

**LICENSE FOR INDEPENDENT STORAGE OF SPENT NUCLEAR  
FUEL AND HIGH-LEVEL RADIOACTIVE WASTE  
SUPPLEMENTARY SHEET**

15. No spent nuclear fuel shall be allowed to be loaded until such time as the following preoperational license conditions are satisfied:
- A A training exercise (Dry Run) of all spent fuel storage cask loading and handling activities shall be held, which shall include, but not be limited to, those listed, and which need not be performed in the order listed:
    - a. Moving cask in and out of spent fuel pool area
    - b. Loading fuel assembly (using dummy assembly)
    - c. Cask drying, sealing, and cover gas backfilling operations
    - d. Moving cask to, and placing it on, the storage pad
    - e. Returning the cask to the auxiliary building
    - f. Unloading the cask
    - g. Decontaminating the cask
    - h. All dry-run activities shall be done using written procedures
    - i. The activities listed above shall be performed or modified and performed to show that each activity can be successfully executed before actual fuel loading.
  - B The Prairie Island Nuclear Generating Plant Emergency Plan shall be reviewed and modified, as required, to include the ISFSI.
  - C A training module shall be developed for the Prairie Island Nuclear Generating Plant Training Program, establishing an ISFSI Training and Certification Program that will include the following:
    - a. Cask Design (overview)
    - b. ISFSI Facility Design (overview)
    - c. ISFSI Safety Analysis (overview)
    - d. Fuel loading and cask handling procedures and off-normal procedures
    - e. ISFSI License (overview).
  - D The Prairie Island Nuclear Generating Plant Radiation Protection Procedures shall be reviewed and modified, as required, to include the ISFSI.
  - E The Prairie Island Nuclear Generating Plant Administrative Procedures shall be reviewed and modified, as required, to include the ISFSI.

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- F A procedure shall be developed and implemented for the documentation of the characterizations performed to select spent fuel to be stored in the casks. Such procedure shall include independent verification of fuel assembly selection by an individual other than the original individual making the selection.
- G A procedure shall be developed and implemented for two independent determinations (two samples analyzed by different individuals) of the boron concentration in the water used to fill the cask cavity for fuel loading and unloading activities.
- H Written procedures shall be implemented to describe actions to be taken during operation, off-normal, and emergency conditions.
16. The design, construction, and operation of the ISFSI shall be accomplished in accordance with the U.S. Nuclear Regulatory Commission Regulations specified in Title 10 of the U.S. Code of Federal Regulations. All commitments to the applicable NRC regulatory guides and to engineering and construction codes shall be carried out.
17. Fuel and cask movement and handling activities that are to be performed in the Prairie Island Nuclear Generating Plant Auxiliary Building will be governed by the requirements of the Prairie Island Nuclear Generating Plant Facility Operating Licenses (DRP-42 and -60) and associated Technical Specifications.
18. The TN-40HT confinement boundary base material and associated welds shall be helium leak tested at the fabricator in accordance with ANSI N 14.5 to "leaktight" criteria. The TN-40 confinement boundary base material and associated welds shall be helium leak tested at the fabricator in accordance with ANSI N14.5 to "leaktight" criteria, if fabricated after the date of Amendment No. 7 approval.
19. This license is effective as of the date of issuance shown below.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/ **B. J. Davis For**

Michele Sampson, Chief  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards  
Washington, DC 20555

Date of Issuance: October 19, 1993

As amended by  
Amendment No. 8 dated March , 2014