

Draft LC#	Draft License Condition	AUC Comments
<b>Section 9: Administrative Conditions</b>		
<b><i>Standard Conditions</i></b>		
9.1	The authorized place of use shall be the licensee's Reno Creek Project in situ recovery (ISR) in Campbell County, Wyoming. The licensee shall conduct operations within the Project area boundaries shown in Figure 1-2 of the approved license application.	No comment.
9.2	<p>The licensee shall conduct operations in accordance with the commitments, representations, and statements contained in the license application dated October 3, 2012 (Agency wide Documents Access and Management System (ADAMS) Accession No. ML122890785), and supplemented by submittals dated June 7, 2013 (ML131680092), July 19, 2013 (ML132190282), June 13, 2014 (ML14169A452), June 24, 2014, (ML14182A470), September 4, 2014 (ML14251A011), December 23, 2014 (ML15002A077), April 22, 2015 (ML15119A317), and Date (MLXXXXXXXXXX). The approved application and supplements, hereby, are incorporated by reference, except where superseded by specific conditions in this license. The licensee must maintain the approved, updated, license application on site.</p> <p>Whenever the word “will” or “shall” is used in the above referenced documents, it shall denote a requirement. The use of the word “Wellfield” in this license is synonymous with the use of the tem “Production Unit” or as a general descriptive term; it may or may not equate to wellfield as defined in the approved license application. A “wellfield production area” means the area in which lixiviant is injected into the subsurface. The use of “verification” in this license with respect to a document submitted for NRC staff review means a written acknowledgement by U.S. Nuclear Regulatory Commission (NRC) staff that the specified submitted material is consistent with commitments in the approved license application, or</p>	<p>Insert "electronic" prior to license in the last sentence of the 1st paragraph.</p> <p>Revise the sentence as follows: "The licensee must maintain the approved, updated, electronic license application on site."</p>

Draft LC#	Draft License Condition	AUC Comments
	requirements in a license condition or regulation. A verification will not require a license amendment.	
9.3	All written notices and reports sent to the NRC as required under this license and by regulation shall be addressed as follows: ATTN: Document Control Desk, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. An additional copy shall be submitted to: Deputy Director, Division of Decommissioning, Uranium Recovery and Waste Programs, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Mail Stop T-8F5, 11545 Rockville Pike, Rockville, MD 20852-2738. Incidents and events that require telephone notification shall be made to the NRC Operations Center at (301) 816-5100 (collect calls accepted).	No comment.
9.4	<p>Change, Test, and Experiment License Condition</p> <p>A. The licensee may, without obtaining a license amendment pursuant to 10 CFR 40.44, and subject to conditions specified in (B) of this condition:</p> <ul style="list-style-type: none"> <li>i Make changes in the facility as described in the license application (as updated);</li> <li>ii Make changes in the procedures as described in the license application (as updated); and</li> <li>iii Conduct tests or experiments not described in the license application (as updated).</li> </ul> <p>B. The licensee shall obtain a license amendment pursuant to 10 CFR 40.44 prior to implementing a proposed change, test, or experiment if the change, test, or experiment would:</p> <ul style="list-style-type: none"> <li>i Result in more than a minimal increase in the frequency of occurrence of an accident previously evaluated in the license application (as updated);</li> <li>ii Result in more than a minimal increase in the likelihood of occurrence</li> </ul>	No comment.

Draft LC#	Draft License Condition	AUC Comments
9.4 (Cont.)	<p>of a malfunction of a facility structure, equipment, or monitoring system (SEMS) important to safety previously evaluated in the license application (as updated);</p> <p>iii Result in more than a minimal increase in the consequences of an accident previously evaluated in the license application (as updated);</p> <p>iv Result in more than a minimal increase in the consequences of a malfunction of an SEMS important to safety previously evaluated in the license application (as updated);</p> <p>v Create a possibility for an accident of a different type than any previously evaluated in the license application (as updated);</p> <p>vi Create a possibility for a malfunction of an SEMS important to safety with a different result than previously evaluated in the license application (as updated); or</p> <p>vii Result in a departure from the method of evaluation described in the license application (as updated) used by the NRC in establishing the final safety evaluation report (FSER), environmental impact statement (EIS), environmental assessment (EA), technical evaluation reports (TERs), or other analyses and evaluations for license amendments.</p> <p>For purposes of this paragraph as applied to this license, SEMS important to safety means any SEMS that has been referenced in a staff SER, TER, EA, or EIS, and supplements and amendments thereof.</p> <p>C. Additionally, the licensee must obtain a license amendment unless the change, test, or experiment is consistent with NRC's previous conclusions, or the basis of, or analysis leading to, the conclusions of actions, designs, or design configurations analyzed and selected in the site or facility SER, TER, and EIS or EA. This would include all supplements and amendments, and SERs, TERs, EAs, and EISs issued with amendments to</p>	

Draft LC#	Draft License Condition	AUC Comments
9.4 (Cont.)	<p>this license.</p> <p>D. The licensee's determinations concerning (B) and (C) of this condition, shall be made by a Safety and Environmental Review Panel (SERP). The SERP shall consist of a minimum of three individuals. One member of the SERP shall have expertise in management (e.g., Plant Manager) and shall be responsible for financial approval for changes; one member shall have expertise in operations and/or construction and shall have responsibility for implementing any operational changes; and one member shall be the radiation safety officer (RSO) or equivalent meeting recommendations in paragraph 2.4 of Regulatory Guide 8.31 with the responsibility of assuring changes conform to radiation safety and environmental requirements. Additional members may be included in the SERP, as appropriate, to address technical aspects such as ground water or surface water hydrology, specific earth sciences, and other technical disciplines. Temporary members or permanent members, other than the three above-specified individuals, may be consultants.</p> <p>E. The licensee shall maintain records of any changes made pursuant to this condition until license termination. These records shall include written safety and environmental evaluations made by the SERP that provide the basis for determining changes are in compliance with (B) of this condition. The licensee shall furnish, in an annual report to the NRC, a description of such changes, tests, or experiments, including a summary of the safety and environmental evaluation of each. In addition, the licensee shall annually submit to the NRC page changes, which shall include both a change indicator for the area changed, e.g., a bold line vertically drawn in the margin adjacent to the portion actually changed, and a page change identification (date of change or change number or both), to the operations</p>	

Draft LC#	Draft License Condition	AUC Comments
9.4 (Cont.)	plan and reclamation plan of the approved license application (as updated) to reflect changes made under this condition.	
9.5	<p>Financial Assurance. The licensee shall maintain an NRC-approved financial surety arrangement, consistent with 10 CFR 40, Appendix A, Criterion 9, adequate to cover the estimated costs, if accomplished by a third party, for decommissioning and decontamination, which includes offsite disposal of radioactive solid process or evaporation pond residues, and ground water restoration. The surety shall also include the costs associated with all soil and water sampling analyses necessary to confirm the completion of decontamination.</p> <p>Proposed annual updates to the financial assurance amount, consistent with 10 CFR Part 40, Appendix A, Criterion 9, shall be provided to the NRC 90 days prior to the anniversary date (e.g. renewal date of the financial assurance instrument/vehicle). The financial assurance update renewal date for the Reno Creek Project will be determined following consultation with the licensee and the State of Wyoming. If the NRC has not approved a proposed revision 30 days prior to the expiration date of the existing financial assurance arrangement, the licensee shall extend the existing arrangement, prior to expiration, for one year. Along with each proposed revision or annual update of the financial assurance estimate, the licensee shall submit supporting documentation, showing a breakdown of the costs and the basis for the cost estimates with adjustments for inflation, maintenance of a minimum 15-percent contingency, changes in engineering plans, activities performed, and any other conditions affecting the estimated costs for site closure. Within 90 days of NRC approval of a revised closure (decommissioning) plan and its cost estimate, the licensee shall submit, for NRC staff review and approval, a proposed revision to the financial assurance arrangement if estimated costs exceed the amount</p>	<p>Add "as warranted" following ground water restoration in the second sentence.</p> <p>Revise the sentence as follows: "The licensee shall maintain an NRC-approved financial surety arrangement, consistent with 10 CFR 40, Appendix A, Criterion 9, adequate to cover the estimated costs, if accomplished by a third party, for decommissioning and decontamination, which includes offsite disposal of radioactive solid process or evaporation pond residues, and ground water restoration as warranted."</p>

Draft LC#	Draft License Condition	AUC Comments
9.5 (Cont.)	<p>covered in the existing arrangement. The revised financial assurance instrument shall then be in effect within 30 days of written NRC approval of the documents.</p> <p>At least 90 days prior to beginning construction associated with any approved, planned expansion or operational change that was not included in the annual financial assurance update, the licensee shall provide, for NRC approval, an updated estimate to cover the expansion or change. The licensee shall also provide the NRC with copies of financial assurance-related correspondence submitted to the State of Wyoming, a copy of the State's financial assurance review, and the final approved financial assurance arrangement. The licensee also must ensure that the financial assurance instrument, where authorized to be held by the State, identifies the NRC-related portion of the instrument and covers the aboveground decommissioning and decontamination, the cost of offsite disposal of solid byproduct material, soil, and water sample analyses, and ground water restoration associated with the site. The basis for the cost estimate is the NRC-approved site closure plan or the NRC-approved revisions to the plan. Reclamation or decommissioning plan cost estimates and annual updates should follow the outline in Appendix C to NUREG-1569 entitled <i>"Recommended Outline for Site-Specific In Situ Leach Facility Reclamation and Stabilization Cost Estimates."</i></p> <p>The licensee shall continuously maintain an approved surety instrument for the Reno Creek Project, in favor of the State of Wyoming. The initial surety estimate shall be submitted for NRC review and approval within 90 days of license issuance, and the surety instrument shall be submitted for NRC staff review and approval 90 days prior to commencing operations.</p>	

Draft LC#	Draft License Condition	AUC Comments
9.6	<p>Release of surficial contaminated equipment, materials, or packages for unrestricted use shall be in accordance with the NRC guidance document "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material," (the Guidelines) dated April 1993 (ADAMS Accession No. ML003745526) or suitable alternative procedures approved by NRC prior to any such release.</p> <p>Where surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides shall apply independently.</p> <p>Personnel performing contamination surveys for items released for unrestricted use shall meet the qualifications as health physics technician or radiation safety officer as defined in Regulatory Guide 8.31 (as revised). Personal effects (e.g., notebooks and flash lights) which are hand carried need not be subjected to the qualified individual survey or evaluation, but these items should be subjected to the same survey requirements as the individual possessing the items.</p> <p>Regulatory Guide 8.30 (as revised), Table 2 shall apply to the removal to unrestricted areas, of equipment, materials, or packages that have potential accessible surface contamination levels above background radiation levels. The contamination control program shall provide sufficient detail to demonstrate how the licensee will maintain radiological controls over the equipment, materials, or packages that have the potential for accessible surface contamination levels above background, until they have been released for unrestricted use as specified in the Guidelines, and what methods will be used to limit the spread of contamination to unrestricted</p>	<p>The second to last sentence in the fourth paragraph should include "controlled or". Revise the sentence to read as follows: "The contamination control program shall demonstrate how the licensee will limit the spread of contamination when moving or transporting potentially contaminated equipment, materials, or packages (i.e. pumps, valves, piping, filters, etc.) from controlled or restricted areas through unrestricted areas."</p>

Draft LC#	Draft License Condition	AUC Comments
9.6 (Cont.)	<p>areas. The contamination control program shall demonstrate how the licensee will limit the spread of contamination when moving or transporting potentially contaminated equipment, materials, or packages (i.e. pumps, valves, piping, filters, etc.) from restricted areas through unrestricted areas. Prior to its implementation, the licensee shall receive written NRC verification of the licensee's contamination control program if recommendations in Regulatory Guide 8.30 are not followed.</p> <p>The licensee may identify a qualified designee(s) to perform surveys, as needed, associated with the licensee's contamination control program when moving or transporting potentially contaminated equipment, materials, or packages from restricted or controlled areas through uncontrolled areas and back into controlled or restricted areas. The qualified designee(s) shall have completed education, training, and experience, in addition to general radiation worker training, as specified by the licensee. The education, training, and experience required by the licensee for qualified designees shall be submitted to the NRC for review and written verification. The licensee shall receive written verification of the licensee's qualified designee(s) training program prior to its implementation.</p>	
9.7  9.7 (Cont.)	<p>The licensee shall follow the guidance set forth in NRC Regulatory Guides 8.22, "Bioassay at Uranium Recovery Facilities" (as revised), 8.30, "Health Physics Surveys in Uranium Recovery Facilities" (as revised) and 8.31, "Information Relevant to Ensuring that Occupational Radiation Exposure at Uranium Recovery Facilities will be As Low As Is Reasonably Achievable (ALARA)," (as revised) or NRC-approved equivalent with the following exception:</p> <p>The licensee may identify qualified designee(s) to perform daily inspections in the occasional absence of the RSO and radiation safety</p>	<p>In the fifth sentence of the second paragraph please remove the requirement that reports generated by the designee be reviewed "no later than 3 hours from the beginning of the next work day".</p> <p>The approved license application states in Section 5.4.3 Qualifications and Requirements for Daily Walkthrough Inspections that "The RSO or RST will</p>

Draft LC#	Draft License Condition	AUC Comments
9.7 (Cont.)	<p>technician(s) (RST). The qualified designee(s) will have health physics training, and the licensee will specify the training program to qualify a designee and submit it to the NRC staff for review and written verification. A qualified designee may perform daily inspections on weekends, holidays, or times when both the RSO and RST(s) must both be absent (e.g., illness or offsite training). A designee shall not perform daily inspections for more than two consecutive days except in the event of a Federal or company holiday, whereby the designee will not exceed more than three consecutive days. Reports generated by the designee will be reviewed by the RSO or RST as soon as practical, but no later than 3 hours from the beginning of the next work day following an absence, weekend, or holiday. The licensee will also have the RSO or RST available by telephone while the qualified designee is performing the daily inspections.</p> <p>Notwithstanding the License Condition (LC) 9.4 change process, no additional exceptions to the guidance will be implemented without written NRC verification that the criteria in LC 9.4 do not require a license amendment.</p>	<p>review the inspection forms as a top priority upon return to the site, and will deal with noted problems." (See response to TR RAI 42).</p> <p>Revise the sentence to read as follows:  "Reports generated by the designee will be reviewed by the RSO or RST as soon as practical and as a top priority upon return to the site from the beginning of the next work day following an absence, weekend, or holiday."</p> <p>The approved license application also states in Section 5.4.3 Qualifications and Requirements for Daily Walkthrough Inspections that "With the exception of the Thanksgiving holiday, the DO will not conduct the inspections for more than two days per week, or three days per week if a Federal holiday falls on Friday or Monday. For the Thanksgiving holiday, the DO may perform the inspections for up to four consecutive days." Please revise the fourth sentence in the second paragraph as follows to include the Thanksgiving holiday: "With the exception of the Thanksgiving holiday, a designee shall not perform daily inspections for more than two consecutive days, except</p>

Draft LC#	Draft License Condition	AUC Comments
		in the event of a Federal or company holiday, whereby the designee will not exceed more than three consecutive days; for the Thanksgiving holiday, the DO may perform the inspections for up to four consecutive days.”
9.8	<p>Cultural Resources. Before engaging in any developmental activity not previously assessed by the NRC, the licensee shall administer a cultural resource inventory. All disturbances associated with the proposed development will be completed in compliance with the National Historic Preservation Act (as amended) and its implementing regulations (36 CFR Part 800), and the Archaeological Resources Protection Act (as amended) and its implementing regulations (43 CFR Part 7).</p> <p>In order to ensure that no unapproved disturbance of cultural resources occurs, any work resulting in the discovery of previously unknown cultural artifacts shall cease. The artifacts shall be inventoried and evaluated in accordance with 36 CFR Part 800, and no disturbance of the area shall occur until the licensee has received authorization to proceed from the NRC, Wyoming State Historic Preservation Officer or the Bureau of Land Management (BLM), as appropriate.</p>	<p>The Reno Creek Project area does not contain any Bureau of Land Management (BLM) surface, therefore please remove the reference to the BLM in the last sentence of the second paragraph.</p> <p>Revise L.C. as follows: "The artifacts shall be inventoried and evaluated in accordance with 36 CFR Part 800, and no disturbance of the area shall occur until the licensee has received authorization to proceed from the Wyoming State Historic Preservation Officer or the NRC, as appropriate."</p>
9.9  9.9 (Cont.)	The licensee shall dispose of solid byproduct material from the Reno Creek Project at a site that is authorized by NRC or an NRC-Agreement State to receive such byproduct material. The licensee’s approved solid byproduct material disposal agreement shall be maintained on site during any time the facility is in operation. In the event that the agreement expires or is terminated, the licensee shall notify the NRC in writing within seven working days after the date of expiration or termination. A new agreement shall be submitted for NRC review within 90 days after expiration or	No comment

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
	termination, or the licensee will be prohibited from further lixiviant injection.	
9.10	The results of the following activities, operations, or actions shall be documented: sampling; analyses; surveys or monitoring; survey/monitoring equipment calibrations; audits and inspections; all meetings and training courses; and any subsequent reviews, investigations, or corrective actions required by NRC regulation or this license. Unless otherwise specified in a license condition or applicable NRC regulation, all documentation required by this license shall be maintained until license termination, and is subject to NRC review and inspection.	No comment
9.11	The licensee is hereby exempted from the requirements of 10 CFR 20.1902(e) for areas within the facility, provided that all entrances to the facility are conspicuously posted with the words, "CAUTION: ANY AREA WITHIN THIS FACILITY MAY CONTAIN RADIOACTIVE MATERIAL."	No comment
<b>Section 10: Operations, Control, Limits and Restrictions</b>		
<b><i>Standard Conditions</i></b>		
10.1	The licensee shall use a lixiviant composed of native ground water; carbon dioxide, sodium carbonate and/or sodium bicarbonate; and hydrogen peroxide and/or oxygen, as specified in Section 3.1.4.1 of the licensee's approved license application.	Add sodium chlorate as an oxidant since sodium chlorate is discussed in Section 3.1.4.1, Lixiviant, as a possible oxidant for use in the partially saturated portion of the PZA.
10.1 (Cont.)		Revise L.C. as follows: "The licensee shall use a lixiviant composed of native ground water; carbon dioxide, sodium carbonate and/or sodium bicarbonate; and hydrogen peroxide, oxygen and/or sodium chlorate, as

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
		specified in Section 3.1.4.1 of the licensee's approved license application."
10.2	Facility Throughput. The Reno Creek Project processing facility throughput shall not exceed a maximum instantaneous flow rate of 11,000 gallons per minute, excluding restoration flow. The annual production of dried yellowcake shall not exceed two million pounds.	No comment
10.3	At least 12 months prior to initiation of any planned final site decommissioning, the licensee shall submit a detailed decommissioning plan for NRC staff review and approval. The plan shall represent as-built conditions at the Reno Creek Project.	No comment
10.4	<p>The licensee shall develop and implement written standard operating procedures (SOPs) prior to operation for:</p> <p>A. All routine operational activities involving radioactive and non-radioactive materials associated with licensed activities that are handled, processed, stored, or transported by employees;</p> <p>B. All routine non-operational activities involving radioactive materials including in-plant radiation protection and environmental monitoring; and</p> <p>C. Emergency procedures for potential accident/unusual occurrences including significant equipment or facility damage, pipe breaks and spills, loss or theft of yellowcake or sealed sources, significant fires, and other natural disasters.</p> <p>The SOPs shall include appropriate radiation safety practices to be followed in accordance with 10 CFR Part 20. SOPs for operational activities shall enumerate pertinent radiation safety practices to be followed. A copy of the current written procedures shall be kept in the</p>	Revise the condition in Section A as follows: "All routine operational activities involving radioactive materials and potentially hazardous bulk chemicals, gasoline and diesel associated with licensed activities that are handled, processed, stored, or transported by employees."

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
10.4 (Cont.)	area(s) of the production facility where they are utilized. Should an activity be deemed ‘non-routine’, its procedures will be documented in a specific Radiation Work Permit for that non-routine activity.	
10.5	Mechanical Integrity Tests. The licensee shall construct all wells in accordance with methods described in Section 3.1.3 of the approved license application. Mechanical integrity tests shall be performed on all wells (injection, extraction, and monitoring wells) before the well is utilized and on wells that have been serviced with equipment or procedures that could damage the well casing. Each well shall be retested at least once every five years it is in use. Integrity tests shall be performed in accordance with Section 3.1.3.3 of the licensee’s approved license application. Any failed well casing that cannot be repaired to pass the integrity test shall be appropriately plugged and abandoned in accordance with Section 3.1.3.3 of the approved license application.	Delete the unnecessary L.C. (10.5) because this issue is adequately handled in the TR. Mechanical Integrity Testing is already detailed in the approved license application in Section 3.1.3.3.
10.6	<p>Ground Water Restoration. The licensee shall conduct ground water restoration activities in accordance with Section 6.1.5 of the approved license application. Permanent cessation of lixiviant injection in a Production Unit would signify the licensee’s intent to shift from the principal activity of uranium recovery to the initiation of ground water restoration and decommissioning for any particular Production Unit. If the licensee determines that these activities are expected to exceed 24 months for any particular Production Unit, then the licensee shall submit for approval an alternate schedule request to the NRC that meets the requirements of 10 CFR 40.42.</p> <p>Restoration Standards. Hazardous constituents in the ground water shall be restored to the numerical ground water protection standards as required by 10 CFR Part 40, Appendix A, Criterion 5B(5). In submitting any license amendment application requesting review and approval of proposed</p>	No comment.

Draft LC#	Draft License Condition	AUC Comments
10.6 (Cont.)	<p>alternate concentration limits (ACLs) pursuant to Criterion 5B(6), the licensee must also show that it has first made practicable effort to restore the specified hazardous constituents to the background or maximum contaminant levels (whichever is greater).</p> <p>Restoration Stability Monitoring. The licensee shall conduct sampling of the parameters included in the baseline sampling under LC 11.3 during the restoration stability period in accordance with Section 6.1.5 of the approved application. The sampling consists of four samples during a nine month period. The sampling shall include the specified production zone aquifer wells used to define the baseline levels. The applicant shall continue the stability monitoring until the data show, for all parameters monitored, no statistically significant increasing trend, which would lead to an exceedance of the relevant standard in 10 CFR Part 40, Appendix A, Criterion 5B(5).</p>	
10.7	<p>The licensee shall maintain a net inward hydraulic gradient at a Production Unit as measured from the surrounding perimeter monitoring well ring starting when lixiviant is first injected into the production zone and continuing until initiation of the stabilization period.</p>	<p>Delete the unnecessary L.C. (10.7) because this issue is adequately handled in the TR since AUC commits to maintain an inward gradient from the start of uranium recovery operations until initiation of the groundwater stabilization period in Section 3.1.5, Wellfield Design, of the approved license application.</p>
10.8	<p>The licensee shall establish and conduct an effluent and environmental monitoring program in accordance with programs described in Section 5.7.7 (Airborne Effluent and Environmental Monitoring Programs) and Section 5.7.8 (Groundwater/Surface Water Monitoring Program) of the approved license application.</p>	<p>No comment.</p>

Draft LC#	Draft License Condition	AUC Comments
<b><i>Facility Specific Conditions</i></b>		
10.9	<p>The licensee is permitted to construct and operate a single lined storage pond as described in Section 4.3.5 of the approved license application. The pond will be used for retention of liquid byproduct material prior to disposal in a deep disposal well. Routine pond inspections will be conducted in accordance with procedures defined in Sections 4.3.5.3 and 5.3.1 of the approved license application. The inspections include:</p> <p>A. Daily Inspection. The licensee will perform daily inspections in accordance with Sections 4.3.5.3.1 and 5.3.1.1 of the approved license application. The inspections will include visual inspections of the piping, berms, diversion ditches, freeboard and leak detection systems. The minimum freeboard is two feet. If during the daily inspections, a fluid height in any of the standpipes for the pond leak detection system is found to be in excess of six vertical inches, then the licensee will collect a sample of the fluid for analysis of specific conductance. If the specific conductance of the fluid in the leak detection system is in excess of 50 percent of the specific conductance of fluids in the pond, then it is concluded that a leak has occurred in the pond primary liner and the licensee will perform mitigative and corrective actions. The corrective actions include notifying the NRC Headquarters Project Manager (PM) by telephone or electronic (email) within 48 hours and lowering the water level in the pond sufficiently to eliminate the leak. If corrective actions are not completed within 60 days, the pond will not be used to store any byproduct material until the liner is inspected by qualified personnel as required by Subsection D (Annual Technical Inspection). The licensee will submit a report to NRC upon completion of the corrective actions including documentation of all pond repairs. Routine daily inspections</p>	<p>AUC committed to review of the weekly pond inspection report by the Manager of Health, Safety and Environmental Affairs, and the Operations Manager in Section 4.3.5.3.2 Weekly Inspections of the approved license application.</p> <p>4.3.5.3.2 Weekly Inspections</p> <p>Weekly inspections will include visual inspection of the entire area, including perimeter fencing. The Manager of EHS and Regulatory Affairs, and the Operations Manager, will review the inspection report. Routine weekly inspections reports will be maintained onsite by the RSO for NRC staff to review during routine site inspections.</p> <p>Delete RSO from the fourth sentence of item B and include the term "weekly pond" for clarity. The revised sentence will read as follows: "The weekly pond inspection report will be reviewed by the Manager of Health, Safety and Environmental Affairs, and the Operations Manager."</p>

Draft LC#	Draft License Condition	AUC Comments
10.9 (Cont.)	<p>reports will be maintained on-site for NRC staff to review during routine inspections.</p> <p>B. Weekly Inspection. The licensee will conduct weekly inspections in accordance with Sections 4.3.5.3.2 and 5.3.1.2 of the approved license application. The inspections will include visual inspection of the entire area including perimeter fencing. The inspection report will be reviewed by the RSO, Manager of Health, Safety and Environmental Affairs, and the Operations Manager. The weekly inspection reports will be maintained on-site for NRC staff to review during inspections.</p> <p>C. Quarterly Inspection. The licensee will conduct quarterly inspections in accordance with Section 4.3.5.3.3 of the approved license application. Results of the quarterly inspections will be included in the semi-annual report submitted to NRC as required by LC 11.1. If ground water quality in the monitoring wells indicates a release of fluids from the pond, then the licensee will immediately perform corrective actions to eliminate the leak and any appropriate remedial actions including characterization of impacts to shallow soils and water in the uppermost aquifer. Results of the quarterly inspections will be submitted to NRC for review.</p> <p>D. Annual Technical Inspection. The licensee will conduct annual inspections in accordance with Section 4.3.5.3.4 of the approved license application. The annual inspection will include a review of the previous year's daily, weekly, and quarterly inspections, assessment of the hydraulic and hydrologic capacities, and a survey of the embankment by qualified personnel. A copy of the report will be submitted to NRC for review.</p>	
10.10	The licensee shall submit to NRC staff for review and approval, plans for equipment and procedures prior to the use, storage, handling and transport	Delete the unnecessary L.C. (10.10) because this issue is adequately handled in the TR.

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
10.10 (Cont.)	of biological or chemical materials for reductant injections during restoration.	<p>AUC has addressed the use of chemical reductants such as sulfide and/or sulfite compounds in the approved license application in Section 6.1.4.3 Reverse Osmosis Treatment with Permeate Injection and Reductant Addition.</p> <p>AUC has also addressed the possible development of bio-remediation to create reducing conditions within a Production Unit undergoing groundwater restoration in the approved license application. In TR Section 6.1.4.4 Alternate Groundwater Restoration Method AUC states that it will SERP the development and field testing of bio-remediation. As part of the SERP process, the committee will consider the use, storage, handling and transport of biological materials for reductant injection prior to approving the use or implementation of bio-remediation for groundwater restoration.</p>
10.11	Prior to conducting tests for a wellfield data package, the licensee will attempt to locate and abandon all historic drill holes within: A) The perimeter well ring for the Production Unit; and B) To the extent the historic drill holes extend into the first underlying aquifer, the area that is downgradient of the Production Unit and is between the perimeter well ring for the Production Unit and the closer of either:	Please reference the discussion contained in Mr. Chad Glenn's memorandum (ML15113B306) on the March 31, 2015 Public Meeting in Section 1. Hydrogeology Open Issues, 1(a) Draft SER Section 2.3.3.4 (TR Section 2.6.3; RAI Response N/A), Plugging Abandoned Drill Holes.

Draft LC#	Draft License Condition	AUC Comments
10.11 (Cont.)	<p>i. The Reno Creek Project area boundaries shown in Figure 1-2 of the approved license application; or</p> <p>ii. The outer boundary of the exempted aquifer as defined by the Class III Underground Injection Control (UIC) permit issued by the Wyoming Department of Environmental Quality (WDEQ).</p> <p>The licensee will document such efforts to identify and properly abandon all drill holes in the wellfield data package.</p>	<p>Disposition:          “AUC agreed to the NRC staff’s proposed license condition. This issue is open pending the NRC staff’s review of the proposed license condition which will require the abandonment and plugging of all wells within a wellfield prior to hydrogeologic testing for the wellfield hydrogeologic data package.”</p> <p>During the discussion between AUC and NRC, AUC agreed to the language in Mr. Glenn’s disposition discussion. Specifically, for the license condition, historic drill holes within the perimeter monitoring well ring would be attempted to be located and plugged. At no time during the discussion did the NRC staff mention plugging historic drill holes outside of the perimeter monitoring well ring nor was this condition agreed to by AUC.</p> <p>AUC proposes revising L.C. 10.11 as follows: “Prior to conducting tests for a wellfield data package, the licensee will attempt to locate and abandon all historic drill holes located within the perimeter well ring for the Wellfield. The licensee will document such efforts to identify and</p>

Draft LC#	Draft License Condition	AUC Comments
10.11 (Cont.)		properly abandon all drill holes in the wellfield data package.”
10.12	<p>Wellfield Data Package. Prior to conducting principal activities in a new Production Unit, the licensee shall submit a hydrologic test data package (wellfield data package) to the NRC. The initial wellfield data package will be submitted for NRC staff review and verification. Each wellfield data package shall be submitted at least 60 days prior to the planned start date of lixiviant injection. In each wellfield data package, the licensee will document that: (1) all perimeter monitoring wells are screened in the appropriate horizon in order to provide timely detection of an excursion; and (2), the baseline values to establish ground water protection standards and Upper Control Limits (UCLs) for the Production Unit in accordance with LC 11.3. The wellfield data package will adequately define heterogeneities that may affect the chemical signature and ground-water flow paths within the ore zone as described in Sections 2.7.2.3, 3.1.1 and 5.7.8.1 of the approved license application with the following conditions:</p> <p>(a) The licensee will not construct monitoring wells used for the ground water detection monitoring programs at the Production Units by Methods 1, 2 or 3 as defined by the approved license application. The licensee will document the potentiometric surface isopleth map for the OM aquifer in the wellfield data package. The licensee will include an analysis of flare in the wellfield data package. The flare should be based on operational history after the initial wellfield data package. If the Production Unit contains atypical patterns (e.g., line or staggered line patterns), the licensee will provide justification for the flare of the atypical patterns.</p> <p>(b) If a non-AUC controlled well (e.g., Coal Bed Methane (CBM) well, BLM All Night Creek wells) exists within a proposed Production Unit, the licensee will evaluate the need for including a monitoring plan to monitor</p>	<p>In section (a) delete the word "not" from the first sentence. AUC will use Methods 1, 2 or 3 as defined in the approved license application for groundwater detection monitoring programs. Method 4 has been restricted to shallow well monitoring use only.</p> <p>Revise the sentence as follows: "The licensee will construct monitoring wells used for the ground water detection monitoring programs at the Production Units by Methods 1, 2 or 3 as defined by the approved license application."</p> <p>The discussion of flare relating to standard five spot pattern configurations was covered in the groundwater modeling report included in the approved license application therefore delete the following two sentences from Section (a): "The licensee will include an analysis of flare in the wellfield data package. The flare should be based on operational history after the initial wellfield data package." AUC agrees flare analysis should be addressed for atypical patterns.</p>
10.12 (Cont.)		

Draft LC#	Draft License Condition	AUC Comments
10.12 (Cont.)	<p>the well water quality or install monitoring wells to monitor the potential migration should the casing cement pose a possible conduit for fluid migration. The monitoring may include a well in the first transmissive sand below the ore zone. If the non AUC controlled well is screened within the ore zone, the licensee will document that the well has been abandoned.</p> <p>(c) If the Production Unit is located within 400 feet of a tract of land for which the licensee does not have the mineral holdings, the licensee will submit in the wellfield data package a Memorandum of Reciprocal Well Agreement with the mineral holder.</p> <p>(d) If production or monitoring wells are completed in a 100-year flood plain, the licensee will ensure the wellheads have proper mitigation measures for flood protection.</p>	<p>Section (b): Please reference the discussion contained in Mr. Chad Glenn's memorandum (ML15113B306) on the Public Meeting held on March 31, 2015, Section 1(n). In the Disposition discussion Mr. Glenn noted that the resolution from this meeting on the BLM ANC well cluster is as follows:</p> <p>“Based on the discussion in this meeting, AUC agreed with the NRC staff’s proposed license condition (see Item 1(l)). This issue is open pending the NRC staff’s review of the proposed license condition which will specify that – just prior to the time the wellfield containing the BLM ANC well cluster is to be developed, AUC will submit a plan to NRC, describing:</p> <ul style="list-style-type: none"> <li>• What is to be done with the BLM well screened in the PZA, and</li> <li>• Documents BLM’s concurrence with the plan.”</li> </ul> <p>AUC requests that the last sentence in Section (b) be revised as follows to reflect the resolution of the BLM ANC well cluster in the Public Meeting: "If the non AUC controlled well is screened within the ore zone, the licensee will:</p>

Draft LC#	Draft License Condition	AUC Comments
		<ul style="list-style-type: none"> <li>• Submit a plan to NRC describing what is to be done with the BLM well screened in the PZA; and</li> <li>• Document the BLM's concurrence with the plan.”</li> </ul>
10.13	<p>Facility and Wellfield Inspection. Injection manifold pressures and flow rates shall be measured and recorded daily by the in-line computer system and/or Wellfield Operator. During wellfield operations, injection pressures shall not exceed the maximum operating pressure as specified in Section 3.1.3.3 of the approved license application. To the extent possible, the daily inspections shall include visual inspections and document leaks or other abnormalities in the wellfield piping, wellheads, or header houses in accordance with Section 3.1.6 of the approved license application. The licensee shall conduct the weekly in-plant inspection and audit programs described in Section 5.3.1 of the approved license application. In addition, as described in Section 5.7 of the approved license application and supplements, the RSO shall document that radiation control practices are being implemented appropriately. Requirements for inspections of the storage pond are listed in LC 10.9.</p>	<p>The requirements for this L.C. are contained in the approved license application in Sections 3.1.3.3, 3.1.6, 5.3.1 and 5.7. Therefore, delete the unnecessary L.C. (10.13) because this issue is adequately handled in the TR.</p>
10.14	<p>The licensee will use calibrated radiation instruments that can measure the full range of radiation exposure rates or dose rates for radiological parameters that are reasonably expected at an ISR facility to ensure the magnitude and extent of radiation levels are measured in accordance with 10 CFR 20.1501(a)(2)(i). The instruments used to measure airborne concentrations of radioactive materials will allow for a lower limit of detection (LLD), as described in Regulatory Guide 8.30 (as revised), to provide a 95 percent confidence that measurements are in conformance with 10 CFR 20.1201, 20.1204, 20.1301, 20.1501, and 20.1502.</p>	<p>No comment.</p>

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
10.15	The licensee shall conduct radiological characterization of airborne samples for natural U, Th-230, Ra-226, Po-210, and Pb-210 for each restricted area air particulate sampling location at a frequency of once every six months for the first two years, and annually thereafter to ensure compliance with 10 CFR 20.1204(g). The licensee shall also evaluate changes to plant operations to determine if more frequent radionuclide analyses are required for compliance with 10 CFR 20.1204(g).	No comment.
10.16	The licensee shall ensure radiation safety training is consistent with Regulatory Guides 8.13, "Instruction Concerning Prenatal Radiation Exposure," (as revised) and 8.29, "Instruction Concerning Risks from Occupational Radiation Exposure," (as revised) in addition to the requirements in Section 2.5 of Regulatory Guide 8.31 (as revised), and as described in Section 5.5 of the approved application, or NRC-approved equivalent.	No comment.
10.17	The licensee shall conduct a ground water detection monitoring program for the storage pond that meets requirements of Criteria 5 and 7A of 10 CFR Part 40, Appendix A. The elements in this program will be documented in the licensee's SOPs.	No comment.
10.18	<p>Emission Controls (Dryer). The licensee shall maintain effluent control systems as specified in Sections 3.2.1.4., and 5.7.1.1 of the approved license application, with the following exception:</p> <p>If any of the yellowcake emission control equipment fails to operate within specifications set forth in the SOPs, the drying and packaging room shall immediately be closed-in as an airborne radiation area and heating operations shall be switched to cool down, and packaging operations shall be temporarily suspended. Packaging operations shall not be resumed until the vacuum system is operational to draw air into the system.</p>	No comment.

Draft LC#	Draft License Condition	AUC Comments
10.19	<p>All liquid effluents from process buildings and other process waste streams, with the exception of sanitary wastes, shall be returned to the process circuit or disposed of as allowed by NRC regulations. Additionally, the licensee is authorized to dispose of process solutions, injection bleed, and restoration brine using deep well injection, as permitted by WDEQ and described in the approved license application.</p> <p>The licensee will obtain the necessary permits and construct a minimum of two Class I UIC deep disposal wells prior to the commencement of operations of the Reno Creek Project. The licensee shall ensure the deep disposal wells shall have enough capacity to handle the disposal of the total liquid effluent generation as stated in Section 3.1.8 of the approved license application. The licensee will ensure adequate deep well disposal capacity exists to dispose of liquids under normal operating conditions during production, production and restoration, and restoration phases as stated in the approved license application. The licensee will notify the NRC Headquarters PM by telephone or electronic mail (email) within 24 hours if a disposal well is shut down and becomes inoperable, with the exception of routine maintenance or required testing that is completed within 48 hours of shutdown. If necessary, the licensee will use additional deep well capacity, surge tanks, or reduce and/or cease injection activities until the operation of the disposal well is restored.</p> <p>The licensee will notify the NRC Headquarters PM by telephone or email when the disposal well is placed back into service and report any repairs or service completed on the well that is not associated with routine maintenance. The licensee shall maintain a record of the volumes of solution disposed in each disposal well and submit this information in the annual monitoring report.</p>	<p>Please reference the Disposition discussion contained in Mr. Chad Glenn's memorandum (ML15113B306) on the March 31, 2015 Public Meeting in Section 2(h) Draft SER Section 4.2.3 (TR Section 4.3.5)(12/2014 Revised RAI Response 40), Disposal Capacity</p> <p>Disposition:  "AUC agreed to revise the TR to include AUC's commitment to operate its production, including the generation of wastewater requiring disposal in Deep Disposal Wells, to levels that AUC's Deep Disposal Well capacity can handle within permit limits. In the event that some part of AUC's Deep Disposal Well capacity becomes unavailable, AUC will reduce its production rate to restore its ability to dispose of all wastewater. This issue is open pending NRC staff's verification that the revised TR incorporates this AUC commitment."</p> <p>AUC believes that only one DDW is required for initial startup of operations since NRC staff agreed in the Public Meeting with AUC's commitment to reduce its production rate as necessary in the event</p>

Draft LC#	Draft License Condition	AUC Comments
10.19 (Cont.)		<p>of a reduction in DDW capacity. AUC will include this commitment in the approved license application.</p> <p>Please revise the first sentence of the second paragraph as follows: "The licensee will obtain the necessary permits and construct one Class I UIC deep disposal well prior to the commencement of operations of the Reno Creek Project."</p>
<b>Section 11: Monitoring, Recording and Bookkeeping Requirements</b>		
<b>Standard Conditions</b>		
11.1	<p>In addition to reports required to be submitted to NRC staff or maintained on-site by the applicable parts of Title 10 of the Code of Federal Regulations, the licensee shall prepare the following reports related to operations at the facility:</p> <p>A. A quarterly report that includes a summary of the excursion indicator parameter concentrations, corrective actions taken, and the results obtained for all wells that were on excursion status during that quarter. This report shall be submitted to NRC within 60 days following completion of the reporting period.</p> <p>B. A quarterly report summarizing daily flow rates and pressures for each injection manifold within the operating system. This report shall be made available for inspection upon request.</p> <p>C. A semi-annual report that discusses: status of Production Units (or wellfields if appropriate) in operation (including last date of lixiviant</p>	No comment.

Draft LC#	Draft License Condition	AUC Comments
11.1 (Cont.)	<p>injection), progress of Production Units (wellfields) in restoration, status of any long term excursions and a summary of the mechanical integrity tests (MITs) during the reporting period. This report shall be submitted to NRC within 60 days following completion of the reporting period.</p> <p>D. Consistent with Regulatory Position 2 of Regulatory Guide 4.14 (as revised), a semiannual report that summarizes the results of the operational effluent and environmental monitoring program. For this program, the nearby water supply wells are those within two kilometers (km) of the perimeter ring monitoring wells for all Production Units undergoing recovery operations or restoration. The report will include results of all wells, including industrial wells, and surface water sampling, if available, in accordance with the approved license application. This report shall be submitted to NRC within 60 days following completion of the reporting period.</p> <p>E. An annual report pursuant to LC 9.4(E).</p> <p>F. An annual report that summarizes modifications to the inventory of nearby water supply wells and land-use survey within two km of any Production Unit. This report shall be submitted to NRC within 90 days following completion of the reporting period.</p>	
11.2	<p>The licensee shall submit the results of at least an annual review of the radiation protection program performed in accordance with 10 CFR 20.1101(c). This review shall include the content and implementation of the radiation protection program. Results shall include an analysis of dose to individual members of the public consistent with 10 CFR 20.1301 and 10 CFR 20.1302. This report shall be submitted to NRC within 90 days following completion of the reporting period.</p>	No comment.

Draft LC#	Draft License Condition	AUC Comments
11.3	<p>Establishment of Background Water Quality. Prior to injection of lixiviant in a Production Unit, the licensee shall establish background water quality data for the ore zone and overlying aquifers. The background water quality sampling shall provide representative baseline data and establish ground water protection standards and excursion monitoring upper control limits, as described in Section 5.7.8 of the approved license application and this license condition. The data for each Production Unit shall consist, at a minimum, of the following sampling and analyses:</p> <p>A. Ore Zone. To establish a Commission-approved background concentration pursuant to Criterion 5B(5)(a) of 10 CFR Part 40 Appendix A, samples shall be collected from production and injection wells at a minimum density of one production or injection well per four acres of wellfield production area, or, if a wellfield production area is sufficiently isolated from the other wellfield production areas in the Production Unit, a minimum of two wells. Wells selected for the baseline data will be the same ones used to measure restoration success and stabilization.</p> <p>B. Perimeter Monitoring Wells. Samples shall be collected from all perimeter monitoring wells that will be used for the excursion monitoring program. The perimeter wells will be installed for a Production Unit in accordance with information presented in Sections 3.1.6 and 5.7.8.1.3 of the approved license application with the following qualifications: The distance to and spacing of the perimeter wells will be 400 feet in both fully saturated and partially saturated portions of the aquifer; and the perimeter wells will be partially penetrating at the horizon corresponding to the nearest inject/production wells. In no case will the perimeter monitoring wells be installed outside of the exempted aquifer as defined by the Class III UIC permit issued by the WDEQ.</p>	<p>In section (A) replace the term "ore zone" with "Production Zone Aquifer" in the first sentence to be consistent with the terminology in the approved license application.</p> <p>To be consistent with the approved license application, Section 5.7.8.1.3, in section (E) replace the term "the mean values" in the second sentence with the term "established based on a statistically valid analysis of the data". Revise the sentence as follows: "For the perimeter ring monitoring wells (Section B) and monitoring wells in the overlying aquifer (Section C), the background levels shall be established based on a statistically valid analysis of the data on a parameter-by-parameter, well-by-well, Production Unit or sub-set of the Production Unit basis, as deemed appropriate, in accordance with Section 5.7.8.1 of the approved license application."</p> <p>In section (E) replace the term "ore zone" with "Production Zone Aquifer" in the fourth sentence to be consistent with the terminology in the approved license application.</p>

Draft LC#	Draft License Condition	AUC Comments
11.3 (Cont.)	<p>C. Overlying Aquifer. Samples shall be collected from all monitoring wells in the first overlying aquifer at a minimum density of one well per four acres of Production Unit.</p> <p>D. Sampling and Analyses. Four samples shall be collected from each well to establish background levels. The sampling events shall be at least 14 days apart. The samples shall be analyzed for parameters listed in Table 2.7B-22 in Addendum 2.7-B of the approved license application. The third and fourth sample events can be analyzed for a reduced list of parameters; the parameters that can be deleted from analysis are those below the minimum analytical detection limits (MDL) during the first and second sampling events provided the MDLs meet the data quality objectives for the sampling.</p> <p>E. Background Water Quality. For the perimeter ring monitoring wells (Section B) and monitoring wells in the overlying aquifer (Section C), the background levels shall be the mean values on a parameter-by-parameter, well-by-well, Production Unit or sub-set of the Production Unit basis, as deemed appropriate, in accordance with Section 5.7.8.1 of the approved license application. The UCLs for monitoring wells in the perimeter ring and overlying aquifers are established per LC 11.4. For the ore zone monitoring wells, the background levels shall be established on a parameter-by-parameter basis using either the Production Unit, sub-set of the Production Unit or well-specific mean value. The established background value for each parameter shall be based on a statistically valid analysis of the data, in accordance with Section 5.7.8.1.2 of the approved license application.</p>	<p>Revise the sentence as follows: "For the Production Zone Aquifer monitoring wells, the background levels shall be established on a parameter-by-parameter basis using either the Production Unit, sub-set of the Production Unit or well-specific mean value."</p>

Draft LC#	Draft License Condition	AUC Comments
11.4	Establishment of UCLs. Prior to injection of lixiviant into a Production Unit, the licensee shall establish excursion control parameters and their respective UCLs in the designated overlying aquifer and perimeter monitoring wells in accordance with Section 5.7.8.1.5 of the approved license application. The default excursion parameters for wells in the ore zone and overlying aquifer are chloride, conductivity, and total alkalinity. The UCLs shall be established for each excursion control parameter and for each well, Production Unit or subset of the Production Unit, as appropriate, based on the mean plus five standard deviations of data collected for LC 11.3. The UCL for chloride can be set at the background mean concentration plus either five standard deviations or 15 mg/l, whichever is higher.	<p>Replace the term "ore zone" with "Production Zone Aquifer" in the third sentence to be consistent with the terminology in the approved license application.</p> <p>Revise the sentence as follows: "The default excursion parameters for wells in the Production Zone Aquifer and overlying aquifer are chloride, conductivity, and total alkalinity."</p>
11.5	Excursion Monitoring. Monitoring for the excursion monitoring program shall be conducted twice monthly (semi-monthly) and at least 10 days apart for wells installed under LC 11.3 (B and C). If, at any monitoring well during a semi-monthly sampling event, the concentrations of any two excursion indicator parameters exceed their respective UCL or any one excursion indicator parameter exceeds its UCL by 20 percent, then the excursion criterion is exceeded and a verification sample shall be taken from that well within 48 hours after results of the first analysis are received. If the verification sample confirms that the excursion criterion is exceeded, then the well is placed on excursion status. If the verification sample does not confirm that the excursion criterion is exceeded, a third sample shall be taken within 48 hours after results of the first verification sampling are received. If the third sample shows that the excursion criterion is exceeded, the well shall be placed on excursion status. If the third sample does not show that the excursion criterion is exceeded, the first sample shall be considered to be an error and routine excursion monitoring is resumed (the well is not placed on excursion status).	No comment

Draft LC#	Draft License Condition	AUC Comments
11.5 (Cont.)	<p>Upon confirmation of an excursion, the licensee shall notify NRC as stated below, implement corrective action, and increase the sampling frequency for the excursion indicator parameters at the well on excursion status to at least once every seven days. Corrective actions for confirmed excursions may be, but are not limited to, those described in Section 5.7.8.1.6 of the approved license application. An excursion is considered corrected when concentrations of all indicator parameters defining the excursion status are at or below the UCLs defined in LC 11.4 for three consecutive weekly samples.</p> <p>For Production Units located in an area in which the uppermost aquifer, the “SA Aquifer”, is comprised of saturated unconsolidated alluvium, the licensee will include monitoring wells in the SA Aquifer in that area of the wellfield as part of the excursion monitoring program as described above. The wellfield data package must include sufficient justification on the locations, baseline sampling if the frequency is less than quarterly and operational sampling if the frequency is less than semi-monthly for wells in the uppermost aquifer. The justification must demonstrate that the wells provide early detection of a release (including a surficial release).</p> <p>If a vertical excursion is detected during operations, then injection of lixiviant into the wellfield production area surrounding the monitoring well will cease until the licensee demonstrates to the satisfaction of NRC that the vertical excursion is not attributed to leakage through any abandoned drill hole.</p> <p>If an excursion is not corrected within 60 days of the initial confirmation, the licensee shall either:</p>	

Draft LC#	Draft License Condition	AUC Comments
11.5 (Cont.)	<p>(a) terminate injection of lixiviant within the Production Unit, or a portion of the Production Unit provided the licensee demonstrates to NRC that only a portion of the Production Unit is within the area of influence for the excursion) until the excursion is corrected; or</p> <p>(b) increase the financial surety in an amount to cover the full third-party cost for correcting and cleaning up impacts that may be attributed to the excursion. The surety increase shall remain in force until the NRC has verified that the excursion has been corrected and appropriate remedial actions have been undertaken. The written 60-day excursion report shall identify which course of action the licensee is taking if the excursion has not been corrected. Under no circumstances does this condition eliminate the requirement that the licensee remediate the excursion to meet ground water protection standards as required by LC 11.3.</p>	
11.6	<p>Until license termination, the licensee shall maintain documentation on spills of source or byproduct materials (including process solutions) and process chemicals. Documented information shall include, but not be limited to: date, spill volume, total activity of each radionuclide released, radiological survey results, soil sample results (if taken), corrective actions, results of post remediation surveys (if taken), a map showing the spill location and the impacted area, and an evaluation of NRC reporting criteria.</p> <p>The licensee shall have written procedures used for evaluating the consequences of the spill or incident/event against 10 CFR Part 20 Subpart M and 10 CFR 40.60 reporting criteria. If the criteria are met, then the licensee will report the spill or incident/event to the NRC Operations Center, as required.</p> <p>If the licensee is required to report to a State or other Federal agency incidents/events that may have an impact on the environment, including</p>	No comment

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
11.6 (Cont.)	wellfield excursions or spills of source, byproduct material, and/or process chemicals, the licensee shall submit a report to the NRC Headquarters PM by telephone or email within 24 hours. This notification shall be followed, within 30 days of the notification, by submittal of a written report to NRC Headquarters in accordance with LC 9.3, detailing conditions leading to the spill or incident/event, corrective actions taken, and results achieved.	
<b>Section 12: Preoperational Conditions</b>		
<i>Standard Conditions</i>		
12.1	Prior to commencement of operations, the licensee shall obtain all necessary permits, licenses and approvals from the appropriate regulatory authorities. The licensee shall submit a copy of the permits it has obtained from other regulatory agencies for any effluent or waste disposal that includes treated or non-treated byproduct material, as well as documents clearly delineating the approved aquifer exemption areas and boundaries for the Class III UIC wells to the NRC.	No comment.
12.2	Prior to commencement of operations, the licensee shall coordinate critical emergency response requirements with local authorities, fire department, medical facilities, and other emergency services. The licensee shall document these coordination activities and maintain such documentation on-site.	No comment.
12.3	Prior to commencement of operations, the licensee shall identify the location, screen depth, and estimated pumping rate of any new water supply well or new use for an existing well within two km of a proposed Production Unit, as measured from the perimeter monitoring well ring, since the application was submitted to the NRC. The licensee shall evaluate the impact of ISR operations and recommend any additional monitoring or other measures to protect ground-water users. The evaluation shall be submitted to the NRC staff for review and verification at least 30 days prior to the expected commencement of operations.	No comment.

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
12.4	Prior to commencement of operations, the licensee shall submit the qualifications of radiation safety staff members, including the qualifications and responsibilities of a designee, and the policy on the work situations for a declared pregnant worker, for NRC review and verification.	No comment.
12.5	Prior to commencement of operations, the licensee shall submit a copy of the solid byproduct material disposal agreement to the NRC.	No comment.
12.6	<p>The licensee shall not commence operations until the NRC performs a preoperational inspection to confirm, in part, that written operating procedures and approved radiation safety and environmental monitoring programs are in place, and that preoperational testing is complete.</p> <p>The licensee should inform the NRC, at least 90 days prior to the expected commencement of operations, to allow for sufficient time for NRC to plan and perform the preoperational inspection.</p>	No comment.
<b><i>Facility Specific Conditions</i></b>		
12.7	Prior to the preoperational inspection, the licensee shall develop a survey program that will meet the requirements of 10 CFR Part 20, Subpart F to detect beta-gamma contamination on personnel exiting restricted areas and to detect beta-gamma contamination in unrestricted and restricted areas. The licensee shall provide, for NRC staff review and approval, the surface contamination detection capability (scan MDC) of the radiation survey meters used in surveys for releasing equipment and materials to unrestricted use or personnel contamination. In the scanning mode, the detection capability for any expected alpha and beta radiation shall be provided in terms of dpm per 100 cm <sup>2</sup> .	No comment.
12.8	Prior to the preoperational inspection, the licensee shall submit to the NRC staff, for review and verification, procedures by which it will ensure that unmonitored employees will not exceed 10 percent of the dose limits in 10 CFR Part 20, Subpart C.	No comment.

<b>Draft LC#</b>	<b>Draft License Condition</b>	<b>AUC Comments</b>
12.8 (Cont.)		
12.9	At least 60 days prior to the preoperational inspection, the licensee will submit a completed Quality Assurance Plan (QAP) for NRC staff review and verification. The QAP will include the requirements in 10 CFR 20.1703(c)(4)(vii), and be consistent with guidance for a Quality Assurance Project Plan in Regulatory Guide 4.15 (as revised). The portion of the QAP fulfilling requirements of 10 CFR 20.1703(c)(4)(vii) may be included as a section or attachment in the applicable SOP(s).	No comment.
12.10	Prior to the preoperational inspection, the licensee will provide to the NRC written SOPs required for LC 10.4, which will include procedures for the management of liquid byproduct material in the event of a pond leak.	No comment.
12.11	Prior to construction of the storage pond, the licensee shall submit, for NRC review and verification, a ground water detection monitoring program plan for the retention pond that meets requirements of Criteria 5 and 7A of 10 CFR Part 40, Appendix A.	No comment.
12.12	At least 90 days prior to the preoperational inspection, the licensee shall submit its analysis of the meteorological data collected to demonstrate long-term meteorological conditions at the Reno Creek ISR Project. The licensee shall continue to collect meteorological data on a continuous basis at a data recovery rate of at least 90 percent and may not commence operations until the data collected are verified in writing by NRC headquarters staff to be representative of long-term meteorological conditions at the Reno Creek ISR Project. The data collected on-site shall include, at a minimum, wind speed, wind direction, an annual wind rose and a summary of the stability classification.	<p>Delete the unnecessary L.C. (12.12) because this issue was adequately handled in an RAI response.</p> <p>Please reference the Disposition discussion contained in Mr. Chad Glenn's memorandum (ML15113B306) on the March 31, 2015 Public Meeting in section 3(c) Additional Meteorology RAI identified in March 26, 2014 Public Meeting Meteorological Representativeness. The disposition statement reads: "This issue is closed based on information provided in</p>

Draft LC#	Draft License Condition	AUC Comments
12.12 (Cont.)		<p>AUC's December 2014 revised RAI response regarding meteorological representativeness."</p> <p>In addition, on July 23, 2015, NRC staff rendered a decision to remove this same license condition from Strata Energy, Inc. (Strata), Materials License SUA-1601. In the decision contained in Accession Number ML15197A102 NRC staff concludes "The NRC staff has verified that meteorological data collected by Strata from 2010 through 2013 are representative of long-term meteorological conditions at the Ross ISR Project thus satisfying requirements of license condition 12.13." The statistical analyses presented by Strata which lead the NRC staff to this conclusion are identical to the analyses presented by AUC in its RAI discussion that the meteorological data collected at the Reno Creek ISR Project represent long-term meteorological conditions at the site.</p>
12.13	The licensee shall complete and submit to the NRC, sample results to complete the preoperational sampling of wells identified within two km of the Reno Creek License area.	No comment.
12.14	The licensee shall complete and submit to the NRC, sample results to replace the first two sampling events for the site characterization (pre-operation sampling) at Well PZM2.	No comment.

Draft LC#	Draft License Condition	AUC Comments
12.15	The licensee shall submit to the NRC, for review and verification, its method for determining with specificity the maximum pressure for a header house. The maximum pressure should include a factor of safety.	<p>AUC proposes adding the following maximum injection pressure calculation method to TR Section 3.1.3.3, rather than including as a license condition.</p> <p>Example maximum injection pressure calculation:  Maximum Injection Pressure = <math>S_f * D_e * (FFP - V_g)</math>  Where:  <math>S_f</math> = safety factor; 90%  <math>D_e</math> = depth of screen in feet; 310 ft.  <math>FFP</math> = Formation Fracture Pressure; 0.8 psi/ft.  <math>V_g</math> = vertical pressure gradient of water; 0.433 psi/ft.  <math>MIP = 0.90 * 310 \text{ ft.} * (0.8 - 0.433) = 102 \text{ psi}</math></p> <p>Delete this L.C. (12.15) because this issue will be adequately handled in the TR.</p>
12.16	Prior to commencement of operations, the licensee shall collect twelve months of environmental samples from air monitor stations (AM-7 and AM-8) and a third round of vegetation samples and analysis. The samples from air monitor stations AM-7 and AM-8 will include air particulate, air radon, direct radiation, and soil. The licensee will also provide an updated Preoperational Monitoring Radiological Report that will include the twelve months of samples and results from air monitor stations AM-7 and AM-8,	No comment.

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	as well as the third round of vegetation samples and results prior to the preoperational inspection.	
12.17	Prior to the construction of the storage pond, the licensee shall submit a copy of the quality control plan for NRC review and verification.	<p>Delete the unnecessary L.C. (12.17) because this issue is adequately handled in the TR.</p> <p>Please reference the Disposition discussion contained in Mr. Chad Glenn's memorandum (ML15113B306) on the March 31, 2015 Public Meeting in Section 2(g) Draft SER Section 4.2.3 (TR Section 4.3.5) (12/2014 Revised RAI Response 39), Quality Control for Pond Construction.</p> <p>Disposition:  "AUC agreed to provide above information and revise the TR to include a synopsis of the backup pond QC program. This synopsis will describe items in light of Reg. Guide 3.11 as part of AUC's site wide project construction QC plan. AUC also agreed to notify NRC by letter when the Site wide QC plan, including Pond specific items, is available for NRC inspection prior to construction. This issue is open pending AUC's submittal of this information and NRC staff's verification that the revised TR includes this AUC commitment. AUC plans to provide this information in the late April 2015 timeframe."</p>

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12.17 (Cont.)		<p>As discussed and agreed to in the Public Meeting our Engineering Procurement Construction Management (EPCM) firm will integrate a Quality Control (QC) program for pond construction in accordance with guidance provided in Reg Guide 3.11 into its site wide QC program. The site wide QC requirements are embedded into the construction specifications that are developed as part of the final project engineering design package, but before pond construction begins. Prior to pond construction, AUC will notify NRC staff when the site wide QC program is available at the site for inspection. In addition AUC will add text to the approved license application in TR Section 4.3.5 as a commitment by AUC to comply with Regulatory Guide 3.11 requirements. The synopsis of the backup pond QC program was submitted to NRC staff in the April 2015 submittal "Responses to Open_Confirmatory Items".</p> <p>Since no separate backup pond quality control plan will be available, this L.C. should be deleted.</p>