

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.

Licensees*

Duke Power Company

North Carolina Municipal Power Agency Number 1

1. North Carolina Electric Membership Corporation License number

SNM-1949

Piedmont Municipal Power Agency

2. Saluda River Electric Cooperative, Inc.

P. O. Box 33189

Charlotte, North Carolina

4. Expiration date July 9, 1990, or **

5. Docket or
Reference No. 70-30026. Byproduct, source, and/or
special nuclear materialA. Uranium enriched in the
U-235 isotopeB. Uranium enriched in the
U-235 isotope

C. Plutonium-238

7. Chemical and/or physical
formA. In unirradiated reactor
fuel assemblies

B. Fission chambers

C. Pu-Be neutron source

8. Maximum amount that licensee
may possess at any one time
under this licenseA. 2150 Kilograms of
U-235 in uranium
enriched to no more
than 3.15 w/o U-235B. 60 milligrams U-235
in uranium at any
enrichment

C. 5 curies Pu-238

9. Authorized Use:

For receipt, possession, inspection, storage, and packaging of fuel for delivery to a carrier in accordance with the statements, representations, and conditions specified in the DPC's application dated June 20, 1984, and its supplements dated January 18, June 19, June 21, and July 1, 1985.

10. Authorized Place of Use:

The Catawba Nuclear Station, Unit 2, located in York County, South Carolina, as described in the aforesaid application.

* Duke Power Company (DPC) is authorized to act as agent for the North Carolina Municipal Power Agency Number 1, North Carolina Electric Membership Corporation, Piedmont Municipal Power Agency, and the Saluda River Electric Cooperative, Inc., and has exclusive responsibility and control over the physical construction, operation, and maintenance of the facility.

** Upon conversion of Construction Permit No. CPPR-117 to an operating license, whichever is earlier.

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11. The minimum technical qualifications for the Station Manager shall be in accordance with Section 4.2.1, "Plant Manager," ANSI N18.1-1971.
12. The minimum technical qualifications for Superintendent of Operations shall be in accordance with Section 4.3.2, "Supervisors Not Requiring AEC Licenses," ANSI N18.1-1971.
13. The minimum technical qualifications for Reactor Engineer shall be in accordance with Section 4.4.1, "Reactor Engineering," ANSI N18.1-1971.
14. The minimum technical qualifications for System Health Physicist shall be in accordance with the requirements for "Radiation Protection Manager," Regulatory Guide 1.8, September 1975.
15. All preoperational testing of fuel handling equipment related to activities authorized by this license shall be reviewed and approved by DPC before receipt of fuel onsite. Final review and approval of all preoperational testing of fuel handling equipment shall be required by the Superintendent of Operations or equivalent qualified designee. This includes the testing of the following:
 - a. New Assembly Handling Fixture,
 - b. Rod Cluster Control Assembly (RCCA) Handling Fixture,
 - c. New Fuel Elevator,
 - d. Spent Fuel Pool Manipulator Crane,
 - e. Indexing of Spent Fuel Pool Manipulator Crane,
 - f. Whiting 10 Ton Crane,
 - g. New Fuel Storage Racks in the New Fuel Storage Vault, and
 - h. Spent Fuel Storage Racks in the Spent Fuel Storage Facility.
16.
 - a. No more than a total of two fuel assemblies shall be out of approved shipping containers or fuel assembly storage racks at any one time.
 - b. The minimum edge-to-edge distance between the above two fuel assemblies, the shipping container array, and the storage rack arrays shall be 12 inches.
17. Fuel assemblies shall be stored in such a manner that water would drain freely from the assemblies in the event of flooding and subsequent draining of the fuel storage area.
18. New fuel assemblies may be stored in the Spent Fuel Storage Facility subject to the following conditions:
 - a. The maximum U-235 enrichment shall be 3.15 w/o.
 - b. The fuel assemblies shall be stored dry in a checkerboard pattern.

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- c. The Reactor Engineer or equivalent qualified designee shall verify correct fuel assembly location after insertion of each assembly into the assigned storage rack in accordance with a prepared written procedure approved by the Superintendent of Operations or equivalent qualified designee.
- d. An independent loading verification shall be made by a Quality Control Inspector.
- e. The Reactor Engineer or equivalent qualified designee and the Quality Control Inspector shall each sign a document assuring proper storage each fuel assembly.
19. DPC is hereby exempted from the provisions of 10 CFR 70.24 insofar as this section applies to materials held under this license.
20. DPC shall comply with provisions of Annex A, "License Condition for Leak Testing Sealed Plutonium Sources."
21. DPC shall maintain and fully implement all provisions of the Commission approved Physical Security Plan, including any changes made pursuant to the authority of 10 CFR 70.32(e). The approved Physical Security Plan consists of DPC's initially submitted Plan titled, "Catawba Nuclear Station (Unit 2) SNM of Low Strategic Significance Storage and In-Transit Security Plan," dated April 26, 1985, and as amended by Attachment 1 to DPC's letter dated June 19, 1985. The Physical Security Plan identified by this condition shall be withheld from public disclosure pursuant to 10 CFR 2.790(d).

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed By:

W. T. Crow

Date:

JUL 10 1985

By:

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

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ANNEX A

LICENSE CONDITION FOR LEAK TESTING
SEALED PLUTONIUM SOURCES

- A. Each plutonium source shall be tested for leakage at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcuries of alpha contamination on the test sample. The test sample shall be taken from the source or from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable alpha contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired by a person appropriately licensed to make such repairs or to be disposed of in accordance with the Commission regulations. Within five (5) days after determining that any source has leaked, the licensee shall file a report with the Division of Fuel Cycle and Material Safety, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, describing the source, the test results, the extent of contamination, the apparent or suspected cause of source failure, and the corrective action taken. A copy of the report shall be sent to the Director of the nearest NRC Inspection and Enforcement Office listed in Appendix D of Title 10, Code of Federal Regulations, Part 20.
- D. The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six (6) months prior to the date of use or transfer.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Docket No. 50-413

AMENDMENT TO INDEMNITY AGREEMENT NO. B-100
AMENDMENT NO. 5

Effective ~~JUL 10 1984~~ **JUL 10 1985**, Indemnity Agreement No. B-100, between Duke Power Company, North Carolina Electric Membership Corporation and Saluda River Electric Cooperative, Inc. and the Nuclear Regulatory Commission, dated January 3, 1984, as amended, is hereby further amended as follows:

Item 1 of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 1 - Licensees

Duke Power Company
North Carolina Municipal Power Agency Number 1
North Carolina Electric Membership Corporation
Saluda River Electric Cooperative, Inc.
Piedmont Municipal Power Agency

Address: 422 South Church Street
Charlotte, North Carolina 28201

Item 3 of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 3 - License number or numbers

SNM-1920	(From 12:01 a.m., January 3, 1984 to 12 midnight July 17, 1984 inclusive)
SNM-1949	(From 12:01 a.m., JUL 10 1985)
NPF-24	(From 12:01 a.m., July 18, 1984 to 12 midnight December 5, 1984 inclusive)


NPF-31

(From 12:01 a.m., December 6, 1984 to
12 midnight January 16, 1985
inclusive)

NPF-35

(From 12:01 a.m., January 17, 1985)

FOR THE U. S. NUCLEAR REGULATORY COMMISSION


Jerome Saltzman, Assistant Director
State and Licensee Relations
Office of State Programs

Accepted _____

Accepted _____

By _____
DUKE POWER COMPANY

By _____
NORTH CAROLINA MUNICIPAL POWER
AGENCY NUMBER 1

Accepted _____

Accepted _____

By _____
NORTH CAROLINA ELECTRIC
MEMBERSHIP CORPORATION

By _____
SALUDA RIVER ELECTRIC
COOPERATIVE, INC.

Accepted _____

By _____
PIEDMONT MUNICIPAL POWER AGENCY