

STAFF EXHIBIT 40



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

November 3, 1995

Mr. Robert A. Williams, Project Manager
Westinghouse Electric Corporation
Commercial Nuclear Fuel Division
Drawer R
Columbia, South Carolina 29250

SUBJECT: RENEWAL (TAC NO. L21674)

Dear Mr. Williams:

In accordance with your applications dated April 30, 1990 and April 30, 1995, and supplements dated May 11, 18; August 4, 25; and September 25, 1995, and pursuant to Part 70 to Title 10 of the Code of Federal Regulations, Materials License SNM-1107 is hereby renewed. The license contains license conditions which were agreed upon in telephone conversations between you and Ms. E. M. Keegan of my staff.

You are hereby advised that any requests for amendment to this license should be submitted in the form of replacement pages to the applicable safeguards plan, or to the License Conditions section, as appropriate, and, if necessary, to the Safety Demonstration section with the changes or new items clearly identified. Any amendment application for a new process or major facility change should be supported with a multi-disciplinary safety analysis. This analysis should be well documented and integrate the disciplines of nuclear criticality safety, radiation safety, environmental protection, chemical safety, fire protection, and industrial safety.

This license is renewed for a 10-year term, expiring November 30, 2005. This renewal is issued following preparation of an Environmental Assessment (EA), and a Finding of No Significant Impact (FONSI) related to the continued operation of your plant. The FONSI dated July 12, 1995, was published in the Federal Register. Copies of the EA and FONSI were transmitted to you by letter dated July 12, 1995.

The Certificates of Compliance issued pursuant to 10 CFR Part 71 are not affected by this licensing action and remain in effect.

Mr. R. A. Williams

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Enclosed are copies of the renewed Materials License SNM-1107 and the Safety Evaluation Report.

If you have any questions regarding this licensing action, please contact the Project Manager, Ms. E. M. Keegan, at (301) 415-8136.

Sincerely,

Original signed by:

Robert C. Pierson, Chief
Licensing Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

Docket 70-1151
License SNM-1107
Renewal

Enclosures: 1. Materials License SNM-1107
2. Safety Evaluation Report

DISTRIBUTION: (Control No.3000)

Docket 70-1151

PUBLIC

NRC File Center

Region II

NMSS r/f

FCSS r/f

FCLB r/f

SHO

MMessier, LFDCB

PTing, FCOB

JRoth, FCOB

CBassett, RII

BHorn, FRIB

OFC	FCLB	E	FCLB	E	FCLB	E	FCLB	E	FCLB	
NAME	EKeegan: JM		DAHoadley		KHardin		DJoy		CGaskin	
DATE	10/24/95		10/26/95		10/24/95		10/1/95		10/24/95	

OFC	FCLB	E	FCOB		FCLB		FCLB	E
NAME	ADatta		WTroskoski		LRoché		RPierson	
DATE	10/25/95		10/24/95		10/26/95		10/3/95	

**SAFETY EVALUATION REPORT
FOR THE RENEWAL OF
SPECIAL NUCLEAR MATERIAL LICENSE SNM-1107
FOR THE**

**WESTINGHOUSE ELECTRIC CORPORATION
COLUMBIA FUEL FABRICATION FACILITY**

COLUMBIA, SOUTH CAROLINA

DOCKET 70-1151

SEPTEMBER 1995

- Correspondence chronological file.
- Historical conceptual plans and cost estimates.
- Historical facility radiological information.
- NRC guidance documents.
- EPA guidance documents.
- Decommissioning plan shell.
- Current conceptual plan and cost estimate.
- Financial assurance.

The cost estimate to terminate Materials License SNM-1107 will be reviewed for the need to update on a triennial basis.

The Westinghouse Electric Corporation Financial Assurance Certification was provided to NRC staff in a letter dated September 23, 1994. Future updates of this certification will be provided in accordance with prevailing conditions and/or regulatory directives.

The CFFF has followed available NRC guidance in preparing required information for their decommissioning file.

13. AUTHORIZATIONS AND EXEMPTIONS

13.1 Authorizations

Authorizations to Make Changes to License Commitments

(a) Changes Requiring Prior Approval

CFFF will not make changes to the License Application that decrease the effectiveness of commitments without prior NRC approval. For these changes, CFFF will submit to the NRC for review and approval an application to amend the license. The change will not be implemented until approval is granted.

(b) Changes not Requiring Prior Approval

CFFF has requested authorization to make changes to the commitments in the License Application without prior approval, provided that the changes do not decrease the effectiveness of the approved commitments. This authorization will allow Westinghouse to make changes in a facility or process upon documented completion of an ISA for that facility or process, or conduct tests or activities not presented in the application, without prior NRC approval, subject to the following conditions:

1. There is no degradation in the safety commitments in the license application.

2. The change, test, or activity does not impair the licensee's ability to meet all applicable Federal regulations.
3. The change, test, or activity does not conflict with any requirement specifically stated in the license.

Records of such changes will be maintained, including technical justification and management approval, in dedicated datapacks to enable NRC inspection upon request at the facility. A report containing a description of each change, and revised pages to the License Application will be submitted to the NRC within 3 months of implementing the change.

Authorization for Leak-Testing Sealed Plutonium Sources

CFFF has requested authorization for leak-testing sealed plutonium sources. Each sealed plutonium source in use will be leak-tested at least semiannually. Sealed plutonium sources that are stored and not used will be exempt from leak-testing. However, these sources will be leak-tested prior to use or transfer, unless they have been leak-tested within the six months preceding the use or transfer. CFFF's request for leak-testing sealed plutonium sources is consistent with accepted industry practice. CFFF has received approval for this authorization in the past and, therefore, continued approval of the authorization is recommended.

Authorization for Possession at Reactor Sites

CFFF has requested authorization to possess unirradiated fuel assemblies at nuclear reactors anywhere in the United States, for the purpose of loading them into shipping packages and delivering them to an authorized carrier for transport in accordance with the regulations. This request is consistent with accepted industry practice. CFFF has received approval for this authorization in the past and, therefore, continued approval of the authorization is recommended.

Authorization for Use at Offsite Locations

CFFF has requested authorization to use up to 15 grams of U-235 in unirradiated uranium for demonstration or testing purposes at offsite locations in the United States, except for Agreement States. This material will be subject to the following controls:

- While not in authorized transport, the material will be subject to control by a Westinghouse Electric Corporation representative approved by the Manager of Regulatory Affairs.
- The approved representative will be cognizant of, and will assure compliance with, the radiation protection requirements of the regulations, license conditions, and Westinghouse policies and procedures.
- The approved representative will assure that there will be no commingling of this material with other special nuclear material, such that the total mass of U-235 would exceed 350 grams.

This request is consistent with accepted industry practice. CFFF has received approval for this authorization in the past and, therefore, continued approval of the authorization is recommended.

Authorization for Transfer of Hydrofluoric Acid

CFFF is requesting authorization to transfer aqueous hydrofluoric acid containing trace quantities of uranium to non-licensed receivers with the following conditions:

- Prior to first unrestricted sale or other transfer of the subject material to each receiver, a detailed plan for such sale or transfer will be submitted to the NRC for review and approval.
- Prior to transfer of the hydrofluoric acid from Westinghouse, each shipment must be representatively sampled and analyzed; and the following maximum permissible concentrations will not be exceeded: (1) a uranium enrichment of 5 weight percent U-235; (2) a uranium concentration of 3 parts-per-million by weight; and (3) a hydrofluoric concentration in the acid solution of 55 percent by weight.
- Particular attention will be paid to each sale or transfer to assure that the hydrofluoric acid is not to be used for any purpose resulting in human consumption.

Authorization for Transfers of Non-Regulated Material

CFFF has requested authorization to transfer non-regulated material, such as calcium fluoride and other homogeneous mixtures, in which the mean concentration of total uranium does not exceed 30 picocuries per gram to receivers for offsite calcium fluoride drying and briquette manufacturing, or brick manufacturing, or disposal at a chemical disposal site or industrial landfill. This request is consistent with accepted industry practice. CFFF has received approval for this authorization in the past and, therefore, continued approval of the authorization is recommended.

Authorization to Release Contaminated Records

CFFF has requested authorization to release contaminated records. The types of records would be papers, notebooks, computer print-outs, films, and/or similar items retained for record purposes. Prior to transfer from contamination control areas, the document will be surveyed with an appropriate survey instrument to ensure the following limits are not exceeded:

- Average uranium-alpha contamination will be less than 220 dpm per 100 square centimeters, and the maximum uranium-alpha contamination will be less than 2,200 dpm per 100 square centimeters.
- Average beta-gamma contamination will be less than 660 dpm per 100 square centimeters and the maximum beta-gamma contamination will be less than 6,600 dpm per 100 square centimeters.

This request is consistent with accepted industry practice. CFFF has received approval for this authorization in the past and, therefore, continued approval of the authorization is recommended.