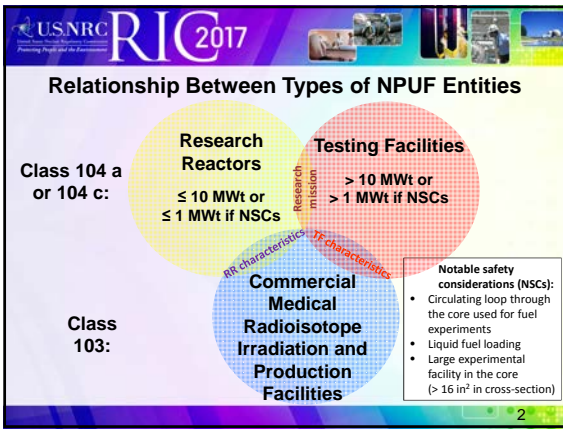


USNRC RIC 2017

Session T24: Streamlining Research and Test Reactor License Renewals

Non-power Production or Utilization Facility (NPUF) License Renewal Rulemaking

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Office of Nuclear Reactor Regulation
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NPUF Proposed Rule - Overview

NPUF Proposed Rule Change	Class 103 Facilities		Class 104c Facilities	
	Commercial	Medical Therapy	R&D	Testing
1. Create a definition for NPUF	✓	✓	✓	✓
2. Eliminate license terms	N/A	✓	✓	N/A
3. Define the license renewal process	✓	N/A	N/A	✓
4. Require updated FSAR submittals	✓	✓	✓	✓
5. Amend timely renewal provision	✓	✓	✓	✓
6. Provide an accident dose criterion	✓	✓	✓	N/A
7. Extend applicability of 10 CFR 50.59	✓	✓	✓	✓
8. Clarify existing environmental reporting requirements	✓	✓	✓	✓
9. Eliminate NPUF financial qualification information requirement	✓	N/A	N/A	✓

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Require Updated FSAR Submittals

- Extend applicability of 10 CFR 50.71(e) to NPUFs
- Ensure timely documentation of changes to licensing basis
- Benefit knowledge management, NRC's inspection program, and licensee operator training and exams

Class 104 a & c

- Research Reactors**
≤ 10 MWt or ≤ 1 MWt if NSCs
- Testing Facilities**
> 10 MWt or > 1 MWt if NSCs

Class 103

Commercial Medical Radioisotope Irradiation and Production Facilities

Notable safety considerations (NSCs)

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Provide an Accident Dose Criterion

- Create new accident dose criterion for NPUFs, other than testing facilities, in 10 CFR 50.34
- Part 20 public dose limits are restrictive as accident criteria
- Proposed criterion would align with early phase EPA PAG and provide adequate protection from unnecessary exposure to radiation

Class 104 a & c

- Research Reactors**
≤ 10 MWt or ≤ 1 MWt if NSCs
- Testing Facilities**
> 10 MWt or > 1 MWt if NSCs

Class 103

Commercial Medical Radioisotope Irradiation and Production Facilities

Notable safety considerations (NSCs)

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NPUF Proposed Rule Documents

The NRC will be requesting public comments on the following NPUF documents:

- Federal Register* Notice
 - Draft rule language
- Draft Regulatory analysis
 - Cost/Benefit calculation
- Draft Environmental assessment
 - Finding of no significant environmental impact
- Draft Regulatory Guide DG-2006
 - Acceptable methods for updating FSARs

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NPUF Rulemaking Schedule

The NRC will be requesting public comments on the following NPUF documents:

Proposed NPUF rule is expected to be issued for public comment in 2017

- 75-day comment period
- All supporting documents will be issued together
- NRC staff will hold a public meeting during the public comment period
- Public comments collected via www.regulations.gov
- Search for Docket ID: **NRC-2011-0087**

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NPUF FRN Questions (*paraphrased)

- Are there any unintended consequences associated with removing license terms via an order for NPUFs, other than testing facilities, licensed under 10 CFR 50.21(a) or (c)?
- Are there examples of elements of the license renewal process that should be removed from or added to the proposed § 50.135 for facilities licensed under § 50.22 and testing facilities?
- Is license renewal necessary for all NPUFs licensed under § 50.22, even if they have the same inherent low risk profile as NPUFs licensed under § 50.21(a) or (c), or could it be more efficient and effective to differentiate low-power NPUFs licensed under § 50.22 from high-power NPUFs licensed under § 50.22?
- Is the license renewal process necessary for testing facilities licensed under § 50.21(a) or (c), or could it be more efficient and effective to also grant testing facilities non-expiring licenses?
- For NPUFs licensed under § 50.22 and testing facilities, does the revision to the timely renewal provision from 30 days to 2 years provide an undue burden on licensees?
- Is the proposed accident dose criterion appropriate for NPUF accident analysis, other than testing facilities, to demonstrate that an individual located in the unrestricted area would not receive a dose in excess of 1 rem (0.01 Sv) TEDE for the duration of the accident?


* Paraphrased for slide, please refer to FRN for actual questions

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QUESTIONS?



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