

MATERIALS LICENSE

Amendment No. 09

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

1. Consumers Power Company
Midland Energy Center
2. P.O. Box 1593
Midland, MI 48640

In accordance with letter dated
January 10, 1985

3. License number 21-08606-09 is amended in
its entirety to read as follows:

4. Expiration date June 30, 1990

5. Docket or
Reference No. 030-15280

6. Byproduct, source, and/or
special nuclear material

A. Any byproduct material
with Atomic Nos.
1-83, inclusive

B. Any byproduct material
with Atomic Nos.
1-83, inclusive

C. Cesium-137

D. Cesium-137

E. Cesium-137

F. Cobalt-60

G. Cobalt-60

H. Americium-241

7. Chemical and/or physical
form

A. Sealed sources

B. Any

C. Sealed sources

D. Any

E. Sealed source
(J.L. Shepherd
Model 6810)

F. Any

G. Sealed sources

H. Sealed neutron sources

8. Maximum amount that licensee
may possess at any one time
under this license

A. 500 millicuries
total, no single
source to exceed
100 millicuries

B. 50 millicuries
total

C. 3 curies total
no single source to
exceed 1,200
millicuries

D. 50 millicuries

E. 1,000 curies

F. 50 millicuries total

G. 1 curie total
no single source
to exceed 500
millicuries

H. 2,500 curies total
no single source to
exceed 625 curies

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

21-08606-09

Docket or Reference number

030-15280

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6. Byproduct, source,
and/or special nuclear
material7. Chemical and/or
physical form8. Maximum amount that
licensee may possess
at any one time
under this license

I. Americium-241

I. Sealed sources

I. 8 curies total
no single source to
exceed 5 curies

J. Americium-241

J. Any

J. 5 millicuries

K. Curium-242
through 250

K. Sealed sources

K. No single source
to exceed 20 curiesL. Uranium-238
(Depleted in uranium-235)

L. Encapsulated

L. 999 kilograms

M. Antimony-124

M. Sealed sources

M. 2,500 curies total
No single source to
exceed 625 curies

9. Authorized Use

A. through K. and M. For storage, possession and use in calibration of licensee's
radiation detection devices.

L. For use as shielding material.

CONDITIONS

10. Licensed material shall be used only at Midland Energy Center, 3500 East Miller Road,
Midland, Michigan.11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal
Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and
Part 20, "Standards for Protection Against Radiation."12. Licensed material shall be used by, or under the supervision of, J.L. Fontaine,
T.P. Neal, M.A. Moore, D.R. Gnaedinger or L.J. Grusecki.13. A. (1) Each sealed source containing licensed material, other than Hydrogen 3,
with a half-life greater than thirty days and in any form other than gas
shall be tested for leakage and/or contamination at intervals not to exceed
six months. In the absence of a certificate from a transferor indicating
that a test has been made within six months prior to the transfer, a sealed
source received from another person shall not be put into use until tested.(2) Notwithstanding the periodic leak test required by this condition, any
licensed sealed source is exempt from such leak tests when the source
contains 100 microcuries or less of beta and/or gamma emitting material or
10 microcuries or less of alpha emitting material.

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- (3) 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 months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. 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 contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
15. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated January 10, 1985 and letter dated October 23, 1984. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

For the U.S. Nuclear Regulatory Commission

Original Signed
By Bruce S. Mallett
Materials Licensing Section, Region III

Date May 22, 1985

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