

MATERIALS LICENSE

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 I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license 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 S*

1. Public Service Company of New Hampshire

3. License number SNM-1963

2. P.O. Box 300
Seabrook, New Hampshire 03874

4. Expiration date December 1, 1990, or **

5. Docket or
Reference No. 70-30276. Byproduct, source, and/or
special nuclear material7. Chemical and/or physical
form8. Maximum amount that licensee
may possess at any one time
under this license6. Material7. Form8. QuantityA. Uranium enriched
in U-235 isotopeA. In unirradiated
fuel assembliesA. 3,300 kg of U-235 in
uranium enriched to no
more than 3.55 w/o
U-235B. Uranium-238
Neptunium-237B. Irradiation test
capsulesB. 25.0×10^{-3} microcuries
U-238, 75.0 microcuries
Np-237C. Uranium enriched
in U-235 isotopeC. Incore fission
detectorsC. 70 milligrams of
uranium enriched to 93%
w/o U-235.D. Uranium enriched
in U-235 isotope

D. Excore detectors

D. 50 grams of uranium at
any enrichmentE. Pu-238, Pu-239,
U-235, U-238

E. Any Form

E. 100 microcuries Pu-238
100 microcuries Pu-239
200 microcuries U-235
300 microcuries U-2388512260365 851219
PDR ADOCK 07003027
C PDR

*Public Service Company of New Hampshire is authorized to act as agent for The United Illuminating Company, Massachusetts Municipal Wholesale Electric Company, New England Power Company, Central Maine Power Company, The Connecticut Light and Power Company, Canal Electric Company, Montaup Electric Company, Bangor Hydro-Electric Company, New Hampshire Electric Cooperative, Inc., Central Vermont Public Service Corporation, Maine Public Service Company, Fitchburg Gas and Electric Light Company, Vermont Electric Generation and Transmission Cooperative, Taunton Municipal Lighting Plant, and Hudson Light and Power Department, and has exclusive responsibility and control over the physical construction, operation, and maintenance of the facility.

**Upon conversion of Construction Permit No. CPPR-135 to an operating license, whichever is earlier.

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9. Authorized Use:

For receipt, possession, inspection, storage, packaging of fuel assemblies, and other special, source, and byproduct materials for delivery to a carrier in accordance with the statements, representations, and conditions specified in PSNH's application dated August 1, 1985, and its supplement dated October 24, 1985, except as specifically provided otherwise by this license.

10. Authorized Place of Use:

PSNH's Seabrook Station, Unit 1, located near the town of Seabrook, Rockingham County, New Hampshire, as described in the aforesaid application.

11. The minimum technical qualifications for the Station Manager shall be in accordance with Section 4.2.1, "Plant Manager," ANSI/ANS 3.1-1978.

12 a. No more than two fuel assemblies shall be out of approved shipping containers or fuel assembly storage racks at any one time.

b. PSNH shall maintain a minimum edge-to-edge distance of 12 inches:

1. Between the above two fuel assemblies,
2. Between fuel assemblies (out of storage) and the shipping container array, and
3. Between fuel assemblies (out of storage) and the storage rack arrays.

13. No more than 60 loaded shipping containers shall be allowed onsite at any one time.

14. No shipping container shall be outside for more than 72 hours from time of receipt onsite.

15. New fuel assemblies may be stored in the new fuel storage vault subject to the following conditions:

- a. The maximum U-235 enrichment shall be 3.55 w/o.
- b. The maximum number of fuel assemblies that shall be stored in the new fuel storage area shall be 12.
- c. The fuel assemblies shall be stored dry in a checkerboard pattern.
- d. The Reactor Engineering Department Supervisor or equivalent qualified designee shall verify correct fuel assembly location after insertion into the assigned storage location in accordance with a prepared written procedure approved by the Station Manager.

16. PSNH is hereby exempted from the provisions of 10 CFR 70.24 insofar as this section applies to materials held under this license.

17a. The irradiation test capsules and radioactive sources shall be used by or under the supervision of individuals designated by the Health Physics Department Supervisor or an equivalent qualified alternate.

- b. The incore fission and excore detectors shall be used by or under the supervision of individuals designated by the Reactor Engineering Supervisor or an equivalent qualified alternate.

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18. PSNH shall comply with the provisions of Annex A, "License Condition for Leak Testing Sealed Source Which Contains Alpha Emitters."
19. PSNH shall maintain and fully implement all provisions of the Commission approved Physical Security Plan, including any changes that may be made pursuant to the authority of 10 CFR 70.32(e). The approved Physical Security Plan consists of PSNH's submitted Plan titled "Seabrook Station Physical Security Plan for the Protection of Nuclear Material of Low Strategic Significance," dated May 28, 1985. The Physical Security Plan identified by this condition shall be withheld from public disclosure pursuant to 10 CFR 2.790(d).



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date:

DEC 18 1985

By:

Original Signed By:

W. T. Crow

Division of Fuel Cycle and
Material Safety, NMSS
Washington, D.C. 20555

Handwritten notes:
KK RK VLT WSC
11/18/85 11/20/85 11/24/85 12/19/85
2/18/85