

Regulatory Activity Status of the Rule (10 CFR Part 70) & the U.S. NRC Draft Standard Review Plan (NUREG 1520)



March 29, 2000

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March 2000 U.S. DOE Nuclear Criticality Technology Safety Project Workshop

Proposed Rule for Nuclear Fuel Fabrication Facilities

Part 70 Subpart H

<http://ruleforum.llnl.gov/cgi-bin/rulemak>, select "Proposed Rulemaking - Domestic Licensing of Special Nuclear Material; Possession of a Critical Mass of Special Nuclear Material" -- (FRN, 7/30/99)

- § 70.60 Applicability
- § 70.61 Performance Requirements
- § 70.62 Safety Program and the Integrated Safety Analysis
- § 70.64 New Facilities / New Processes
- § 70.65 Additional Content of Application
- § 70.72 Change Process
- § 70.74 Reporting Requirements

Proposed Rule for Nuclear Fuel Fabrication Facilities

Characteristics of Draft Revisions to 10 CFR Part 70

- Pre and post licensing changes
- Risk-informed, performance-based
- Covers major accidents only - Part 20 addresses safety for normal operating conditions/upsets
- Requires “integrated” look at accident safety
- Consistent & compatible with OSHA and EPA process safety rules
- Explicit accident standards for worker, public, & environmental safety

Proposed Rule for Nuclear Fuel Fabrication Facilities

Integrated Safety Analysis (ISA) Summary

- Serves as the primary information that will allow NRC to conclude, with reasonable assurance, that the performance requirements of 70.61 will be satisfied
- Describes accident sequences & their consequences
- Function & nature of all Items Relied on for Safety (IROFS)
- Expected likelihood of these accidents, taking into account the effectiveness of the IROFS and their availability & reliability, as determined by the applied Management Measures
- Configuration Management, Maintenance, Training & Qualifications, Procedures, Audits & Assessments, Incident Investigations, Records Management, and other quality assurance elements

Standard Review Plan (SRP)

Structure

<http://techconf.llnl.gov/cgi-bin/topics>, select "Draft Standard Review Plan and Guidance on Amendment to 10 CFR Part 70" & then select "Document Library" -- (7/16/1999)

- Abstract, Introduction, Acronyms, Glossary, General Information, Organization & Administration, and Integrated Safety Analysis
- Radiation, Nuclear Criticality, Chemical Process, and Fire Safety
- Emergency Management, Environmental Protection, Decommissioning, and Management Measures
- Purpose, Responsibility, and Areas of Review
- Acceptance Criteria
- Review Procedures, Evaluation Findings, and References

Standard Review Plan (SRP)

Chapter 5.0, Nuclear Criticality Safety

- Use of national standards
- Methodologies and Technical Practices for safe operation
 - 10 CFR 70.24 [Criticality Accident Alarm System]
 - 10 CFR 70.61(d) [Subcriticality of Operations and Margin of Subcriticality for Safety]
 - 10 CFR 70.64(a) [Baseline Design Criteria for new facilities/new processes]
 - 10 CFR 70.65(b) [ISA Summary]

Future Actions on the Rule and the SRP

- On 1/28/2000, NRC staff's proposed resolutions of the comments made on the SRP chapters were placed on the website and starting 3/13/2000, revised drafts have been placed on the website
- A public meeting is scheduled for 4/18-19/2000, at the NRC TWFN Auditorium to discuss comments on the revised SRP chapters and you are encouraged to provide written comments on these revised drafts, as much in advance of the meeting as possible
- To the extent practical, these comments will be considered by staff in further revisions to the SRP chapters before the entire Rulemaking package is forwarded to the Commission in early May for its consideration [Public comment period on the Rulemaking itself expired 10/13/1999]