

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

29-20659-01

Docket or Reference number

030-20686

Amendment No. 04

Public Service Electric & Gas Co.
Hope Creek Generating Station
P.O. Box 570
80 Park Plaza
Newark, New Jersey 07101

In accordance with letter dated July 16, 1985, License Number 29-20659-01 is amended as follows:

Items 6., 7., 8., and 9. are amended to read:

- | | | |
|--|--|---|
| 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. Uranium 234/
Uranium 235 | A. Sealed sources | A. 2.3 grams total. Not to exceed 4.3 milligrams per detector |
| B. Uranium 235/
Uranium 238 | B. Sealed sources | B. 60 milligrams total. Not exceed 3 milligrams per detector |
| C. Uranium 233/
Uranium 235 | C. Sealed sources | C. 15 milligrams total. Not to exceed 1 milligram per detector |
| D. Uranium 234/
Uranium 238 | D. Sealed sources | D. 200 milligrams total. Not to exceed 50 milligrams per source |
| E. Antimony 124 | E. Sealed Neutron startup sources (G.E. Model No. 112C366G001) | E. No single source to exceed 20,000 curies, total 40,000 curies |
| F. Thorium 232 | F. Sealed sources | F. 50 grams total. Not to exceed 10 grams per source |
| G. Any byproduct material with Atomic Numbers 3-83 inclusive except: | G. Any | G. No single source to exceed 1 millicurie, total 500 millicuries |
| H. Cobalt 60 | H. Sealed sources | H. 1 millicurie total, no single source to exceed 100 microcuries |
| I. Cesium 137 | I. Sealed sources (New England Nuclear Model NER-570) | I. 2 curies total, no single source to exceed 500 millicuries |
| J. Plutonium-239 | J. Electroplated sources | J. No single source to exceed 1.7 microcuries; total not to exceed 3.0 microcuries or 1 microgram |

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(continued)

- | | | |
|---|---|---|
| 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 |
| K. Americium-241 | K. Sealed Neutron source (Monsanto model MRC-AmBe-5823) | K. One source not to exceed 6 curies |
| L. Americium-241 | L. Any form | L. No single source to exceed 1 microcuries; total not to exceed 10 microcuries |
| M. Uranium-238 (depleted) | M. Any form | M. No single source to exceed 1.5 kilograms; total not to exceed 2.5 kilograms |
| N. Cesium-137 | N. Sealed sources (J.L. Shepherd type A0096-5) | N. Single source not to exceed 400 curies |
| O. Cesium-137 | O. Sealed sources | O. No single source to exceed 3 curies, total not to exceed 5 curies |
| P. Promethium-147 | P. Any form | P. No single source to exceed 3 millicuries total not to exceed 10 millicuries |

9. Authorized use

- A. through D. For use as detectors in nuclear instrumentation and as detector check sources.
- E. For possession and storage only.
- F. through P. For calibration of instruments and as check sources.

AUG 20 1985

Date _____

For the U.S. Nuclear Regulatory Commission
Original Signed By:
Jenny M. Johansen

By _____
Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406