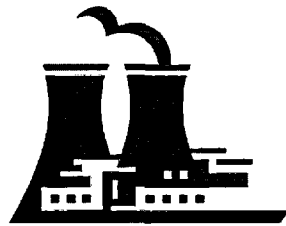


**DG-1145: Combined License Applications for
Nuclear Power Plants (LWR Edition)**



**Office of Nuclear Reactor Regulation
July 10, 2006**

Section C.I.8, Electrical Power



**July 10, 2006
Sikhindra K.(S.K) Mitra,
U.S. Nuclear Regulatory Commission
Division of New Reactor Licensing**

Overview

- Section rationale and basis
- Section references
- Chapter C.1.8 highlights
- C.III.1 & 2
- Pre-Workshop Comments

Rationale and Basis

- Rationale:
 - Provide guidance for 10 CFR Part 52 applicants.
- Technical basis/input from:
 - Regulatory Guide 1.70 REV 3, NOV, 1978
 - Draft update to Section 8 of Standard Review Plan (NUREG-0800)
 - NEI 04-01E input

Section C.I.8, Electrical Power

- **Electrical Power System should be addressed in the following Sections:**
 - 8.1 Introductions**
 - 8.2 Offsite Power System**
 - 8.3 Onsite Power Systems**
 - 8.3.1 AC Power Systems**
 - 8.3.2 DC Power Systems**
 - 8.4 Station Blackout**

Section C.I.8, Electrical Power

Each section should provide:

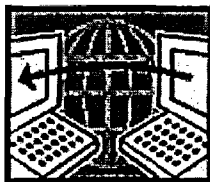
- **System Description**
- **Design - Basis Information**
- **Analysis**

COL Applications Referencing a Certified Design or Certified Design & Early Site Permit

- Section C.III.1, Chapter 8: Application referencing CD do not need to include additional information for the following Sections:
 - C.III.8.3.1.3: Electrical Power System Calculations, and Distribution System Studies for AC Systems
 - C.III.8.3.2.3: Electrical Power System Calculations, and Distribution System Studies for DC Systems
- Section C.III.2, Chapter 8: Application referencing CD & ESP

Note: COL applicants need to provide additional information identical to that identified in C.III.1, Chapter 8.

DG 1145 – Section C.IV.2 Submittal Guidance



10 July 2006

New Reactor Infrastructure Guidance Development Branch
Office of Information Services

Overview

- Content Highlights
 - Office of Nuclear Reactor Regulation (NRR)
 - Office of Information Services (OIS)
- Section References
- Questions

Content Highlights

- **C.IV.2.1 Background**
 - ADAMS Number ML061360240
 - Supplements existing NRC electronic submission information
 - Submit by mail or electronically
 - Summary of copies required based on the proposed 10 CFR Part 52 Rule
 - Table C.IV.2.2.1 - Addressees, copies

Content Highlights (cont'd)

- **C.IV.2.2 Electronic Submissions**
 - E-rule “Electronic Maintenance and Submission of Information” – effective January 2004 (68 FR 58792)
 - Supersedes previous information
 - Applicable Guidance
 - www.nrc.gov/site-help/eie/guid-elec-submission.pdf
 - Acceptable ways of submitting applications:
 - Electronic Information Exchange
 - e-mail
 - CD-ROM
 - Preferred medium for COL applications

Content Highlights (cont'd)

- **C.IV.2.2.1 File Format**
 - Portable Document Format (PDF)
 - Standard for NRC Official Agency Records
 - Versions
 - Output File Formats
 - Desk Reference Guide for PDF Document Generation
 - www.nrc.gov/site-help/ml051950465.pdf
 - Parameter Files available for download
 - <http://www.nrc.gov/site-help/eie.html> (Adobe 5.0, 6.0, 7.0)
 - Exceptions
 - Spreadsheets
 - Computer Models, Data Files

Content Highlights (cont'd)

- **C.IV.2.2.2 File Size**
 - 50 MB maximum file size
 - Allows significant content
 - Supports reasonable access and download performance
 - Exceptions for large graphics

Content Highlights (cont'd)

- **C.IV.2.2.3 Submission of Revised Information**
 - Re-submit entire document
 - Revision becomes a new submission to the NRC
- **C.IV.2.2.4 Submission Using CD-ROM**
 - Send to NRC (Table C.IV.2.2.1)
 - No File Access Restrictions
 - Public vs. Non-Public

Section References

- *Federal Register*, "Electronic Maintenance Submission of Information; Final Rule" (e-rule), 68 FR 58792, October 10, 2003, available on the NRC's public Web site at <http://www.nrc.gov/site-help/eie/10cfr1.pdf>. (Effective January 2004)
- *Federal Register*, "Licenses, Certifications, and Approvals for Nuclear Power Plants; Proposed Rules," 71 FR 12782, March 13, 2006.
- U.S. Nuclear Regulatory Commission, "Electronic Submittals — Electronic Information Exchange," Washington, DC, available on the NRC's public Web site at <http://www.nrc.gov/site-help/eie.html>.
- U.S. Nuclear Regulatory Commission, "Appendix A: United States Nuclear Regulatory Commission (NRC) Guidance for Electronic Submissions to the Commission" Washington, DC, available on the NRC's public Web site at <http://www.nrc.gov/site-help/eie/guid-elec-submission.pdf>.

Questions

