

RIC 2006 – Session T2D
New Reactor Licensing, Preparing for Combined License Reviews

Regulatory Guidance for New Reactor Licensing



Joseph Colaccino, Senior Project Manager
Division of New Reactor Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

March 7, 2006

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/>