

**REGION IV**  
**TECHNICAL PROGRAMS BRANCH**  
**DRAFT INSPECTION REPORT**

Licensee: Energy Fuels Nuclear, Inc.  
Three Park Central, Suite 900  
1515 Arapahoe  
Denver, CO 80202

Report: 8401

License: SUA-1325

Docket: 40-8675

Category/Priority: I-3

Inspection At: Hanksville, UT, Ore Buying Sta.

Inspection Dates: 5/1-3/84

Licensee Contact: \_\_\_\_\_

Telephone No: \_\_\_\_\_

Previous Inspection Dates: 4/79

Previous Findings: -

**Type Inspection:**

- ☒ Routine
- ☐ Unannounced
- ☐ Initial
- ☐ Special

**Inspection Procedures:**

- ☒ 30703B Management Meeting
- ☐ 30800B Initial
- ☒ 77710B Program Requirements
- ☐ 86740B Transportation

- ☐ 92702B Noncompliance Followup
- ☒ 92706B Independent Effort
- ☐
- ☐

Persons Contacted

Harold Roberts, Sr. Project Engr.

G.F. Richards, Mill Supt.

Larry Perkins, RSO

Inspection Findings

- ☒ 591 - No Violations
- ☐ 591 - Violations
- ☐ Regional Office Letter
- ☐ Appendix A - Violations (attached)
- ☐ Appendix B - Action on previous violations (attached)
- ☐ Appendix C - Inspector comments/supplemental information (attached)

Direct Inspection Effort: 1 Hrs.

Next Inspection Date: 5/87 ☒ Normal ☐ Advanced ☐ Extended

Inspector: C. L. Cain

Approved: [Signature]

9811130177 840503  
PDR ADOCK 04008775  
PDR

9811130177 8PP

INSPECTION CRITERIA		Yes	N/A	Vio.
<b>1. Entrance Briefing</b>				
a.	Proper licensee address? [LC 2]	(✓)	( )	( )
b.	Proper use location? [LC 10]	(✓)	( )	( )
c.	Proper users? [LC 12]	(✓)	( )	( )
d.	Organization:			
<p>Notes/Remarks: The ore buying station has not operated since 9/79. The last load of stock piled ore was removed from the site on 3/25/82. Contractor (local) now checks site daily, maintains generator, and changes air filters. Personnel from the mill go to the site approximately quarterly.</p>				
<b>2. Posting, Labeling, Facilities, and Security of Materials LC 13</b>				
a.	Posting of regs, license, Procedures, and NRC-3? [9.11, 30.7(e), 40.7(e), 70.7(e)]	(✓)	( )	( )
b.	Areas properly posted? [20.203]	(✓)	( )	( )
c.	Containers properly labeled CRM? [20.203(f)]	( )	(✓)	( )
d.	Materials secured? [20.207, LC ____]	(✓)	( )	( )
e.	Facilities as required? [LC ____]	(✓)	( )	( )
Notes/Remarks:				
<b>3. Independent Measurements</b>				
a.	Unrestricted areas within limits? [20.105]	(✓)	( )	( )
b.	Restricted areas within limits? [20.203]	(✓)	( )	( )
c.	Radiation Measurements:			
Notes/Remarks: All areas < 0.5 R/h. at 1 m.				

INSPECTION CRITERIA	Yes	N/A	Vio.
<b>4. <u>Personnel Monitoring Control</u></b>			
a. Used as required? [20.202, LC ____]	( )	(✓)	( )
(1) Type: ( ) Film ( ) TLD ( ) Chamber ( )			
(2) Freq: ( ) M ( ) Q ( )			
(3) Processor: ( ) licensee ( ) vendor			
b. Forms NRC-5 maintained? [20.101]	( )		( )
c. Forms NRC-4 maintained? [20.102(b)]	( )	(✓)	( )
d. Determination of prior dose? [20.102(a)]	( )	(✓)	( )
e. All exposures within limits? [20.101]	( )	(✓)	( )
f. Exposures to minors limited? [20.104]	( )	(✓)	( )
g. Exposures: Typical WB _____ Max WB _____			

Notes/Remarks:

**5. Facility and/or Field Site Surveys**

a. Facility Contamination surveys?	(✓)	( )	( )
b. Facility exposure rate surveys?	(✓)	( )	( )
c. Other	(✓)	( )	( )
<u>Removal of equipment from site (LCII)</u>			
d. Records maintained? [20.401, LC ____]	(✓)	( )	( )

Notes/Remarks:



INSPECTION CRITERIA	Yes	N/A	Vio.
6. <u>Receipt, Use, Inventory, and Transfer Material</u>			
a. Written procedures for pickup, receiving, opening of packages? [20.205]	( )	(✓)	( )
b. Proper receipt records? [30.51(a), 40.61(a), 70.51(b)]	( )	(✓)	( )
c. Package receipt surveys? [20.205, LC _____]	( )	(✓)	( )
d. Records of surveys maintained? [20.401(b)]	(✓)	( )	( )
e. Possession of only authorized material? [LC 6-8]	(✓)	( )	( )
f. Devices or use of materials as authorized? [LC 9]	(✓)	( )	( )
g. Transfers to authorized recipients? [30.41, 40.51, 70.42]	(✓)	( )	( )
h. Physical inventories performed as required? [LC _____]	( )	(✓)	( )
i. Records of inventories properly maintained?	( )	(✓)	( )
j. Types of materials used: _____			
_____			
_____			
_____			

Notes/Remarks:

7. Waste Disposal

a. Hold for decay/survey/release?	( )	(✓)	( )
b. Release to sanitary sewer?	( )	(✓)	( )
c. Other _____	( )	(✓)	( )
d. Records of disposals? [30.51(a), 40.61(a), 70.51(b)]	( )	(✓)	( )
e. Records of disposal surveys? [20.401]	( )	(✓)	( )

Notes/Remarks:

INSPECTION CRITERIA

Yes N/A Vio.

8. Leak Tests [LC ]

- a. Performed at proper frequencies?
- b. Records maintained?
- c. Proper detection limits and units?
- d. Performed by authorized individuals?
- e. Leakage properly reported?

( ) (✓) ( )  
( ) (✓) ( )  
( ) (✓) ( )  
( ) (✓) ( )  
( ) (✓) ( )

Notes/Remarks:

9. Survey Instrument Calibration

( )

Mfg	Model #	Serial #	Calib. Dates
Instrumentation and laboratory facilities at the			
licensee's White Mesa Mill used to analyze samples			
and to monitor site.			

- a. Equipment as required by application?
- b. Proper calib. frequency? \_\_\_\_\_
- c. Proper calib. records?
  - (1) two-points per scale?
  - (2) Performer: ( ) licensee ( ) vendor

(✓) ( )  
(✓) ( )  
(✓) ( )  
(✓) ( )  
(✓) ( )

Notes/Remarks:

INSPECTION CRITERIA	Yes	N/A	Vio.
10. <u>Training and Procedures</u> LC 16			
a. Appropriate worker training? [19.12, LC ____]	(✓)	( )	( )
b. Appropriate radiation safety procedures?	(✓)	( )	( )
c. Appropriate emergency procedures?	( )	(✓)	( )
d. Personnel understand safety and emergency procedures?	( )	(✓)	( )

Notes/Remarks:

11. <u>Notifications and Reports</u>			
a. Reports of thefts or losses? [20.402]	( )	(✓)	( )
b. Notifications and reports of incidents? [20.403, .405]	( )	(✓)	( )
c. Notifications and reports to individuals? [20.409]	( )	(✓)	( )
d. Reciprocity notifications? [150.20]	( )	(✓)	( )
e. Reports concerning SNM-Form-742? [70.53]	( )	(✓)	( )
f. Well Logging-Reports of lost sources down-hole? [LC ____]	( )	(✓)	( )
g. Other: _____ -	( )	(✓)	( )

Notes/Remarks:

Annual audit required by LC 19. Accomplished thru routine ~~later~~ reviews and semiannual environmental reports.

12. <u>Special Requirements</u> License Condition 30			
Semi-annual environmental report for 1st half of 1983 submitted 9/14/83. (✓) ( ) ( )			
Air samples have been analyzed by Alpha Nuclear Labs. for Ra-226, Th-230, and Pb-210 as well as U-235.			

Notes/Remarks:



INSPECTION CRITERIA	Yes	N/A	Vic.
13. <u>Transportation</u>			
a. Proper shipping containers used? Type used: ( ) Type-A [173.415] ( ) limited quantity [173.421] ( ) LSA [173.425] ( ) Other: _____	( )	( )	( )
b. Containers labeled as required? [178.350-3, 173.421, .425] Other: _____	( )	( )	( )
c. Proper Dot "radioactive" Labels? [172.403] ( ) WI ( ) YII ( ) YIII	( )	( )	( )
d. Vehicles placarded? [172.500-508]	( )	( )	( )
e. Adequate blocking, bracing or tie down of packages provided? [177.842(d)]	( )	( )	( )
f. Shipping papers used? [172.200]	( )	( )	( )
g. Shipping papers contain referred information [172.203(d)]	( )	( )	( )
h. Dot-7A performance test records? [173.415(a)]	( )	( )	( )
i. Special form performance test records? [173.476(a)]	( )	( )	( )
j. Other requirements: _____	( )	( )	( )

Notes/Remarks:

Ore shipped to Plateau Resources Shooting Canyon Mill.

INSPECTOR'S REPORT  
Office of Inspection and Enforcement

Cain, Charles L.

REVIEWER

INSPECTORS

LICENSE, OR	TRANSACTION TYPE	DOCKET NO. (8 digits OR LICENSE NO. (BY PRODUCT) (13 digits)	REPORT NO	SEQ	MC	YR
Energy Fuels Nuclear	<input checked="" type="checkbox"/> I - INSERT <input type="checkbox"/> M - MODIFY <input type="checkbox"/> D - DELETE <input type="checkbox"/> R - REPLACE	04008675	8401	A	05	87

PERIOD OF INVESTIGATION/INSPECTION	INSPECTION PERFORMED BY	ORGANIZATION CODE OF REGION/HQ CONDUCTING ACTIVITY (See IEMC 0530 "Manpower Reporting—Weekly Manpower Reporting" for code)
FROM: MO DAY YR 050184	TO: MO DAY YR 050384	REGION DIVISION BRANCH 4 B A

REGIONAL ACTION (Check one box only)	TYPE OF ACTIVITY CONDUCTED (Check one box only)
<input checked="" type="checkbox"/> 1 - NRC FORM 591 <input type="checkbox"/> 2 - REGIONAL OFFICE LETTER	<input checked="" type="checkbox"/> 02 - SAFETY <input type="checkbox"/> 03 - INCIDENT <input type="checkbox"/> 04 - ENFORCEMENT <input type="checkbox"/> 05 - MGMT. AUDIT <input type="checkbox"/> 06 - MGMT. VISIT <input type="checkbox"/> 07 - SPECIAL <input type="checkbox"/> 08 - VENDOR <input type="checkbox"/> 09 - MAT. ACCT. <input type="checkbox"/> 10 - PLANT SEC. <input type="checkbox"/> 11 - INVENT. VER. <input type="checkbox"/> 12 - SHIPMENT/EXPORT <input type="checkbox"/> 13 - IMPORT <input type="checkbox"/> 14 - INQUIRY <input type="checkbox"/> 15 - INVESTIGATION

INSPECTION INVESTIGATION FINDINGS (Check one box only)	TOTAL NUMBER OF VIOLATIONS AND DEVIATIONS	ENFORCEMENT CONFERENCE HELD	REPORT CONTAIN 2790 INFORMATION	LETTER OR REPORT TRANSMITTAL DATE
<input checked="" type="checkbox"/> 1 - CLEAR <input type="checkbox"/> 2 - VIOLATION <input type="checkbox"/> 3 - DEVIATION <input type="checkbox"/> 4 - VIOLATION & DEVIATION	A B C D	A B C D	A B C D	NRC FORM 591 OR REG LETTER ISSUED MO DAY YR 050384

MODULE INFORMATION										MODULE INFORMATION																	
REC. ORD.	MODULE NUMBER INSP.				PRIORITY	DIRECT INSPECTION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED	TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	REC. ORD.	MODULE NUMBER INSP.				PRIORITY	DIRECT INSPECTION EFFORT IN STAFF HOURS EXPENDED THIS INSPECTION	PERCENTAGE COMPLETED	TO DATE	STATUS	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL
TYPE	NUMBER	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	SEC. 2								TYPE	NUMBER	PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	SEC. 2							
B	530703B					A	0	-	-	-				B	592706B						A	0	-	-	-		
	meetings																										
B	530800B					A	100	-	-	-				B	592702B						A	-	-	-	-		
	initial inspection																										
B	577710B					A	0.01100	-	-	-				B							A						
B	586740B					A	0100	-	-	-				B							A						
	transportation																										



SAFETY INSPECTION

1. LICENSEE

Energy Fuels Nuclear, Inc.  
Three Park Central, Suite 900  
1515 Arapahoe  
Denver, CO 80202

2. REGIONAL OFFICE

3. DOCKET NUMBER(S)

04008675

4. LICENSE NUMBER(S)

SUA-1325

5. DATE OF INSPECTION

May 1-3, 1984

Licensee:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission's (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews, with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:

- ☒ 1. Within the scope of this inspection, no violations were observed.
- ☐ 2. The inspector also verified the steps you have taken to correct the violations identified during the last inspection. We have no further questions on those actions at this time.
- ☐ 3. During this inspection certain of your activities, as checked below, were in violation of NRC requirements.  
**THIS IS A NOTICE OF VIOLATION** which is required to be posted in accordance with 10 CFR 19.11.
- ☐ A. \_\_\_\_\_ was not properly posted to indicate the presence of a \_\_\_\_\_. 10 CFR 20.203(b), (c), (d), (e) or 34.42.
- ☐ B. Containers located in \_\_\_\_\_ were not properly labeled to indicate the presence of radioactive material. 10 CFR 20.203(f)(1), or (f)(2).
- ☐ C. \_\_\_\_\_ of sealed sources were not performed at the proper frequencies. 10 CFR \_\_\_\_\_ License Condition Number \_\_\_\_\_.
- ☐ D. Records of \_\_\_\_\_ were not properly maintained. 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_.
- ☐ E. Documents were not properly posted or otherwise made available. 10 CFR 19.11.
- ☐ F. Reports or notifications of \_\_\_\_\_ were not made in accordance with 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_.
- ☐ H. \_\_\_\_\_
- ☐ I. \_\_\_\_\_
- ☐ J. \_\_\_\_\_
- ☐ K. \_\_\_\_\_

I hereby state that within 30 days the actions described by me to the inspector will be taken to correct the violations identified in the items checked above. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201. No further response will be submitted unless required by the NRC.

SIGNATURE - LICENSEE

DATE

SIGNATURE - NRC INSPECTOR

DATE

4406050477 1P

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5/3/84