

Public Meeting to Discuss Approval of License Renewal for Nuclear Fuel Services

August 30, 2012 6:00 pm – 8:30 pm

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Agenda

6:00 pm	Welcome and Opening Remarks
6:10 pm	Summary of Safety Evaluation Report
6:30 pm	Summary of Environmental Assessment
6:50 pm	Questions and General Comments
8:25 pm	Closing Remarks
8:30 pm	Meeting Adjourned



Safety Evaluation Report of NFS License Renewal Application

Kevin Ramsey
Fuel Manufacturing Branch

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SER Chapter 1 – General Information

- · Facility and Process Description
- Institutional Information
 - Corporate Identity
 - Financial Qualifications
 - Type, Quantity and Form of Licensed Material
 - Authorized Uses
 - Term of License
 - Exemptions and Special Authorizations
 - Security of Classified Information
- Site Description



SER Chapter 2 – Organization and Administration

- Described Organizational Groups
- Defined Qualifications, Responsibilities and Authorities
- · Safety Groups Independent from Operation Groups
- Formal Written Procedures Required for Safety Functions
- Problem Identification System Available to Any Person
- Adequate Lines of Communication and Authority

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SER Chapter 3 – Integrated Safety Analysis

- Process Safety Information Compiled and Maintained
- Integrated Safety Analysis (ISA) Performed and Maintained
- Management Measures Established and Maintained
- 14 ISA Summaries Reviewed and Approved



SER Chapter 4 - Radiation Protection

- · Radiation Protection Program
- As Low As Reasonably Achievable (ALARA) Program
- · Organization and Personnel Qualifications
- Written Procedures
- Training
- · Ventilation and Respiratory Protection
- Radiation Survey and Monitoring Programs
- Additional Reporting and Recordkeeping Requirements

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SER Chapter 5 – Nuclear Criticality Safety

- Management of the Program
- Organization and Administration
- Management Measures
- Methodologies and Technical Practices



SER Chapter 6 – Chemical Process Safety

- · Chemical Safety Program
- Chemical Process Safety Information
- · Team Conducting the Hazard Evaluation
- Chemical Accident Sequences
- Chemical Accident Consequences
- Chemical Process Safety Items Relied on for Safety
- Chemical Process Management Measures
- Coordination of Chemical Process Safety and Emergency Management

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SER Chapter 7 - Fire Safety

- Fire Safety Management Measures
- Fire Hazards Analysis
- Facility Design
- Process Fire Safety
- Fire Protection and Emergency Response



SER Chapter 8 – Emergency Management

- Emergency Plan
- Commitments to Implement and Maintain Program

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SER Chapter 9 – Environmental Protection

- Environmental Report
- Effluent and Environmental Controls and Monitoring
 - Radiation Safety
 - Effluent and Environmental Monitoring
- ISA Summary and Management Measures



SER Chapter 10 - Decommissioning

- · Financial Assurance for Decommissioning
- · Recordkeeping for Decommissioning
- · Decommissioning Plans

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SER Chapter 11 – Management Measures

- · Configuration Management
- Maintenance
- · Training and Qualifications
- Procedures
- Audits and Assessments
- · Incident Investigations
- Records Management
- Other QA Elements



SER Chapter 12 – Material Control and Accounting

- Fundamental Nuclear Material Control Plans
- Material License Safeguards Conditions

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SER Chapter 13 – Physical Protection of Material at Fixed Sites

- Physical Protection Plan for Category I, High Enriched Uranium
- · Safeguards Contingency Response Plan
- · Site Security Training and Qualification Plan
- Physical Protection Plan for Material of Moderate Strategic Significance (Category II)
- Physical Protection Plan for Material of Low Strategic Significance (Category III)



SER Chapter 14 – Physical Protection of Material in Transit

- Physical Protection Plan for Material of Moderate Strategic Significance (Category II)
- Physical Protection Plan for Material of Low Strategic Significance (Category III)

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SER Chapter 15 – Environmental Review

- Environmental Assessment
- · Finding of No Significant Impact
- Impacts of 25-Year License Bounded by Assessment



Summary of Final Environmental Assessment for the License Renewal for Nuclear Fuel Services, Inc.

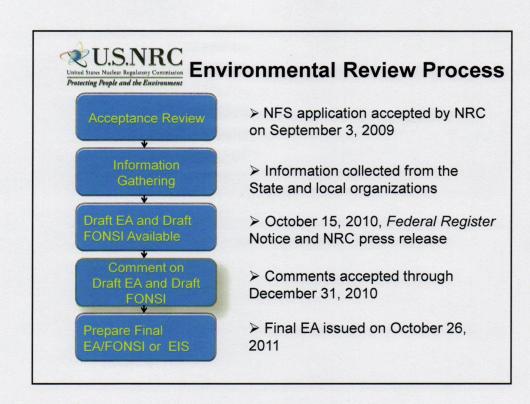
James Park, Project Manager
Environmental Review Branch
Division of Waste Management and Environmental Protection



United States Nuclear Regulatory Commission Protecting People and the Environment Environmental Assessment

- Purpose
 - ➤ Determine significance of the environmental effects from proposed action and alternatives
- Possible Conclusion
 - ➤ Finding of No Significant Impact (FONSI)

 OR
 - ➤ Environmental Impact Statement (EIS) should be prepared





Final EA Structure

- 1. Introduction
- 2. Proposed Action
- 3. Affected Environment
- 4. Environmental Impacts
- 5. Consultations
- 6. Conclusion
- 7. Appendices



The Proposed Action

 Continue currently approved operations at the Erwin facility for 40 years

Alternatives

- Continue currently approved operations at the Erwin facility for 10 years
- Deny the NFS application and begin shutdown and site decommissioning



Final EA - Basis for Review

- NFS's license renewal application and environmental report
- NFS's responses to NRC staff requests for additional information
- · Previous NRC environmental reviews
- Stakeholder-provided information
- · NRC inspection reports
- NFS environmental monitoring reports
- · Public comments on draft EA



Affected Environment

- Land Use
- Historical and Cultural Resources
- Visual and Scenic Resources
- Air Quality
- Geology and Soils
- Water Resources
- Ecology

- Noise
- Transportation
- Public & Occupational Health
- Waste Management
- Socioeconomics



Environmental Impacts

The NRC defines three impact levels:

- <u>SMALL</u>: Environmental effects are not detectable or are so minor that they will neither destabilize nor noticeably alter any important attribute of the resource.
- MODERATE: Environmental effects are sufficient to alter noticeably, but not destabilize, important attributes of the resource.
- <u>LARGE</u>: Environmental effects are clearly noticeable and are sufficient to destabilize important attributes of the resource.



Summary of Environmental Impacts – Operations

The NRC staff has determined that the significance of the environmental impacts from the proposed license renewal would be SMALL, with the exception of:

- SMALL to MODERATE impacts to land use, transportation, soils, and groundwater; and
- MODERATE impacts to public & occupational health from accidents



Summary of Environmental Impacts – Decommissioning

The NRC staff has determined that the significance of the environmental impacts from the proposed license renewal would be SMALL to MODERATE, with the exception of:

- SMALL impacts to air quality, geology, historic & cultural resources, and public & occupational health; and
- MODERATE impacts to land use, scenic & visual, and waste management



Changes from Draft EA

- Site decommissioning is reasonably foreseeable, and therefore is part of proposed action and each alternative
- Potential for increased site contamination under proposed action and 10-year alternative to be addressed in final site decommissioning plan
- Issue of cancer risk discussed in potential public health risks
- · August 23, 2011 Virginia earthquake



Final EA Conclusions

- Determination that renewal of the NFS license for 40 years would not significantly affect the quality of the human environment
- Preparation of an EIS is not warranted, and issuance of a FONSI is appropriate



Final EA Availability

- NRC's Public Document Room (PDR):
 One White Flint North, 11555 Rockville Pike (1st floor),
 Rockville, MD 20852 (Tel: 800-397-4209; Fax: 301-415-3548; pdr.resource@nrc.gov)
- NRC's website for the NFS license renewal application: http://www.nrc.gov/materials/fuel-cycle-fac/fuel-fab/nfs-license-renewal-application.html
- Public Libraries in Erwin, Jonesborough, and Greeneville



NRC Contacts

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Questions and Discussion