

U.S. DEPARTMENT OF ENERGY
IDAHO OPERATIONS OFFICE
DOCKET NO. 72-20
TMI-2 INDEPENDENT SPENT FUEL STORAGE INSTALLATION
AMENDMENT TO MATERIALS LICENSE

Amendment 4
License SNM-2508

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The amendment application dated January 31, 2005, as supplemented June 9, 2005, meet standards and requirements of the Atomic Energy Act of 1954, as amended (Act), and the Commission's regulations set forth in 10 CFR Chapter I.
 - B. The TMI-2 ISFSI will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission.
 - C. There is reasonable assurance (1) that the activities authorized by this license can be conducted without endangering the health and safety of the public and (2) such activities will be conducted in compliance with the Commission's regulations.
 - D. The issuance of this license will not be inimical to the common defense and security or to public health and safety.
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by the enclosed changes to Materials License SNM-2508.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA By Michael Markley Acting For/

Robert J. Lewis, Chief
Licensing Section
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

Enclosure: Amended Pages 1-2

Date of Issuance: June 30, 2005

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. United States Department of Energy	3. License No. SNM-2508 Amendment No. 4
2. Idaho Operations Office 1955 Fremont Avenue Idaho Falls, ID 83415	4. Expiration Date March 19, 2019
	5. Docket or Reference No. 72-20

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| 6. Byproduct, Source, and/or Special Nuclear Material

A) Radioactive material from the Three Mile Island Unit 2 (TMI-2) reactor core damaged by the March 28, 1979, reactor accident, including the remains of 177 Babcox and Wilcox 15x15 fuel assemblies with a maximum of 2.98% U-235 isotope, 61 control rod assemblies, and miscellaneous irradiated core and core basket material.

B) Radioactive material related to receipt, storage, and transfer of the above radioactive material, including 267 fuel canisters, 12 knockout canisters, and 62 filter canisters used to confine the above TMI-2 core debris in the absence of intact fuel assembly cladding. | 7. Chemical and/or Physical Form

A) As debris consisting of significantly damaged fuel and control assemblies and non-fuel reactor components in the form of partially intact assemblies, conglomerate core material, previously molten materials, rubble, and fines. | 8. Maximum Amount That Licensee May Possess at Any One Time Under This License

A) 82,985.9 kg U initially contained in the fuel assemblies of the damaged TMI-2 reactor core, contained in roughly 139,293 kg of material removed from the TMI-2 reactor vessel. |
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9. Authorized Use: For use in accordance with the statements, representations, and conditions of the Technical Specifications and Safety Analysis Report (SAR). The materials identified in 6.A, 6.B, and 7.A above are authorized for receipt, possession, storage, and transfer.
10. Authorized Place of Use: The licensed material is to be received, possessed, transferred, and stored at the TMI-2 ISFSI located at the Idaho National Laboratory within the perimeter of the Idaho Nuclear Technology and Engineering Center site in Scoville, Idaho.
11. The Secretary of Energy has delegated (Delegation Order No. 10CFR72.512.1) the Manager, Department of Energy, Idaho Operations Office, as the Secretary's authorized representative in all matters regarding this license and future amendments thereto and informed the Commission of this delegation in writing on October 31, 1996.

NRC FORM 588A (10-2000) 10 CFR 72 LICENSE FOR INDEPENDENT STORAGE OF SPENT NUCLEAR FUEL AND HIGH-LEVEL RADIOACTIVE WASTE SUPPLEMENTARY SHEET	U. S. NUCLEAR REGULATORY COMMISSION		PAG 2 OF 2 PAGES
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12. Pursuant to 10 CFR 72.7, the licensee is hereby exempted from the following:
- a) Requirements of 10 CFR 72.102(f)(1) related to the specified seismic design criteria of 10 CFR Part 100, Appendix A.
 - b) Requirements of 10 CFR 20.1501(c) to use NVLAP accredited dosimetry and instead is authorized to use DOELAP dosimetry.
 - c) Requirement of 10 CFR 72.124(b) that the design of the ISFSI shall provide for positive means to verify the continued efficacy of solid neutron absorbing materials.
 - d) Requirements of 10 CFR 72.82(e) that a report of the preoperational test acceptance criteria and test results be submitted at least 30 days prior to loading the ISFSI.
13. The Technical Specifications contained in Appendix A attached hereto are incorporated into the license. The licensee shall operate the installation in accordance with the Technical Specifications in Appendix A.
14. For the duration of the license, the licensee shall inform the Director, NMSS, at least 90 days in advance, of the replacement of the entity contracted by DOE-ID to perform the management and operation (the DOE contractor) of the TMI-2 ISFSI.
- Within 180 days after the replacement of the DOE contractor, the licensee shall assess the performance of the DOE contractor and provide a statement to the NRC verifying that the replacement of the DOE contractor has had no effect on the execution of licensed responsibilities for the TMI-2 ISFSI.
15. DOE-ID shall be responsible for requesting necessary funds from Congress to ensure compliance of TMI-2 ISFSI operations and decommissioning under this license. DOE-ID will notify the Nuclear Regulatory Commission, in writing, of any anticipated or forecasted budget shortfalls, as soon as they are known, along with a plan detailing the specific measures that will be taken by DOE-ID to obtain the required funding and/or prevent adverse impacts on ISFSI operations.
16. This license is effective as of the date of issuance shown below.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION
/RA By Michael Markley Acting For/

Robert J. Lewis, Chief
 Licensing Section
 Spent Fuel Project Office
 Office of Nuclear Material Safety
 and Safeguards
 Washington, DC 20555

Date of Issuance
 March 19, 1999

As amended by
 Amendment 4 dated: June 30, 2005

Attachment: Appendix A - Technical Specifications