

MATERIALS LICENSE

Amendment 04

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.

"OFFICIAL RECORD COPY"

Licensee

1. Advanced Radiation Service, Inc.

2.

271 Plainfield Road
Edison, New Jersey 08820In accordance with application dated
March 31, 1983

3. License number 29-14171-01 is amended

in its entirety to read as follows:

4. Expiration date June 30, 1990

5. Docket or
Reference No. 030-080486. 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

A. Iridium 192

A. Technical Operations
Model A-424-1 sealed
sourcesA. No single source to
exceed 100 curies

B. Iridium 192

B. Technical Operations
Model A-424-9 sealed
sourcesB. No single source to
exceed 100 curies

C. Cobalt 60

C. Technical Operations
Model A-424-14 sealed
sourcesC. No single source to
exceed 100 curies

D. Cobalt 60

D. Technical Operations
Model 571 source rod

D. 15 millicuries

9. Authorized use

- A. For use in Technical Operations Model 533 exposure devices for industrial radiography and in Technical Operations Models 414 or 650 source changers for storage and replacement of sources.
- B. For use in Technical Operations Model 660 exposure devices for industrial radiography and in Technical Operations Models 414 or 650 source changers for storage and replacement of sources.
- C. For use in Technical Operations Model 680 exposure devices for industrial radiography and in Technical Operations Model 771 source changer for storage and replacement of sources.
- D. For storage only in Technical Operations Model 571 calibrator housing.

CONDITIONS

10. Licensed material may be stored at 271 Plainfield Road, Edison, New Jersey and used at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

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CONDITIONS

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," Part 20, "Standards for Protection Against Radiation" and Part 34, "Licenses for Radiography and Radiation Safety Requirements for Radiographic Operations."
12. Licensed material shall be used by, or under the supervision and in the physical presence of, Anton S. Kurtz, Gerald Muchanic, Sr., or individuals fulfilling the requirements of 10 CFR 34.31(a) and who have successfully completed the training program of the licensee as described in application dated March 31, 1983 and letters dated March 12, 1985 and April 16, 1985.
13. A. Pursuant to Section 34.25, 10 CFR 34, the licensee is authorized to perform tests for leakage or contamination of the sealed sources authorized by this license in accordance with procedures contained in application dated March 31, 1983.
B. Notwithstanding the periodic leak test required by Section 34.25(b), 10 CFR 34, such requirement does not apply to radiography 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.
C. Sealed sources authorized for a use other than radiography shall be tested as radiography sources in accordance with Section 34.25 of 10 CFR 34.
14. The licensee is authorized to receive, possess, and use sealed sources of Iridium 192 or Cobalt 60 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
A. Such possession does not exceed the quantity per source specified in Item 8 by more than 20% for Iridium 192 or 10% for Cobalt 60;
B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 8 of the license was ordered from the supplier or transferor of the byproduct material; and
C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in Section 34.21, 10 CFR 34.
15. Pursuant to Title 10, Chapter 1, Code of Federal Regulations, Part 40, "Domestic Licensing of Source Material," the licensee is authorized to possess, use, transfer, and import up to 999 kilograms of uranium contained as shielding material in the radiography exposure devices and source changers authorized by this license.
16. 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."

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CONDITIONS

17. 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 letter dated September 27, 1982; application dated March 31, 1983; and letters dated March 12, 1985 and April 16, 1985. 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:

James H. Yelton

Date

JUN 24 1985

By

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