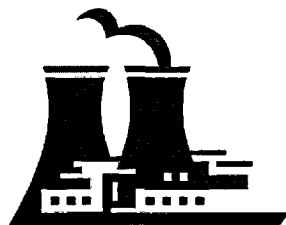


**DG-1145: Combined License Applications for  
Nuclear Power Plants (LWR Edition)**



**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**

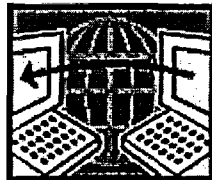
## COL Applications Referencing a Certified Design or Certified Design & Early Site Permit

- 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](http://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](http://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

