

**RIC 2006 – Session T2D**

**New Reactor Licensing, Preparing for Combined License Reviews**

# **Regulatory Guidance for New Reactor Licensing**



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# DG-1145: COL Applications for Nuclear Power Plants (LWR Edition)

- NRC engaged NEI COL Task Force in 2005 on NEI 04-01, *Draft Guideline for Combined License Applicants Under 10 CFR Part 52*
- NEI 04-01 covers the base case - COL applications referencing a certified design and an early site permit (ESP)
  - No announced COL applicants have proposed to follow the NEI 04-01 base case
- COL applicants have requested to engage NRC staff on:
  - COL application contents
  - what questions the NRC staff is likely to ask for each chapter of the SAR during the review of a COL application

# Format of DG-1145

- **Part I: Format and Content of a COL application**
  - Information required by revised 10 CFR 52.79
  - Based on RG 1.70, Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants (Light-Water Reactor Edition)
- **Part II: Supplemental Information**
  - Information required by revised 10 CFR 52.80
  - Probabilistic Risk Assessment
  - Environmental Report
- Parts I and II constitute the complete set of information needed for a COL application, regardless of whether it references a certified design, ESP, both, or neither

# Format of DG-1145 (continued)

- Part III: COL applications referencing a certified design and an ESP
  - road map for identifying finality for COL applications
  - identifies the portions of a COL requiring review
- Part IV: Everything else
  - change processes
  - operational programs
  - other topics
- Full draft “Table of Contents” is on NRC website  
<http://www.nrc.gov/reactors/new-reactor-licensing.html>

# Development of DG-1145

- Draft sections of DG-1145 will be made available on NRC website as “draft work-in-progress”
- NRC will engage public prior to issuance of DG-1145 in three public workshops
  - March 15 – 16
  - April 20 – 21
  - June 5 – 6
- DG-1145 to be issued for comment in June ‘06
- Additional public workshops scheduled for July 2006
- Comments may be made anytime after document is placed on the NRC website

# Standard Review Plan (NUREG-0800) Update

- Approximately 290 SRP Sections (including Branch Technical Positions)
- Certain SRP sections to be updated by 2007 to support COL applications
  - High priority SRP sections (20%)
  - Medium priority SRP sections (65%)
  - Remaining low priority SRP sections are not scheduled to be updated within the next 2 years
- Staff considering risk-informing the prioritization and scheduling of the updates
- The SRP update schedule is available at:  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr0800/>

# Standard Review Plan Update (continued)

## High priority SRP sections

- new or existing sections providing guidance related to new reactor licensing (e.g., Section 14.3 on ITAAC);
- sections addressing operational programs (including industry identified sections);
- sections with inconsistent technical guidance; and
- site-specific sections addressed in RS-002, “Processing Applications for Early Site Permits.”

## Medium priority SRP sections

- design-related sections used in previous design certification reviews
- ensure that the most up-to-date review guidance is referenced

# Summary

- NRC is preparing for a large number of COL applications in 2007-2008 time frame
- NRC can perform COL application reviews using existing guidance
- NRC is responding to industry requests and new reactor licensing preparation activities by:
  - updating the applicable guidance for use by COL applicants in development of their applications
  - updating acceptance criteria for use by staff to efficiently perform COL application reviews
- For more information, visit our website:
  - <http://www.nrc.gov/reactors/new-reactor-licensing.html>
  - <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr0800/>