

## 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); and to import such byproduct and source material. 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		In accordance with letter dated November 6, 1985	
1.	Department of the Navy USS VULCAN (AR-5)	3.	License number 31-17968-02 is amended in its entirety to read as follows:
2.	FPO New York, New York 09548	4.	Expiration date February 28, 1989
		5.	Docket or Reference No. 31-17968-01/030-20931
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/or physical form
A.	Iridium 192	A.	Sealed source assemblies (Automation Industries Model 200-520-008 or 200-520-010, Technical Operations Model 866)
		8.	Maximum amount that licensee may possess at any one time under this license
		A.	No single source to exceed 100 curies
9. Authorized use			
A. For use in Technical Operations (formerly Automation Industries) Model 520 exposure devices for industrial radiography and in Technical Operations (formerly Automation Industries) Model 500-SU source changers for storage and replacement of sources.			

## CONDITIONS

10. Licensed material may be used in the United States on the USS VULCAN and on ships and in areas where the USS VULCAN may be operating.
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."

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**MATERIALS LICENSE**  
SUPPLEMENTARY SHEET

License number

31-17968-02

Docket or Reference number

31-17968-01/030-20931

Amendment No. 01

**CONDITIONS**

12. 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 December 5, 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.
13. The licensee is authorized to receive, possess, and use sealed sources of Iridium 192 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;
  - 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.
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."

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CONDITIONS

15. Pursuant to Title 10, Chapter 1, Code of Federal Regulations, Part 40, "Licensing of Source Material," the licensee is authorized to possess, use, transfer, and import up to 450 kilograms of uranium contained as shielding material in the radiography exposure devices and source changers authorized by this license.
16. 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 December 5, 1983; and letters dated April 30, 1984 and November 6, 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

DEC 31 1985

DATE \_\_\_\_\_

Original Signed By  
J. Bruce Carrico

BY \_\_\_\_\_

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

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