

# Licensee Performance Review



Nuclear Fuel Services, Erwin, Tennessee

Nuclear Regulatory Commission - Region II

April 27, 2021, 6:00 PM (EDT)

*Presented by Joel Rivera, Senior Project Inspector*

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# WELCOME

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# WELCOME



Discuss performance  
review process



Discuss licensee  
performance 2019- 2020



Observation Meeting

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# AGENDA

- Introductions
- Facility and NRC Oversight Background
- Performance Review Process
- Performance Review Results
- Licensee Response
- Adjourn Business Portion
- Questions & Comments from the Public
- Adjourn Meeting

# LICENSED ACTIVITIES

## Nuclear Fuel Services Facility

- Possess Special Nuclear Material (Highly Enriched Uranium)
- Process and develop uranium products
- Operate on-site laboratories
- Treat and monitor plant effluents

NRC FORM 374 U.S. NUCLEAR REGULATORY COMMISSION



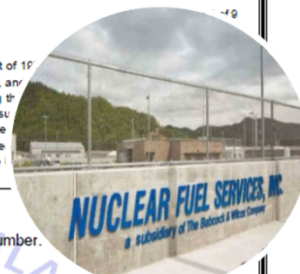
### MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974, Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and any representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to possess, use, and transfer byproduct, source, and special nuclear material designated below; to use such material in the place(s) designated below; to deliver or transfer such material to persons authorized to receive it; and to use such material in the place(s) designated below. This license shall be deemed to contain the conditions specified in the applicable Part(s). This license is subject to all applicable rules, regulations, and orders of the Commission, as amended, and is subject to any conditions specified below.

Licensee	
1. Nuclear Fuel Services, Inc.	3. License Number.
2. 1205 Banner Hill Road Erwin, TN 37650-9718	4. Expiration Date: August 31, 2037
	5. Docket Number: 70-147 Reference Number
6. Byproduct Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form
A. Uranium enriched up to 100 weight percent in the U235 isotope which may contain up to an average of $10^{-6}$ grams plutonium per gram of uranium, 0.25 millicuries of fission products per gram of uranium, and $1.5 \times 10^{-5}$ grams transuranic materials (including plutonium) per gram of uranium, as contaminants	A. As described in Appendix 1B to the license application
B. Uranium enriched up to 100 weight percent in the U233 isotope	B.1 Any form, but limited to residual contamination from previous operations
	B.1 Se

This license contains OFF removal/reduction of the Se license is DECONTROLLED.

OFFICIAL USE ONLY





# NRC FUEL CYCLE OVERSIGHT



Inspections



Investigations



Allegations



Incident  
Response



Enforcement



Performance  
Assessment

# NRC INSPECTION PROGRAM

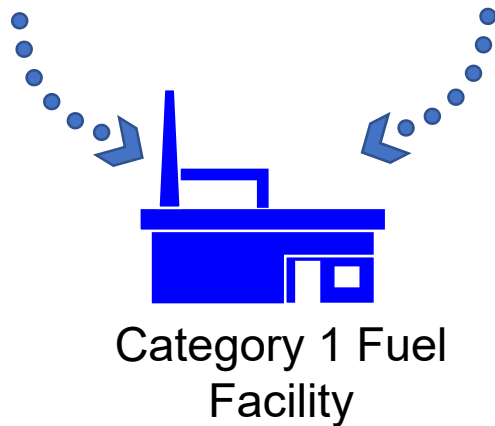
## Category I Fuel Facility



Resident  
Inspector



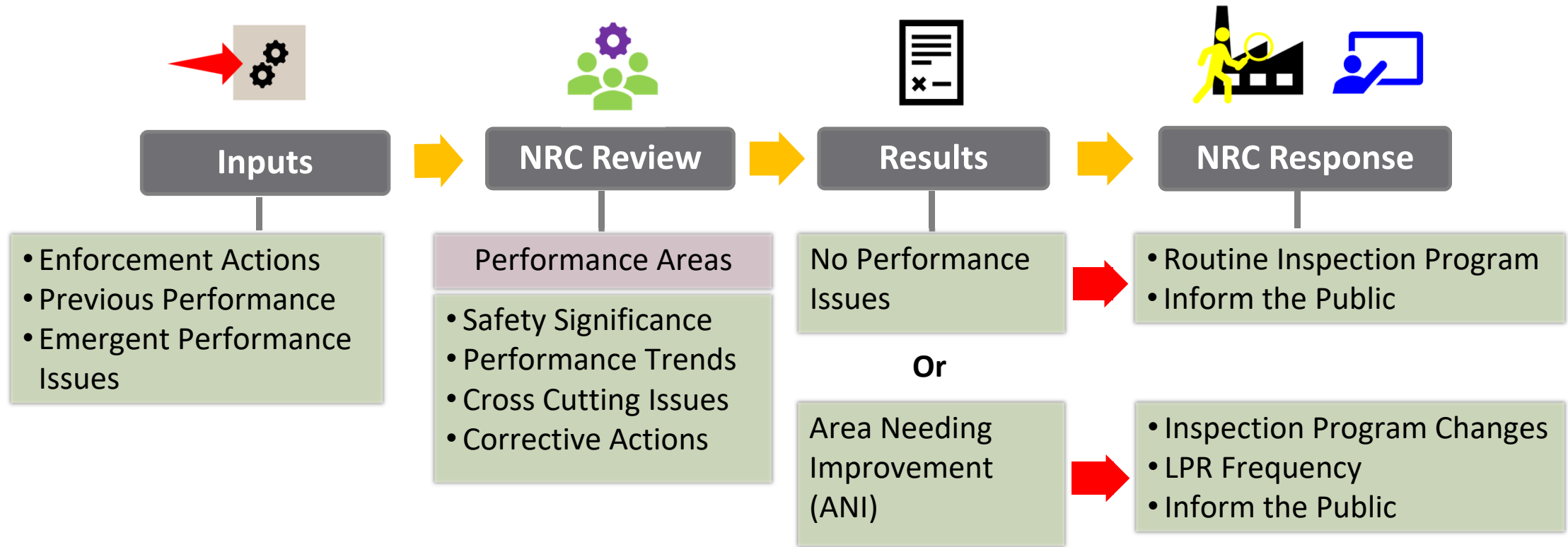
Region 2  
Inspectors



Category 1 Fuel  
Facility



# LICENSEE PERFORMANCE REVIEW PROCESS





# LICENSEE PERFORMANCE AREAS

## Safety Operations

### Operational Safety

- Safety Controls
- Supporting Safety Programs



### Criticality Safety

- Criticality Controls
- Program Oversight
- Criticality Incident Response



### Fire Protection

- Prevention, Detection, & Mitigation
- Supporting Fire Safety Programs



# LICENSEE PERFORMANCE AREAS

## Radiological Controls

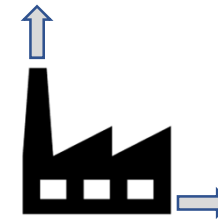
### Radiation Protection

- Members of the Public
- Plant Workers



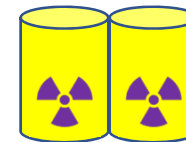
### Effluent Control & Environmental Protection

- Program Implementation
- Liquid and Gaseous Effluents



### Waste Management

- Processing, Handling, Storage & Transportation of Waste



### Transportation

- Receipt, Packaging & Delivery of Radioactive Materials



# LICENSEE PERFORMANCE AREAS

## Facility Support & Other Areas

### Maintenance and Surveillance

- Safety Controls
- Supporting Program Elements



### Emergency Preparedness

- Emergency Plan Implementation
- Evaluation of Emergency Drills



### Plant Modifications

- Configuration Management Program
- Request for NRC Approval



### Plant Events

- Safety Assessment and Follow-up



### Safeguards

- Material Control, Physical Protection, Classified Material & Information Security



# PERFORMANCE REVIEW RESULTS

## Nuclear Fuel Services Facility

- NFS conducted activities safely and securely in 2019 and 2020.
- No area needing improvement was identified in the performance assessment areas.
- NRC will conduct routine inspection program in the next performance assessment cycle.
- Results are publicly available in ADAMS via Accession Number ML21062A149.



# REMARKS FROM NFS



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# QUESTIONS AND COMMENTS FROM THE PUBLIC

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# CONTACT THE NRC

Website: [www.nrc.gov](http://www.nrc.gov)

Questions/Information: [OPA2.Resource@nrc.gov](mailto:OPA2.Resource@nrc.gov) or  
call 404-997-4417

For Safety or Security Concerns:

- Non-Emergency Hotline: 1-800-695-7403
- Emergencies: 301-816-5100
- Link: <https://www.nrc.gov/about-nrc/regulatory/allegations/safety-concern.html>

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Link: <https://feedback.nrc.gov/pmfs/feedback/form?meetingcode=20210430>

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