



State of Utah

SPENCER J. COX  
Governor

DEIDRE HENDERSON  
Lieutenant Governor

Department of  
Environmental Quality

Kimberly D. Shelley  
Executive Director

DIVISION OF WASTE MANAGEMENT  
AND RADIATION CONTROL

Douglas J. Hansen  
Director

July 27, 2021

David Frydenlund  
Senior Vice President General Counsel and Corporate Secretary  
Energy Fuels Resources (USA) Inc.  
225 Union Boulevard, Suite 600  
Lakewood, CO 80228

RE: Radioactive Material License Number UT 1900479, Amendment 10

Dear Mr. Frydenlund:

Please find enclosed the Utah Radioactive Material License Number UT 1900479, Amendment Number 10 for Energy Fuels Resources (USA) Inc.

If you have any questions, please call Ryan Johnson at (801) 536-4255.

Sincerely,

Douglas J. Hansen, Director  
Division of Waste Management and Radiation Control

DJH/RMJ/as

Enclosure: Utah Radioactive Material License Number UT 1900479, Amendment Number 10  
(DRC-2021-005166)

c: Mike Moulton, Interim Health Officer, San Juan County Public Health Department  
Ronnie Nieves, Environmental Health Director, San Juan County Public Health Department  
Russell Seeley, UDEQ District Engineer  
Logan Shumway, Manager, Energy Fuels White Mesa Uranium Mill

DRC-2021-005164

**UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL  
RADIOACTIVE MATERIALS LICENSE**

Pursuant to Utah Code Ann. Title 19, Chapter 3 and the Radiation Control Rules, Utah Administrative Code R313, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material designated below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This licensee is subject to all applicable rules, and orders now or hereafter in effect and to any conditions specified below.

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	LICENSEE	)	3. License Number UT 1900479
		)	Amendment # 10
1. Name	Energy Fuels Resources (USA) Inc.	)	*****
2. Address	225 Union Boulevard, Suite 600 Lakewood, CO 80228	)	4. Expiration Date January 17, 2028
		)	*****
		)	5. License Category 2-b

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6. Radioactive material (element and mass number)	7. Chemical and/or physical form	8. Maximum quantity licensee may possess at any one time
Natural Uranium, 11e.(2) By-product Material, Approved Alternate Feed Material	Any	Unlimited

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**SECTION 9: ADMINISTRATIVE CONDITIONS**

9.1 The authorized place of use shall be the licensee's White Mesa uranium milling facility, located in San Juan County, Utah. The Mill facility is located in sections 28, 29, 32, and 33 T37S, R22E Salt Lake Base and Meridian, San Juan County, Utah. Within San Juan County, the White Mesa uranium mill is located on fee land and mill site claims, covering approximately 5,415 acres encompassing all or part of Sections 21, 22, 27, 28, 29, 32, and 33 of T37S, R22E, and Sections 4, 5, 6, 8, 9, and 16 of T38S, R22E Salt Lake Base and Meridian. *[Applicable UDRC Amendment: 8 Renewal] [Applicable UDWMRC Amendment:10]*

9.2 All written notices and reports to the Director required under this license, with the exception of incident and event notifications under R313-15-1202 and R313-19-50 requiring telephone

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notification, shall be addressed to the Director, Utah Division of Waste Management and Radiation Control, Utah Department of Environmental Quality, 195 North 1950 West, P.O. Box 144880, Salt Lake City, UT 84114-4850. All written submittals to the Director shall include at the time of submittal a searchable electronic copy, as required by R313-12-111. Incident and event notifications that require telephone notification shall be made to the Director at (801) 536-0200 during normal business hours or after hours to the DEQ Duty Officer at (801) 536-4123. *[Applicable UDRC Amendment: 8 Renewal]*

9.3 RESERVED [License Condition moved to SECTION 13: CLOSE OUT CONDITION]

9.4 A. The licensee may, without prior Director-approval, and subject to the conditions specified in Part B of this condition:

- (1) Make changes in the facility or process, as presented in the application.
- (2) Make changes in the procedures presented in the application.
- (3) Conduct tests or experiments not presented in the application.

B. The licensee shall file an application for an amendment to the license, unless the following conditions are satisfied.

- (1) The change, test, or experiment does not conflict with any requirement specifically stated in this license, or impair the licensee's ability to meet all applicable regulations.
- (2) There is no degradation in the essential safety or environmental commitments in the license application or provided by the approved reclamation plan.
- (3) The change, test, or experiment is consistent with the conclusions of actions analyzed in the most recent Environmental Assessment conducted by the Division from the last license renewal and/or major license amendment.

C. The licensee's determinations concerning Part B 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 and shall be responsible for managerial and financial approval 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 Mill Radiation Safety Officer (RSO) or equivalent, 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 health physics, groundwater hydrology, surface-water hydrology, specific earth sciences, and other technical disciplines. Temporary members or

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permanent members, other than the three above-specified individuals, may be consultants.

- D. 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 that changes are in compliance with the requirements referred to in Part B of this condition. The licensee shall furnish, in an annual report to the Director, 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 Director changed pages to the Operations Plan and Reclamation Plan of the approved license application to reflect changes made under this condition. Annual reports shall address the previous calendar year and be submitted no later than March 31 each year.

The licensee's SERP shall function in accordance with the most current version of the standard operating procedures submitted by letter to the Director dated February 27, 2007. *[Applicable UDRC Amendment 3]*  
*[Applicable UDRC Amendment: 8 Renewal]*

- 9.5 The licensee shall at all times maintain a financial surety, approved by the Director, consistent with R313-24-4 (10 CFR 40, Appendix A, Criteria 9 and 10, as incorporated by reference), that is adequate to cover the estimated costs, accomplished by a third party, for decommissioning and decontamination of the mill and mill site, reclamation of any tailings or 11e.(2) byproduct material and plant-generated waste disposal areas, groundwater remediation as required by License Condition 10.21, and the long-term surveillance fee. The Licensee is prohibited from use and/or operation of any conventional or nonconventional impoundment, or related new permanent fixture or facility not already accounted for by the currently approved surety, without prior submittal and Director approval of written evidence of adequate financial surety. Within 60 calendar days of Director approval of a revised reclamation/decommissioning plan, the licensee shall submit written evidence of an adequate surety regarding the newly approved plan.

Annual updates to the surety amount, required by R313-24-4 (10 CFR 40, Appendix A, Criteria 9 and 10, as incorporated by reference), shall be submitted for Director approval by March 4 of each year. Within 30 calendar days of Director approval of an annual update of surety cost estimates, the licensee shall submit written evidence of adequate surety for Director approval.

Along with each proposed revision or annual update, the licensee shall submit supporting documentation showing a breakdown of the costs and the basis for the cost estimates with

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adjustments for inflation, maintenance of a minimum 25 percent contingency fee, changes in engineering plans, activities performed and any other conditions affecting estimated costs for site closure. The basis for the cost estimate is the current Director-approved reclamation/decommissioning plan or Director-approved revisions to the plan and guidance contained in NUREG-1620, "Standard Review Plan for the Review of a Reclamation Plan for Mill Tailings Sites under Title II of the Uranium Mill Tailings Radiation Control Act of 1978."

The currently approved surety instrument, a Performance Bond issued by Argonaut Insurance Company in favor of the Director, and the associated Standby Trust Agreement, shall be continuously maintained by the Licensee in an amount not less than the amount currently approved by the Director pursuant to the requirements of R313-24-4 (10 CFR 40, Appendix A, Criteria 9 and 10 as incorporated by reference).

The annual surety estimate shall also include all costs necessary to remediate any groundwater contamination required by License Condition 10.21, after facility closure, to be determined by the Director.

*[Applicable UDRC Amendment: 1][Applicable UDRC Amendment 3]*

*[Applicable UDRC Amendment: 8 Renewal][Applicable UDWMRC Amendment:10]*

- 9.6 Standard operating procedures (SOPs) shall be established and followed for all operational and non-operational activities involving radioactive material. Up-to-date copies of the SOPs shall incorporate operating instructions and appropriate safety precautions for licensed activities. SOPs shall be kept, maintained and made available to employees in the mill area to which it applies. The written SOPs established shall include activities of the radiation safety and environmental monitoring programs, the employee training program, a respirator protection program, operational procedures, analytical procedures, bioassay analyses, and instrument calibration.

At least annually, the uranium milling facility Radiation Safety Officer (RSO) shall review and approve in writing all procedures to determine their continued applicability to the RML license conditions, Utah rules and Federal regulations. Up-to-date copies of all operational and non-operational SOPs shall be submitted electronically to the Director by December 31st of each year. *[Applicable UDRC Amendment: 8 Renewal]*

- 9.7 Before engaging in any activity not previously assessed, the licensee shall ensure that all disturbances associated with the proposed development undertaken by the licensee, are completed in compliance with the following: (a) Utah's antiquities law in Utah Code Section 9-8-301 *et seq.* and its implementing regulations; (b) Utah's historic sites law in Utah Code Section 9-8-401 *et seq.* and its implementing regulations; and (c) the Utah Native American

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Grave Protection and Repatriation Act in Utah Code Section 9-9-401 *et seq.* and its implementing regulations, in accordance with the following specific conditions.

Before engaging in any activity not previously assessed, the licensee shall comply with the following specific requirements relating to operations and activities within the boundaries of the Mill facility defined in License Condition 9.1 that will result in a surface disturbance:

- Contract to complete a survey, as defined in Utah Code Section 9-8-302(21), if an acceptable survey does not already exist for the given area. This work shall be carried out by a person holding a principal investigator survey or excavation permit from the State of Utah's Public Lands Policy Coordinating Office.
- Report in writing the discovery of any archaeological resources as defined in Utah Code Section 9-8-302(4), which shall be deemed to include historical artifacts, ancient human remains and historic properties, to the State Historic Preservation Officer within 30 days of completion of the survey for review and submittal to the Utah State Historic Preservation Office ("SHPO") in accordance with Utah Code Section 9-8-404(1)(a)(ii).
- In the event of the discovery of possible, previously unknown or unidentified historical artifacts as defined in Utah Code Section 9-8-102(5), immediately cease any activity in the area of the discovery, at which point the newly discovered historical artifacts shall be collected, preserved and inventoried in a repository or curation facility with assistance from the SHPO in accordance with Utah Code Section 9-8-304(2)(c). No further disturbance shall occur until the licensee has received authorization from the Director to proceed.
- In the event the licensee knows or has reason to know that it has discovered ancient human remains, immediately cease any activity in the area of the discovery, make a reasonable effort to protect the remains discovered, and notify the Director and SHPO in accordance with Utah Code Section 9-9-403(4). Activity in the area may not resume until the licensee has fulfilled the requirements of Utah Code Sections 76-9-704 and 9-8-309 or has otherwise received authorization from the Director to proceed.

If historic properties, as defined by Utah Code Section 9-8-402(1)(b) and as further defined below, will be adversely affected by any proposed activity not previously assessed, the licensee shall avoid by project design, where reasonably feasible, any historic properties. For purposes of the License, "historic properties" shall include all archaeological sites designated as "contributing" in any previous archeological survey conducted and documented at the Mill site starting from 1978 Environmental Report for the White Mesa Uranium Project to the present time. Where it is not reasonably feasible to avoid an historic property, the licensee shall institute a data recovery program for it that is based on a research design that takes into account current U.S. Advisory Council on Historic Preservation's Archaeology Guidance. It is understood and agreed that it is not feasible to avoid any historic properties located in or

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- within 100 feet of borrow areas, stockpile areas, construction areas, or the perimeter of the reclaimed tailings impoundments. Therefore, disturbance of such historic properties is deemed unavoidable. Where disturbance of historic properties is unavoidable, such historic properties shall be recovered through archaeological excavation. Data recovery fieldwork shall be completed prior to the start of any project-related disturbance, but analysis and report preparation need not be complete prior to the time of disturbance. *[Applicable UDWMRC Amendment:9]*
- 9.8 The licensee is hereby authorized to possess byproduct material in the form of uranium mill tailings and other uranium byproduct material generated by the licensee's milling operations authorized by this license. Mill tailings shall not be transferred from the site without specific prior approval of the Director in the form of a license amendment. The licensee shall maintain a permanent record of all transfers made under the provisions of this condition. *[Applicable UDWMRC Amendment:10]*
- 9.9 The licensee is hereby exempted from the requirements of R313-15-902(5) for areas within the mill, provided that all entrances to the mill are conspicuously posted in accordance with R313-15-902(5) and with the words, "Any area within this mill may contain radioactive material".
- 9.10 Release of ore trucks and intermodal containers from the restricted area for restricted release shall be in accordance with Department of Transportation standards set forth in 49 CFR 173.443 or 49 CFR 173.428, as amended. Release of equipment or packages from the restricted area for unrestricted release shall be in accordance with Table 2 in the NRC Regulatory Guide 8.30 Rev. 1 "Health Physics Surveys in Uranium Recovery Facilities" dated May 2002, or NRC 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," dated May 1987, or suitable alternative procedures approved by the Director prior to any such release. *[Applicable UDRC Amendment: 8 Renewal]*
- 9.11 Reserved *[Applicable UDRC Amendment:8 Renewal]*
- 9.12 The Licensee shall at all times have a valid groundwater discharge permit issued by the Co-Director. No transfer of this License will be approved unless the Ground Water Quality Discharge Permit is also transferred. *[Applicable UDRC Amendment: 8 Renewal]*
- 9.13 The Licensee shall perform all decommissioning and reclamation activities in conformance to the currently approved Reclamation Plan. *[Applicable UDRC Amendment: 8 Renewal]*

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**SECTION 10: OPERATIONAL CONTROLS, LIMITS, AND RESTRICTIONS**

- 10.1 A. The mill production rate shall not exceed 4380 tons of yellowcake per year.
- B. The licensee may not dispose of any material on site that is not “byproduct material,” as that term is defined in 42 U.S.C. Section 2014(e)(2) (Atomic Energy Act of 1954, Section 11(e)(2) as amended).
- C. The licensee may not receive or process any alternate feed material without first applying for and obtaining approval of a license amendment. For all alternate feeds, the licensee shall demonstrate that it will comply with Condition 10.1(B). Any such demonstration shall include:
- (1) Demonstration of compliance with the NRC Regulatory Summary 2000-23 Recent Changes to Uranium Recovery Policy, November 30, 2000; and
  - (2) Demonstration of compliance with the November 22, 1999 Protocol for Determining Whether Alternate Feed Materials are Listed Hazardous Wastes, as approved by the Utah Division of Solid and Hazardous Waste (now Utah Division of Waste Management and Radiation Control) December 7, 1999.
- D. Maximum quantities of feed material stored on the mill site, including alternate feed materials or other ores, shall not exceed the total material storage quantity found in the currently approved mill surety pursuant to License Condition 9.5, without prior approval of the Director. The surety estimate shall clearly identify costs related to the various types of feedstock as funding for direct disposal of these materials in one of the impoundments in the situation the Director would be required to call for the surety.
- E. The licensee may not receive any alternate feed materials or other ores if those materials would cause the facility to exceed the conventional impoundment disposal capacity established by the currently approved conventional impoundments engineering design and construction reclamation plan and/or the annual surety report required by License Condition 9.5 without prior approval of the Director.  
*[Applicable UDRC Amendment: 2] [Applicable UDRC Amendment: 8 Renewal]*  
*[Applicable UDWMRC Amendment: 10]*
- 10.2 All liquid effluents from mill process buildings, with the exception of sanitary wastes, shall be returned to the mill circuit or discharged to a conventional or nonconventional impoundment. *[Applicable UDWMRC Amendment: 10]*



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- 10.3 Freeboard limits, stormwater and wastewater management for the tailings conventional and nonconventional impoundments shall be determined as follows:
- A. The Freeboard limit for Impoundment 1 shall be set annually in accordance with the procedures set out in Section 3.0 to Appendix E of the previously approved NRC license application, including the January 10, 1990 Drainage Report. Discharge of any surface water or wastewater from Impoundment 1 is expressly prohibited.
  - B. The freeboard limit for Impoundment 4B shall be recalculated annually in accordance with the procedures approved by the Director. Said calculations for freeboard limits shall be submitted as part of the Annual Technical Evaluation Report (ATER), as described in Condition 12.2 below.
  - C. The discharge of any surface water, stormwater or wastewater from Impoundments 3, 4A, and 4B shall only be through a Director authorized spillway structure.  
*[Applicable UDRC Amendment 3] [Applicable UDRC Amendment: 4] [Applicable UDRC Amendment:8 Renewal][Applicable UDWMRC Amendment:10]*
- 10.4 Disposal of material and equipment generated at the mill site shall be conducted as described in the licensee's submittals to the NRC dated December 12, 1994 and May 23, 1995, with the following addition:
- A. The maximum lift thickness for materials placed over tailings shall be less than 4-feet thick. Subsequent lifts shall be less than 2-feet thick. Each lift shall be compacted by tracking of heavy equipment, such as a Cat D-6, at least 4 times prior to placement of subsequent lifts.
- 10.5 In accordance with the licensee's submittal to the NRC dated May 20, 1993, the licensee is hereby authorized to dispose of 11e.(2) byproduct material generated at licensed in-situ recovery (ISR) [previously known as in-situ leach (ISL)] facilities as per 10 CFR 40 Appendix A, Criterion 2 and from other uranium recovery facilities, subject to the following conditions:
- A. Disposal of 11e.(2) byproduct material is authorized subject to the following conditions:
    - (1) 11e.(2) byproduct material is limited to 10,000 cubic yards total in aggregate annually generated at any source outside the State of Utah.

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- (2) Notwithstanding Item (1) above, 11e.(2) byproduct material is unlimited in quantity from any in-situ recovery source outside the State of Utah owned by the holder of this license or its affiliates.
- (3) Notwithstanding Item (1) above, disposal of 11e.(2) byproduct material is unlimited in quantity from any source located within the State of Utah.
- (4) Receipt of material is restricted to current available volume capacity accounted for in License Condition 9.5.
- B. All ISR contaminated equipment shall be dismantled, crushed, or sectioned to minimize void spaces. Barrels containing waste other than soil or sludges shall be emptied into the disposal area and the barrels crushed. Barrels containing soil or sludges shall be verified by the Licensee to be full prior to disposal. Barrels not completely full shall be filled with tailings or soil prior to disposal.
- C. All ISR byproduct material shall be buried in Impoundment No. 3 unless prior written approval is obtained from the Director for alternate burial locations.
- D. All disposal activities shall be documented and records thereof maintained on-site. The documentation shall include all items required by this License.
- E. Disposal Requirements for 11e.(2) byproduct material: the licensee shall perform byproduct material disposal activities in accordance with the current Standard Operating Procedure (SOP) for 11e.(2) byproduct material disposal. Said plan includes the following minimum provisions:
- (1) The material disposal area must be located on a tailings beach area of the conventional impoundment or on an area of the impoundment that is underlain by tailings sands;
  - (2) The elevation of the material disposal area will not exceed the plane or grade of the elevations of the uppermost flexible membrane liner of the conventional impoundment;
  - (3) (Reserved)
  - (4) Absence of void space inside barrels disposed, including physical verification before disposal; and
  - (5) Detailed engineering drawings which demonstrate:
    - a. There are at least 4 feet of tailings sands under the bottom of each disposal area; and

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- b. The bottom of each disposal area is located at least 12 feet from the sides or dikes of the impoundment.
- F. The Licensee shall notify the Director in writing at least 7 calendar days prior to the proposed scheduled date for disposal of any 11e.(2)\_byproduct material in the conventional impoundments.
- An annual summary of the amounts of 11e.(2) byproduct material disposed of from off-site generators shall be included in the Annual Technical Evaluation Report required in License Condition 12.2.  
*[Applicable UDRC Amendment: 4] [Applicable UDRC Amendment: 8 Renewal]*  
*[Applicable UDWMRC Amendment:10]*
- 10.6 The licensee is authorized to receive and process source materials from the Allied Signal Corporation's Metropolis, Illinois, facility in accordance with the amendment request to the NRC dated June 15, 1993.
- 10.7 The licensee is authorized to receive and process source material from Allied Signal, Inc. of Metropolis, Illinois, in accordance with the amendment request to the NRC dated September 20, 1996, and amended by letters to the NRC dated October 30, 1996 and November 11, 1996.
- 10.8 DELETED by DWMRC Reserved*[Applicable UDWMRC Amendment:10]*
- 10.9 The licensee is authorized to receive and process source material from Cabot Performance Materials' facility near Boyertown, Pennsylvania, in accordance with the amendment request to the NRC dated April 3, 1997, as amended by submittals to the NRC dated May 19, 1997 and August 6, 1997.  
*[Applicable NRC Amendments: 4]*
- 10.10 The Licensee is authorized to receive source material (the Silmet uranium bearing material) from the NPM Silmet OÜ Facility located near Sillamae, Estonia, in accordance with statements, representations, and commitments contained in the License Amendment Request submitted to the Director dated April 18, 2019.  
*[Applicable UDWMRC Amendment:10]*
- 10.11 The licensee is authorized to receive and process source material from Cameco Corporation's Blind River and Port Hope facilities, located in Ontario, Canada, in accordance with the amendment request to the NRC dated June 4, 1998, and by the submittals to the NRC dated September 14, 1998, September 16, 1998, September 25, 1998, October 7, 1998, and October 8, 1998.

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However, the licensee is not authorized to receive or process from these facilities, the crushed carbon anodes identified in these submittals, either as a separate material or mixed in with material already approved for receipt or processing.

- 10.12 The Licensee is authorized to receive source material (the Moffat Tunnel uranium bearing material) from the Union Pacific Railroad's Water Treatment Plant in Winter Park, Colorado, in accordance with statements, representations, and commitments contained in the License Amendment Request submitted to the Director dated December 2019.  
*[Applicable UDWMRC Amendment: 10]*
- 10.13 DELETED by DWMRC Reserved *[Applicable UDWMRC Amendment: 8 Renewal]*
- 10.14 DELETED by DWMRC Reserved *[Applicable UDWMRC Amendment: 8 Renewal]*
- 10.15 DELETED by DWMRC Reserved *[Applicable UDWMRC Amendment: 8 Renewal]*
- 10.16 DELETED by DWMRC Reserved *[Applicable UDWMRC Amendment: 8 Renewal]*
- 10.17 The licensee is authorized to receive and process source material from the Molycorp site located in Mountain Pass, California, in accordance with statements, representations, and commitments contained in the amendment request to the NRC dated December 19, 2000, and supplemental information in letters dated January 29, 2001, February 2, 2001, March 20, 2001, August 15, 2001, October 17, 2001, and November 16, 2001.  
*[Applicable NRC Amendment: 20] [Applicable UDWMRC Amendment: 8 Renewal]*
- 10.18 DELETED by DWMRC Reserved *[Applicable UDWMRC Amendment: 8 Renewal]*
- 10.19 The licensee is authorized to receive and process source material from Ponds 2 and 3 of the FMRI's Muskogee Facility located in Muskogee, Oklahoma, in accordance with statements, representations, and commitments contained in the amendment requests and submittals to the Director dated March 7, 2005, June 22, 2005, and April 28, 2006.  
*[Applicable UDRC Amendment: 2]*
- 10.20 The licensee is authorized to receive and process source material from Dawn Mining Company's Midnite Mine site in Wellpinit, Washington, in accordance with statements, representations, and commitments contained in the Amendment Request submitted to the Director, dated April 27, 2011 and submittals to the Director dated December 5, 2012, June 14, 2013, August 7, 2013. The Licensee is authorized to receive no more than 1,000 tons per

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year and a total limit of 4,500 tons (dry weight) under this license condition without prior approval from the Director.

- a. (1) Unless contained within a closed SuperSac or other container that is not damaged or leaking, Dawn Mining Uranium Material stored (stockpiled) at the Mill Site longer than 14 days shall be covered with a durable geomembrane cover resistant to damage by ultraviolet (UV) radiation and sufficient ballast shall be placed over the cover to prevent wind uplift of the cover during peak wind conditions at the site; and  
(2) If at any time, visible dust is observed to be originating from Uranium Material stored on site, the EFRI RSO or his or her authorized representative shall take actions within 30 minutes to stop the generation of visible dust."

*[Applicable UDRC Amendment: 7] [Applicable UDWMRC Amendment: 10]*

- 10.21 The licensee shall remediate in accordance with applicable rules and regulations any groundwater contamination found at or near the White Mesa facility in a manner and schedule approved by the Director. Any wastewater or contaminated groundwater generated, recovered, or produced by a remediation process or activity at the White Mesa facility shall be 11e.(2) byproduct material. As of May 1, 2017, groundwater contaminants that require remediation at or near the site include, but are not limited to: chloroform, carbon tetrachloride, dichloromethane, chloromethane, and nitrate.

*[Applicable UDWMRC Amendment: 8 Renewal]*

**SECTION 11: MONITORING, RECORDING, AND BOOKKEEPING REQUIREMENTS**

- 11.1 The results of sampling, analyses, surveys and monitoring, the results of calibration of equipment, reports on audits and inspections, all meetings and training courses required by this license and any subsequent reviews, investigations, and corrective actions, shall be documented. Unless otherwise specified in the State of Utah regulations all such documentation shall be maintained for a period of at least five (5) years.
- 11.2 The licensee shall implement an effluent and environmental monitoring program as described in Sections 2 through 7 of the NRC Regulatory Guide 4.14 *Radiological Effluent and Environmental Monitoring at Uranium Mills*, and as revised with the following modifications, additions and exceptions:
  - A. Stack sampling shall include a determination of flow rate.
  - B. Surface water samples shall also be analyzed semiannually for total and dissolved U-nat, Ra-226, Ra-228, Th-230 and Th-232, with the exception of the Westwater Creek, which shall be sampled annually for water or sediments and analyzed as above.

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A sediment sample shall not be taken in place of a water sample unless a water sample was not available.

- C. Groundwater sampling shall be conducted in accordance with the requirements in the current Utah Ground Water Discharge Permit No. UGW370004.
  - D. With the exception of groundwater sampling the licensee shall utilize lower limits of detection in accordance with Section 5 of the NRC Regulatory Guide 4.14, as amended, for analysis of effluent and environmental samples.
  - E. The inspections performed semiannually of the critical orifice assembly committed to in the submittal to the NRC dated March 15, 1986, shall be documented. The critical orifice assembly shall be calibrated at least every 2 years against a positive displacement Roots meter to obtain the required calibration curve.  
*[Applicable UDRC Amendment 3] [Applicable UDWMRC Amendment: 8 Renewal]*  
*[Applicable UDWMRC Amendment: 10]*
- 11.3 The licensee shall implement a monitoring program of the leak detection systems for Impoundments 4A and 4B in accordance with requirements of the Permit. The licensee shall also implement an operation, maintenance, and monitoring program of the leak detection systems for Impoundments 1, 2, and 3 as follows:
- A. The licensee shall maintain all leak detection system piping, including any access pipes, open, fully functional and free of soil, debris or detritus. All access pipes shall be capped to prevent inflow of rainwater, soil, debris, or detritus when not in use for monitoring or pumping. The licensee shall conduct annual video logs of said access pipes to demonstrate the physical condition of the system. In the event that the licensee determines any access pipe is blocked, partially blocked, or otherwise not fully functional, the licensee shall: 1) remove all blockages within 14 calendar days of discovery, and 2) submit a written report for Director approval within 30 calendar days of discovery.
  - B. Leak Detection System - The licensee shall measure and record the inches of water pressure head on the pump transducer in each of the tailings disposal impoundment leak detection system standpipes on a weekly basis in a manner approved by the Director. The transducer and pump will be placed as low as reasonably practical in the standpipe as approved by the Director. The system will be set such that the alarm will be triggered when the transducer senses a pressure of 2 inches of water head or greater, and the pump will turn on when the transducer senses a water head pressure on the transducer at or above the level for the impoundment specified in the following table:

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<b>Impoundment</b>	<b>Water Head Pressure on Transducer</b>
Impoundment 1	12 inches
<u>Impoundment 2</u>	18 inches
Impoundment 3	12 inches

- C. If fluid is present in the leak detection system (LDS) of any impoundment above the water head pressure on the transducer specified in the table set out in License Condition 11.3B, the licensee shall:
1. Pump the fluid from the LDS immediately upon discovery, to a water head pressure on the transducer at or below the level for the impoundment specified in the table set out in License Condition 11.3B.
  2. Immediately commence and continue daily monitoring of LDS water head pressure on the transducer, and volumes removed, until otherwise approved by the Director.
  3. Maintain the water head pressure on the transducer at or below the level for the impoundment specified in the table set out in License Condition 11.3(B).
  4. Return any LDS fluid pumped to an approved disposal impoundment.
- D. If fluid is pumped from an LDS, the licensee shall calculate the flow rate either by a flow meter or by dividing the recorded volume of fluid recovered by the elapsed time since fluid was last pumped or increases in the LDS fluid levels were recorded, whichever is the more recent. The licensee shall document the results of this calculation.
- E. If the flow rate calculated under License Condition 11.3(D) is greater than zero for 30 continuous calendar days, but does not exceed one gallon per minute, the licensee shall, unless it determines the root cause of the failure through other means, reduce the solution level in the Impoundment by up to 12 inches elevation to determine whether or not the reduction in solution elevation materially reduces the flow rate. If the flow rate is materially reduced, this will be considered to indicate that one or more liner repairs are required above the reduced elevation level, where exposure to wave action and the elements are most likely to have impacted the liner. If any such repairs are

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required, the licensee will submit a plan and schedule for Director approval for an investigation of the liner above such reduced solution level and for completion of such repairs.

If the licensee is unable to determine the root cause of the leak after following the steps described in this license condition, the licensee shall meet with the Director to determine whether or not any further actions are warranted and practicable in the circumstances.

F. Either of the following events shall constitute a violation of this License: 1. Failure to maintain the LDS fluid level elevation pursuant to License Condition 11.3(C)(1), above, and such failure is not rectified within two days after discovery; or 2. the flow rate calculated under License Condition 11.3(D) is equal to or greater than one gallon per minute. Immediately upon determination of such an event, the licensee shall:

- (1) Evaluate the root cause of the event and take appropriate and timely actions to mitigate the event and any consequent potential impacts;
- (2) Continue to measure and record LDS water head pressure on the transducer, and removed volume measurements daily until otherwise approved by the Director; and
- (3) Notify the Director by telephone within 48 hours, in accordance with License Condition 9.2, and submit a written report, for Director approval, within 30 calendar days of said telephone notice, in accordance with License Condition 9.2. The written report shall include a description of the mitigative action(s) taken and a discussion of the mitigative action results. In the event that mitigative actions have yet to be taken, the written report will include a detailed workplan and schedule.

G. In addition to the reporting required in License Condition 11.3(A), (B), (C), and (D), all sampling, analysis, and evaluation of LDS fluids shall be documented and all records retained onsite until license termination for Director inspection.

*[Applicable UDRC Amendment 3] [Applicable UDRC Amendment: 4]*

*[Applicable UDWMRC Amendment: 8 Renewal][Applicable UDWMRC Amendment:10]*

11.4 Annually, the licensee shall collect, during mill operations, a set of air samples covering eight hours of sampling, at a high collection flow rate (i.e., greater than or equal to 40 liters per minute), in routinely or frequently occupied areas of the mill. These samples shall be analyzed for gross alpha. In addition, sampling will be conducted when new feeds are received and prior to processing feeds when needed. If no new material is received after the initial sampling and characterization has taken place additional sampling is not required. The licensee shall



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analyze the mill feed or production product for U-nat, Th-230, Ra-226, and Pb-210 and use the analysis results to assess the fundamental constituent composition of air sample particulates.

*[Applicable NRC Amendment: 7] [Applicable UDWMRC Amendment: 10]*

- 11.5 Calibration of in-plant air and radiation monitoring equipment shall be performed as specified in the license renewal application, under Section 3.0 of the "Radiation Protection Procedures Manual," with the exception that in-plant air sampling equipment shall be calibrated at least quarterly and air sampling equipment checks shall be documented.
- 11.6 The licensee shall perform an annual ALARA audit of the radiation safety program in accordance with the NRC Regulatory Guide 8.31.
- 11.7 Settlement Monitoring Standard Operating Procedure - the licensee shall perform settlement monitoring for vertical settlement in the tailings management impoundment area in accordance with the currently Director approved Settlement Monitoring Standard Operating Procedure (SOP) The Licensee shall document settlement monitoring data and compare such data to previous data to track potential settlement. All data collected by the Licensee for these purposes shall be included in an annual report to be submitted to the Director, pursuant to License Condition 12.2. Said SOP includes the following minimum provisions:
- A. Require that settlement monitors (e.g., settlement stands) be promptly installed following placement of temporary cover over placed tailings;
  - B. Require installation of representative settlement monitoring stand(s) above any 11e.(2) byproduct material source disposal area that has been closed to further disposal pursuant to License Condition 10.5.A, or any area that reaches 22,500 square feet. There shall be at least one settlement monitoring stand for each byproduct material source disposal area, estimated to be about 22,500 square feet. Installation of said settlement monitoring stand and initial elevation survey shall be completed by the Licensee within 30 calendar days of completion of each byproduct material source disposal area;
  - C. Indicate that the licensee will utilize settlement monitoring devices and methods that are resistant to shifting in their positions as a result of such forces as frost heave, erosion, burrowing animals, or other environmental factors;
  - D. Include provisions to prevent man-caused damage to settlement monitoring devices, including, but not limited to vehicle and construction traffic damage. Such measures will include: 1) all equipment, procedures, and provisions needed to protect said

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settlement monitoring devices, 2) schedules for rapid verbal and written reporting of any such damage, and 3) corrective actions taken or to be taken by the Licensee to replace and/or repair said devices;

- E. Indicate that settlement monitors will be:
- (1) Initially surveyed by a Utah Licensed Professional Land Surveyor within, 30 calendar days of installation;
  - (2) Surveyed monthly; and
  - (3) Surveyed annually by a Utah Licensed Land Surveyor. Review of the data and an analysis shall be performed and certified by a Utah Licensed Professional Engineer and submitted annually as part of the ATER required by License Condition 12.2;
- F. Include procedures requiring that such settlement monitors be placed, surveyed, mapped, and maintained; that corrective action and maintenance activities be performed to maintain existing monitoring devices in a reliable, good working condition, as needed; that the addition, surveying and mapping of new settlement monitoring devices installed be documented; and that records be made of observations of site conditions as they relate to the conditions at and in the vicinity of the installed monitoring devices;
- G. Provide quantitative performance criteria and describe how such criteria will be used to evaluate vertical movement;
- H. Indicate that any settlement monitoring device that is irreparably damaged as a result of environmental stresses or through man-caused contact, including but not limited to impoundment construction or other operational equipment, shall be promptly replaced with an identical or equivalent monitoring device; and provisions provided to guide the interpretation of data from both the former and the replacement device;
- I. Indicate that where survey evidence suggests that significant apparent movement in a settlement monitor has occurred, in excess of the approved performance criteria, that the departure(s) will be investigated and explained, and errors corrected and resolved in a timely manner, subject to Director approval;
- J. Indicate that photographs shall be taken of the monitoring areas at least annually to document site and device conditions. Additionally, the SOP shall indicate that photographs shall be taken following any instances of unusually severe weather or incidents involving equipment if they result in physical damage or disturbance to any

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settlement monitoring device, or significant changes to the ground surface areas adjacent to or surrounding a settlement or displacement monitoring device;

- K. Include a list of records that will be prepared for documenting settlement data for each settlement monitoring device and related site observations and activities; and
- L. Indicate that results and records of settlement monitoring shall be submitted annually as part of the ATER required by License Condition 12.2.  
*[Applicable UDRC Amendment: 4] [Applicable UDWMRC Amendment:10]*

11.8 Movement (Displacement) Monitoring Standard Operating Procedure - the Licensee shall perform monitoring for potential vertical and horizontal movements in the constructed dike portions of the impoundments in accordance with the currently Director approved Movement Monitoring Standard Operating Procedure (SOP). The Licensee shall document displacement monitoring data and compare such data to previous data to track potential movement (displacement). All data collected by the Licensee for these purposes shall be included in an annual report to be submitted to the Director, pursuant to License Condition 12.2. Said SOP includes the following minimum provisions:

- A. Require that movement monuments be promptly installed following completion of construction of impoundment dikes;
- B. Indicate that the licensee will utilize movement monuments and monitoring methods that are resistant to shifting in their positions as a result of such forces as frost heave, erosion, burrowing animals, or other environmental factors;
- C. Include an obligation for the Licensee to prevent man-caused damage to movement monuments, including, but not limited to vehicle and construction traffic damage. Such measures will include: 1) all equipment, procedures, provisions need to protect said settlement monitoring devices, 2) schedules for rapid verbal and written reporting of any such damage, and 3) corrective actions taken or to be taken by the Licensee to replace and/or repair said devices;
- D. Indicate that movement monuments will be:
  - (1) Initially surveyed by a Utah Licensed Land Surveyor within 30 calendar days of installation;
  - (2) Surveyed semi-annually for the first three years following installation by a Utah Licensed Land Surveyor.
  - (3) Surveyed annually after the first three years by a Utah Licensed Land Surveyor

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- (4) Subjected to accelerated monitoring conducted under certain circumstances, at a frequency and in a manner approved by the Director; and
- (5) Reviewed annually by a Utah Licensed Professional Engineer, who shall perform and certify an analysis of all survey data. This analysis shall be submitted pursuant to License Condition 12.2;
- E. Include procedures requiring that such movement monuments be placed, surveyed, mapped, and maintained; that corrective action and maintenance activities be performed to maintain existing movement monuments in a reliable, good working condition, as needed; that the addition, surveying and mapping of new movement monuments installed be documented; and that records be made of observations of site conditions as they relate to the conditions at and in the vicinity of the installed monuments;
- F. Provide quantitative performance criteria and describe how such criteria will be used to evaluate movements (displacements);
- G. Indicate that any movement monument that is irreparably damaged as a result of environmental stresses or through man-caused contact, including but not limited to impoundment construction or other operational equipment, shall be promptly replaced with an identical or equivalent movement monument; and provisions provided to guide the interpretation of data from both the former and the replacement device;
- H. Include a list of records that will be prepared for documenting movement (displacement) data for each movement monument and related site observations and activities; and
- I. Indicate that results and records of movements (displacements) shall be submitted annually as part of the ATER required by License Condition 12.2.  
*[Applicable UDRC Amendment: 4] [Applicable UDWMRC Amendment:10]*

**SECTION 12: REPORTING REQUIREMENTS**

- 12.1 The licensee shall submit a detailed decommissioning plan to the Director at least twelve (12) months prior to planned final shutdown of mill operations that includes a detailed Quality Assurance Plan. The plan will be in accordance with NRC Regulatory Guide 4.15, "Quality Assurance for Radiological Monitoring Programs" and NUREG-1575, "Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)" or equivalent most current guidance.  
*[Applicable NRC Amendment: 13][Applicable UDRC Amendment: 1]*

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*[Applicable UDRC Amendment: 2]*

- 12.2 Annual Technical Evaluation Report (ATER) - starting 2021, the licensee shall submit an ATER for Director approval no later than March 1, of each year. Each ATER shall incorporate all documents and attachments, including applicable updates to previously submitted documents with attachments that support information presented in the ATER, including, but not limited to maps, drawings, tables, and figures. The licensee shall include, as part of the ATER, results of tailings cell temporary cover settlement and dike displacement monitoring activities. The content of the tailings cell temporary cover settlement and displacement monitoring program related information shall include those records required in License Conditions 11.7 and 11.8.

*[Applicable UDRC Amendment: 4] [Applicable UDWMRC Amendment: 10]*

- 12.3 The licensee shall conduct a survey of land use (private residences, grazing areas, private and public potable water and agricultural wells, non-residential structures and uses and assess population growth or industry growth) in the area within five kilometers radius once every two years of the White Mesa Uranium Mill facility property boundaries and submit a report of this survey to the Director. The report shall be submitted on or before June 30 on even numbered years. This report shall indicate any differences in land use from that described in the last report including the following: 1) providing references and/or a description of methods utilized to obtain information included in the report; 2) listing all water wells, owners, approved use, and contact information within the specified search radius; and 3) including information on an updated land use map to be included with the report. *[Applicable UDWMRC Amendment: 8 Renewal]*

### SECTION 13: CLOSEOUT CONDITIONS

- 13.1 Except as specifically provided otherwise by this license, the licensee shall conduct operations in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. Whenever the word "will" is used in the documents referenced below, it shall denote a requirement. The Utah Radiation Control Rules shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the rules.\*

- A. Licensee's Standby Trust Agreement, as amended;
- B. Licensee's letter to the NRC dated August 23, 1991 (including the license renewal application);
- C. Licensee's revision submitted to NRC January 13, 1992;
- D. Licensee's revision submitted to NRC April 7, 1992;
- E. Licensee's revision submitted to NRC November 22, 1994;

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- F. Licensee's revision submitted to NRC July 27, 1995;
  - G. Licensee's revision submitted to NRC December 13, 1996;
  - H. Licensee's revision submitted to NRC December 31, 1996;
  - I. Licensee's revision submitted to NRC January 30, 1997.
  - J. Licensee's letter dated May 25, 2012 (Transfer of Control)
  - K. Licensee's letter dated June 27, 2012 (Transfer of Control)
  - L. Director's Letter dated June 27, 2012 (Transfer of Control Approval)
  - M. Licensee's letter dated August 3, 2012 (Name Change)
  - N. Electronic Mail from David Frydenlund dated August 15, 2012 (Change Mailing Address)
  - O. Electronic Emails from David Frydenlund dated October 22 and 23, 2013
  - P. Licensee's letter dated December 13, 2013 (Performance Bond)
  - Q. Director's letter dated December 20, 2013
  - R. Licensee's letter dated April 27, 2011 (Dawn Mining Alt feed)
  - S. Licensee's letter dated December 5, 2012 (Dawn Mining Alt feed)
  - T. Licensee's letter dated June 14, 2013 (Dawn Mining Alt feed)
  - U. Licensee's letter dated August 7, 2013 (Dawn Mining Alt feed)
  - V. Electronic Email from Kathy Weinel dated April 24, 2014 to John Hultquist requesting minor mod to LC 11.9.
  - W. White Mesa Uranium Mill License Renewal Application State of Utah Radioactive Materials License No. UT1900479, Volumes 1 through 5, from Denison Mines (USA) Corp. dated February 28, 2007 to Utah Division of Radiation Control.
  - X. Health Physics and Engineering Interrogatories, Rounds 1 through 3, from Utah Division of Radiation Control dated November 24, 2008, July 2, 2009, and December 28, 2009 to Denison Mines.
  - Y. Responses to DRC Health Physics and Engineering Interrogatories, From Denison Mines dated February 5, 2009, April 20, 2009, May 15, 2009, August 14, 2009, September 14, 2009, September 28, 2009, November 24, 2009, November 25, 2009, and March 5, 2010 to Utah Division of Radiation Control
  - Z. Sequoyah Fuels Alternate Feed Request dated December 15, 2012, from Energy Fuels Resources Inc. to Utah Division of Radiation Control.
  - AA. White Mesa Uranium Mill Reclamation and Decommissioning Plan Rev 5.1, from Energy Fuels dated August 10, 2016 and February 23, 2017 to UDWMRC.
  - BB. Response to Notice of Enforcement Discretion date December 18, 2018, from Energy Fuels Resources Inc. to Utah Division of Waste Management and Radiation Control.
  - CC. Silmet Alternate Feed request dated April 18, 2019, from Energy Fuels Resources Inc. to the Utah Division of Waste Management and Radiation Control.
  - DD. Volume and Procedural Modification Request for 11e.(2) Byproduct Material Disposal, from Energy Fuels dated October 9, 2019 to UDWMRC.

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EE. Moffat Tunnel Alternate Feed request dated December 23, 2019, from Energy Fuels Resources to the Utah Division of Waste Management and Radiation Control.

*\* For 13. LB through 13.1.1- NRC Amendment: 2;  
For 13. 1.J through 13.1.N- UDRC Amendment 5  
For 13.1.0 through 13.1.Q - UDRC Amendment 6  
For 13.1.R through 13.1. V- UDRC Amendment 7  
For 13.1 W through 13.1AA – UDWMRC Amendment 8  
For 13.1 BB through 13.1EE – UDWMRC Amendment 10*

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Douglas J. Hansen, Director

July 27, 2021

Date

