

Westinghouse Electric Corporation

Power Systems

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U.S. NUCLEAR REGULATORY COMMISSION

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Nuclear Fuel Division  
Manufacturing Department

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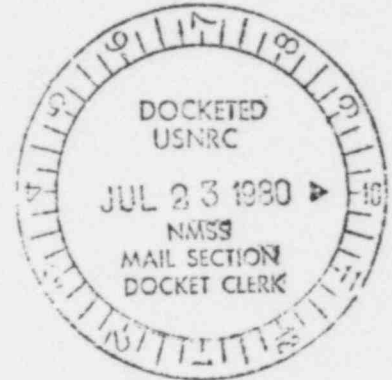
June 30, 1980

U. S. Nuclear Regulatory Commission  
Office of Nuclear Material Safety & Safeguards  
Division of Fuel Cycle and Material Safety  
Washington, D. C. 20555

Attention: Mr. W. T. Crow, Section Leader  
Uranium Processing Licensing Section

Gentlemen:

Subject: License SNM-1107, Docket 70-1151  
UF<sub>6</sub> Cylinder Recertification Facility



The Westinghouse Electric Corporation hereby submits information concerning the construction and use of a new facility for recertification of UF<sub>6</sub> cylinders in accordance with 49 CFR 173.396 and DOE Report No. ORO-651. The new facility will be an extension to the existing Waste Storage Building which is described in the existing license.

Environmental effects of the building construction are minimal as described in the enclosure to this letter.

Cylinder recertification is currently authorized in subparagraph 2.1.2 of SNM-1107 as a quality assurance testing operation.

Consequently, we feel that a license amendment is not necessary. Construction is expected to begin as early as mid-August. If you have any questions regarding this matter, please write to me at the above address or telephone me at (803) 776-2610 Ext. 395.

Very truly yours,

WESTINGHOUSE ELECTRIC CORP.

*Edward Reiter*  
E. K. Reiter  
Fellow Engineer

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cc: R. P. DiPiazza, Manager  
NES License Administration

**FEE EXEMPT**

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UF<sub>6</sub> CYLINDER RECERTIFICATION FACILITY

PURPOSE

The purpose of the UF<sub>6</sub> Cylinder Recertification Facility is to provide an area for inspecting and testing UF<sub>6</sub> cylinders in accordance with 49 CFR 173.396 and DOE Report No. ORO-651.

LOCATION

The UF<sub>6</sub> Cylinder Recertification Facility is an approximately 44' X 30' extension to the existing Waste Storage Building.

BUILDING CONSTRUCTION

The building is a "Butler" design which is structurally similar to the contiguous Waste Storage Building, except that the UF<sub>6</sub> Cylinder Recertification Area is completely enclosed. The building is constructed on a concrete slab, with floor drains which are connected to the adjacent lagoon.

BUILDING USE

The building is used for the recertification of UF<sub>6</sub> cylinders as required by 49 CFR 173.396 and DOE Report No. ORO-651. Cylinders to be recertified are washed by a vendor and shipped to the Westinghouse Columbia Plant. The cylinders are then inspected, tested for wall thickness, hydrostatic tested, pressure tested with nitrogen, equipped with new cylinders valves, etc. in accordance with DOE Report No. ORO-651.

Building services include electricity, nitrogen and city water for testing purposes.

Storage tanks are provided for hydro-test water and for hold-up capability to permit radiological analyses following hydro-testing.

RADIOLOGICAL SAFETY

Since the cylinders are washed by a vendor prior to recertification, radiological concerns are limited to residual radioactivity inside the cylinders. Upon receipt of the cylinders at the Westinghouse Columbia Plant, an external beta-gamma survey will be performed for each cylinder as a screening method to assure that gross radioactivity has been removed in the washing process.

The hydro-test water will be transferred to a hold tank, sampled and analyzed for alpha and beta-gamma prior to dispositioning in accordance with SNM-1107.

Because of the small quantities of radioactive materials involved, surface contamination and airborne radioactivity problems are not anticipated. However, the Radiation Protection Component will evaluate the operation and initiate the appropriate protective actions, e.g. contamination controls, air sampling, etc. in accordance with SNM-1107.

In summary, no significant radiological safety problems are expected.

#### NUCLEAR CRITICALITY SAFETY

Since the cylinders are washed by a vendor prior to recertification, nuclear criticality safety concerns are minimal. The external monitoring screening check described above will verify that SNM has been removed.

#### ENVIRONMENTAL

The environmental impact of building construction will be limited to the excavation of an approximately 1,300 ft<sup>2</sup> area. Conventional construction techniques will be used. The total committed land area remains well below that estimated in the 1975 Westinghouse Environmental Evaluation.

All water used in the hydro-testing will be sampled and analyzed prior to discharge to assure that radioactivity concentrations do not exceed 10 CFR 20, Appendix B, Table II limits. If these concentration limits are exceeded, the liquid is treated to reduce levels to permissible limits.

Consequently, environmental concerns are expected to be minimal.