

## **Fuel Cycle Facility Licensing**

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## **GTRI Reactor Conversion Program**

Assumption from Conceptual Process Description

Material will be Category III (10 CFR 70.4)  
SNM of Low Strategic Significance  
Less than 10% enrichment  
10,000 grams or more of U-235

## **Regulations**

- 10 CFR 70 Special Nuclear Material
- 10 CFR 51-NEPA Implementation
- 10 CFR 20 Radiation Protection
- 10 CFR 40 Source Material
- 10 CFR 73 Physical Protection
- 10 CFR 74 Material Control and Accounting







## NUREG-1520

1. General Information
2. Organization and Administration
3. Integrated Safety Analysis and ISA Summary
4. Radiation Protection
5. Nuclear Criticality Safety

## NUREG-1520

- 6. Chemical Process Safety
- 7. Fire Safety
- 8. Emergency Management
- 9. Environmental Protection
- 10. Decommissioning
- 11. Management Measures

"Commitment to specific industry codes and standards increases the level of assurance of compliance with safety objectives, particularly where guidance is lacking in the Standard Review Plan and final design may not be complete."

(From LES lessons learned)



## **Operations**

- Operational Readiness Review
- Periodic Inspections
- License Amendments
- ISA Annual Updates, 70.72(d)(2)
- Financial Assurance Update/3 years
- Licensee Performance Review/2 years

Early and frequent interface can result in earlier NRC staff understanding of applicant's approach and processes and earlier applicant understanding of NRC staff issues, and can improve overall efficiency.

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