

MATERIALS LICENSE

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number: SNM-33

Docket or Reference Number: 070-36

Amendment No. 57

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and the applicable parts of Title 10, Code of Federal Regulations, Chapter I, Parts 19, 20, 30, 31, 32, 33, 34, 35, 36, 39, 40, 51, 70, and 71, and in reliance on statements and representations heretofore made by the licensee, a licensee is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee				
1.	Westinghouse Electric Company LLC	3.	License Number	SNM-33
2.	3300 State Road P Festus, Missouri 63028	4.	Expiration Date	License is continued until decommissioning is complete and the U.S. Nuclear Regulatory Commission notifies Westinghouse Electric Company LLC in writing that the license is terminated.
		5.	Docket or Reference Number	070-00036
6.	Byproduct, Source, and/or Special Nuclear Material:	7.	Chemical and/or Physical Form:	8. Maximum Amount that Licensee May Possess at Any One Time Under This License:

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| <p>A. Uranium enriched to a maximum of less than 10 weight percent in the U-235 isotope</p> <p>B. Uranium enriched greater than or equal 10 weight percent and less than 20 weight percent in the U-235 isotope</p> <p>C. Uranium enriched greater than or equal to 20 weight percent in the U-235 isotope</p> <p>D. Uranium (natural or</p> | <p>A. Any (including only metal powders existing at the Hematite Site on July 1, 2001)</p> <p>B. Any (including only metal powders existing at the Hematite Site on July 1, 2001)</p> <p>C. Any (including only metal powders existing at the Hematite Site on July 1, 2001)</p> <p>C. Any (including only metal</p> | <p>A. 10,000 kilograms U-235</p> <p>B. 9,999 grams U-235</p> <p>C. 4,999 grams U-235*</p> <p>C. 2,000 kilograms</p> |
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14. Licensee is hereby granted permission to demolish or dismantle buildings including building slabs and foundations. However, the Licensee is not permitted to exhume material from the documented burial pit areas or those areas suspected of having undocumented burial pits.
15. Notwithstanding the requirement of 10 CFR 70.24, the licensee shall be exempted from the "monitoring system" requirements in the areas, and under the conditions specified below:
- A. Low concentration materials (1.4 g U-235/L for solids, and 11.6 g U-235/L for liquids) that are safely subcritical by virtue of their low concentration, irrespective of any other physical conditions, including mass, geometry, moderation, reflection, etc.
 - B. Materials that are contained in authorized packages as defined in NRC/DOT regulations, including 10 CFR 71 and 49 CFR 173.
 - C. Materials within neutronically separate areas containing less than the following isotopic mass amount per separate area:
 - 1. 700 g U-235 in uranium enriched to more than 5 wt.% U-235/U, and
 - 2. 1640 g U-235 in uranium enriched to no more than 5 wt.% U-235/U.

Notes: (1) Structure surfaces within the separate area that contain residual U-235 surface contamination below an areal density of 10 g U-235/ft² are not included in the mass amount for the separate area.

(2) Any U-235 in undisturbed subsurface areas is not included in the isotopic mass amount for the separate area.

(3) Neutronically separated areas are to be considered effectively neutronically isolated from all other areas used to store fissile material when either of the following conditions are satisfied:

 - a. A minimum edge-to-edge separation distance of 12 feet is maintained between each area used to store fissile material; or
 - b. The configuration of each area used to store fissile material, in conjunction with any present fixed shielding (e.g., concrete block walls) between the areas, is demonstrated by neutron transport calculations to result in effective neutron isolation between each area.
 - D. Residual materials on surfaces of the site buildings or installed equipment in those buildings including removal and transit of those SNM-bearing materials

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from the buildings. (Any SNM-bearing materials brought into site buildings must satisfy another provision in this Section 1.6.2 to meet the exemption.)

- E. A Contingency Hot Spot that is in secure storage, is neutronically isolated from other SNM, and is intrinsically safe due to two of its physical parameters (e.g., mass, volume, enrichment, geometry, moderation) being in a known state that is sufficient to render the item safely subcritical. The term 'Contingency Hot Spot' is defined in the *Nuclear Criticality Safety Contingency Plan for Remediating Contingency Hot Spots*. The term 'secure storage' is defined as an area in which dual controlled entry is required as well as tandem operations with oversight.
16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. License Application dated July 5, 2011.
 - B. Letter July 5, 2011.
 - C. Documents identified in Chapter 1 of NRC Decommissioning Plan SER (ML112101630).
 - D. Westinghouse Document May 5, 2011, *Evaluation of Technetium-99 Under the Process Buildings*. HEM-11-56, (ML111260624).
17. Notwithstanding the requirement of 10 CFR 70.22(a)(4), the licensee shall be exempted from the possession limit requirements of requirements of 6.C, 7.C and 8.C above with respect to the SNM covered by the Settlement Agreement, Consent Order and Final Judgment entered by the United States District Court for the Eastern District of Missouri – Eastern Division in *Westinghouse Electric Company, LLC v. the United States of America*, et al, Case 4:03-cv-00861-CDP (ML112630111) subject to the condition specified below:
- If the licensee discovers any such SNM during decommissioning, the SNM shall be handled in accordance with the approved Physical Security Plan, Fundamental Nuclear Material Control Plan, and Nuclear Criticality Contingency Plan for Remediating Contingency Hot Spots.

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FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Date: 10/13/11

Keith I. McConnell, Deputy Director
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs

