

EXPORT LICENSE

NRC FORM 250
(8-84)

NRC LICENSE NO.

THIS LICENSE EXPIRES June 30, 2009

**XMAT0407
Amendment No. 01
Page 1 of 2**

**United States of America
Nuclear Regulatory Commission**

Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the Nuclear Regulatory Commission Issued pursuant thereto, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued

to the licensee authorizing the export of the materials and/or production or utilization facilities listed below, subject to the terms and conditions herein.

<p align="center">LICENSEE</p> <p>Sigma-Aldrich Corporation 6000 N. Teutonia Avenue Milwaukee, WI 53209</p> <p>Attn: J. Sanders</p>	<p align="center">ULTIMATE CONSIGNEE IN FOREIGN COUNTRY</p> <p>Ontario Power Generation 100 University Avenue Toronto, Ontario M5G 1X6 Canada</p> <p>(Heavy Water for purification/upgrade from 60% to 98% pure deuterium oxide and returned to the U.S.)</p>
<p align="center">INTERMEDIATE CONSIGNEE IN FOREIGN COUNTRY</p> <p align="center">NONE</p>	<p align="center">OTHER PARTIES TO EXPORT</p> <p align="center">NONE</p>
<p>APPLICANT'S REF. NO. <u>Ltr. dtd. 5/5/05</u></p>	<p>COUNTRY OF ULTIMATE DESTINATION <u>Canada</u></p>

QUANTITY	DESCRIPTION OF MATERIALS OR FACILITIES
<p>8500.0 Kilograms</p>	<p>Heavy Water In the form of deuterium oxide (Heavy Water) (40,000 kg) deuterium oxide shipped as ~67,000 kg spent deuterium oxide (D20 concentration ~60%) in water.</p> <p align="center">XMAT0407, Amendment No. 01 continued on Page 2</p>

Neither this license or any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974.

This license is subject to the right of recapture or control by Section 108 of the Atomic Energy Act of 1954, as amended, and to all of the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the Nuclear Regulatory Commission.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW
BY AUTHORIZED NRC REPRESENTATIVE

Margaret M. Doane
Margaret M. Doane, Deputy Director
Office of International Programs

DATE OF ISSUANCE June 17, 2005

