

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

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter 1, Part 72, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, and possess the power reactor spent fuel and other radioactive materials associated with spent fuel storage designated below; to use such material for the purpose(s) and at the place(s) designated below; and 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 herein.

Licensee

1. General Electric Company

3. License No. SNM-2500

Amendment No. Amendment 12
December, 2004

2. General Electric Company
7555 East Collins Road
Morris, Illinois

4. Expiration Date May 31, 2022

5. Docket or
Reference No. 72-1

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

A. Fuel assemblies from reactors using natural water for cooling and enriched not greater than 5 percent U-235. These fuel as and associated materials related to **storage and transfer** of fuel assemblies will possibly contain:

A. As UO_2 clad with zirconium or zirconium alloys.

A.

1. Uranium 235
2. Plutonium
3. Fission Products

1. 37.5 MT
2. 9.0 MT
3. 2.5×10^9 Ci

B. Byproduct and special nuclear material

B. As solutions, calibration discs sealed source or in other form specific in Table A.

B. Quantities possessed be no greater than that specified in Table A.

9. Authorized Use: The material identified in 6.A. and 7.A above is authorized for possession and storage at the Morris Operation, and transfer as described in NEDO-21326, the approved General Electric Morris Operation Consolidated Safety Analysis Report*, as supplemented and amended in accordance with 10 CFR 72.70 and 10 CFR 72.48. Material identified in 6.B., 7.B., and 8.b. is to be used for calibration and standardization purposes.

10. Authorized Place of Use: The licensed material is to be possessed, transferred, and stored at the Morris Operation located in Grundy County, Illinois, near Morris, Illinois. This site is described in Chapters 1 and 3 of, the licensee's CSAR for the Morris Operation.

*Hereafter referred to in this license as the CSAR

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Table A Authorized materials - instrument, calibration, and laboratory sources

| Materials | Chemical and/or Physical Form | Quantity |
|--|----------------------------------|-----------------------------|
| Radionuclides with atomic numbers ranging from 1 to 83 | Solution or calibration disc | Total Aggregate of 5 curies |
| Cobalt-60 | Sealed source | 10 curies |
| Cesium-137 | Sealed source | 10 curies |
| Thorium-230 | Any | 1 millicurie |
| Neptunium | Any | 20 grams |
| Plutonium | Any | 50 grams |
| Uranium-235 | Any | 250 grams |
| (In uranium of any enrichment) | | |
| Americium-241 | Any | 200 FCi |
| Americium-241 | Sealed source | 40 curies |
| Plutonium-Beryllium | Sealed source | 2 curies |
| Uranium-natural | Any | 15 kilograms |

11. Pursuant to 10 Cfr 40 the licensee is authorized to possess, store, and transfer a combined quantity of unirradiated natural and unirradiated depleted uranium not to exceed 42 tonnes. This limitation does not include uranium in stored fuel or uranium used in construction of shipping casks. Natural UO_3 , UO_2 , UNH, and UF_6 , used during MFRP testing may be stored in process vessels in the Canyon area or in the site warehouse.
12. No changes shall be made to the Radiological Emergency Plan for Morris Operation, NEDO-31955, which would decrease the effectiveness of the emergency plan without the prior approval of the Commission as evidenced by a license amendment. The license shall maintain implementing procedures for the Radiological Emergency Plan as necessary. The license shall maintain records of changes that are made to the plan without prior approval for a period of two years from the date of the change. Within six months of such change the licensee shall furnish the Director, Office of Nuclear materials Safety and Safeguards, and the NRC Region III Office and report containing a description of each change.
13. The Technical Specifications contained in Appendix A attached hereto, as revised through Amendment 12, are incorporated into the license. The licensee shall operate the installation in accordance with the Technical Specifications in Appendix A. Appendix A contains Technical Specifications related to Environmental Protection to satisfy the requirements of 10 CFR 72.44(d)(2).
14. The licensee shall follow the physical protection plan entitled "Physical Security Plan for Morris Operation, NEDS-14507," Revision D5, dated April 1995; and as it may be further amended under the provisions of 10 CFR Parts 72.44(e) and 72.180. The requirements of 10 CFR Part 73, Appendix B for guard training and qualification are incorporated in Section 4.0, "Security Operation Policy," of the approved security plan. The requirements of 10 CFR, Part 73, Appendix C, for contingency planning are addressed in Section 9.0 of the physical security plan.

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Amendment No.

12

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15. This license is effective as of the date of issuance shown below.

FOR THE NUCLEAR REGULATORY COMMISSION

John Monninger, Chief
Licensing Section
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards
Washington, DC 20555

Date of Issuance: May 4, 1982

As amended by Amendment 12 dated _____, 2004

