processing and disposing of wastes through the deep disposal wells in accordance with regulatory and license commitments.

The licensee has two deep disposal wells. The inspectors reviewed the quarterly reports associated with deep disposal wells NICH-DW-1 and NICH-DW-4 for the 2nd, 3rd, and 4th quarters of 2017 and the 1st quarter of 2018. The reports track average flowrate, average pressure and maximum pressure. The reports also identify any exceedances of flowrate and pressure limit values.

The following are the approximate average disposal flowrates and maximum pressures identified:

		2017		2018
NICH-DW-1	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>1st Qtr</u>
Avg. Flowrate (gpm)	25	30	30	23
Maximum Flowrate (gpm)	63	54	40	60
Limiting Flowrate (gpm)	150			
Avg. Injection Pressure	1024	964	902	785
(psig)				
Maximum Pressure (psig)	1140	1172	1133	1101
Limiting Pressure (psig)	1196			
NICH-DW-4				
Average Flowrate (gpm)	25	30	30	24
Maximum Flowrate (gpm)	83	54	48	58
Avg. Injection Pressure	1062	1005	998	984
(psig)				
Maximum Pressure (psig)	1204	1191	1250	1236
Limiting Pressure (psig)	1283			

gpm = gallons per minute, psig = pounds per square inch-gauge

5.3 <u>Conclusions</u>

The shipment of yellowcake slurry and the management, storage, transportation, and disposal of 11.e(2) wastes were conducted in accordance with the license and regulatory requirements.

6 Emergency Preparedness and Fire Protection (Inspection Procedures 88050 and 88055)

6.1 <u>Inspection Scope</u>

Determine if the licensee's emergency preparedness and fire protection programs are adequate to protect the safety and health of employees, members of the public and the environment.

6.2 Observations and Findings

a. <u>Emergency Preparedness</u>

License Condition 10.4 requires, in part, the licensee develop and implement standard operating procedures for potential accidents/unusual occurrences, including equipment or facility damage, pipe breaks or spills, loss or theft of yellowcake, fires and other natural disasters. The inspectors reviewed the following procedures: emergency evacuations; chemical emergencies; security plan; natural emergencies; transportation emergencies; emergency notification and reporting; and fire, electrical, and gas emergencies. In addition, the inspectors reviewed local emergency planning committee

meeting documentation. The inspectors reviewed documentation of the last training and site orientation for local emergency response and law enforcement.

Employees receive emergency training during their initial and refresher training. Visitors to the site are provided site orientation training, which includes evacuation gathering points.

b. Fire Protection

The inspectors reviewed the fire protection program developed by the licensee in response to the requirements of License Condition 10.4 and the license application. The fire protection plan meets the minimum requirements of 29 CFR 1910.39. Employees are trained on fire prevention and fire extinguisher use as part of new employee orientation.

6.3 <u>Conclusions</u>

The licensee has standard operating procedures associated with emergency preparedness and fire protection sufficient to meet the requirements of License Condition 10.4 and the application. Employees and visitors are provided emergency preparedness and fire protection training as applicable. The licensee has coordinated with local law enforcement and emergency response organizations for emergency response purposes.

7 Exit Meeting Summary

The NRC inspectors presented the preliminary inspection findings to the licensee's representatives at the conclusion of the onsite inspection on April 19, 2018. During the inspection, the licensee did not identify any information reviewed by the NRC as proprietary which was included in this report. The final inspection findings were discussed with licensee representatives via telephone on June 20, 2018.

SUPPLEMENTAL INSPECTION INFORMATION

Partial List Of Persons Contacted

Licensee Personnel

B. Bonifas, Director of Wyoming Operations/Mine Manager

- P. Goranson, Executive Vice President Operations
- A. Linard, ES&H Manager and RSO
- A. Everson, Wellfield Operations Supervisor
- H. Ballinger, Operations Supervisor
- T. Hind, Projects, Construction and Maintenance Manager
- B. Vrbas, Drilling, Wellfield Development and Surface Reclamation Manager
- K. Nelson, Laboratory Technician
- P. Bowman, Radiation Safety Technician
- T. Tucker, Operator

Inspection Procedures Used

- IP83822 Radiation Protection
- IP86740 Inspection of Transportation Activities
- IP87102 Maintaining Effluents from Materials Facilities ALARA
- IP88005 Management Organization and Control
- IP88045 Effluent Control and Environmental Protection
- IP88035 Radioactive Waste Processing, Handling, Storage and Transportation
- IP88050 Emergency Prepardness
- IP88055 Fire Protection
- IP89001 In-situ Leach Operations

Items Opened, Closed and Discussed

<u>Opened</u>

None

Closed

None

Discussed

None

List of Acronyms

Agencywide Documents Access and Management System
As Low As is Reasonably Achievable
Code of Federal Regulations
Central Processing Plant
Environmental Safety and Health
gallons per minute
NRC Inspection Procedure
In-Situ Leach
microRoentgen per hour
millirem per hour
U.S. Nuclear Regulatory Commission
Optically Stimulated Luminescence
Production Area
Radiation Safety Officer
Radiation Safety Technician
Safety and Environmental Review Panel

ADAMS ACCESSION NUMBER: ML18177A428

SUNSI Review	ADAMS	Non-Sensitive	Publicly Available		Keyword:			
By: MRP	■ Yes □ No	Sensitive	Non-Publicly Available		NRC-002			
OFFICE	RIV:DNMS:FCDB	DNMS/FCDB	BC:FCDB		В			
NAME	MRPoston-Brown	BDBaca		JFKatan	lic			
SIGNATURE	/RA/	/RA/		/RA/				
DATE	7/11/18	7/10/18		7/12/18				
OFFICIAL RECORD COPY								