

National Aeronautics and
Space Administration
John H. Glenn Research Center
Lewis Field
Cleveland, OH 44135-3191



March 6, 2009

Reply to Attn of: QS

U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Subject: License # 34-00507-16, Docket # 030-05626

We are requesting that our specific materials license be amended to add the following Promethium-145 X-ray reference source, which had previously been used for the calibration of a solid state detector. Prior to the recent change to the definition of "byproduct material," this accelerator-produced material was held as a non-licensable source. Following the change, the source was simply overlooked and no request was made to add it to our license. The "Technical Data" sheet for this source is being provided as an enclosure to this letter

Isotope: Promethium-145
Form: Solid Sealed Source
Amount: One source not to exceed 1 microcurie
Source: New England Nuclear, X-2 X-ray Reference
Use: For storage only incident to disposal

Also, we would like to revise our training program for employees working with licensable radioactive materials to require refresher training biennially instead of annually. We believe that a biennial retraining requirement is commensurate with the radiation safety instructional needs of our "radiation worker" contingent on whose work tasks involve either research and development activities using these sources, or working around/handling such materials which are in storage only incident to disposal.

Should you have questions or require additional information, you may contact Mr. Chris J. Blasio, Radiation Safety Officer at (216) 433-6520.

A handwritten signature in black ink, appearing to read "Manuel B. Dominguez".

Manuel B. Dominguez, Chief
Safety, Health, and Environmental Division

RECEIVED MAR 12 2009

Enclosure



New England Nuclear
 575 Albany Street, Boston, Mass 02118
 Tel (617) 426-7311 Telex: 094-8682

TECHNICAL DATA

327746-5

CANADA
 NEN Canada Ltée.
 11475 Côte de Liesse
 Dorval, Québec, Canada
 Tél. (514) 636-4971

WEST COAST
 NEN WEST
 206 Prof. Building
 El Cerrito Plaza South
 El Cerrito, Calif. 94530
 Tel. (415) 525-8989

EUROPE
 NEN Chemicals GmbH
 Siemensstrasse 1
 6072 Dreieichenhain
 bei Frankfurt
 Germany
 Tel. Langen (06103) 8353

RADIATION SOURCE

Prepared for: *NASA-Lewis Research Center*
C-23987-H-C

Price:

Isotope: *Pm-145* Amount: *~1 µCi* Assay Date: *1971*

Source Type: **X-2 X-Ray Reference Source**

Isotope Specific Activity:

Source Dimensions: **0.75" diameter x 0.1 " thick**

Method of Preparation: **The radionuclide is deposited on a plastic disc, covered with 0.89 mg/cm² aluminized mylar and cemented into the source mount**

Serial Number:

Isotope Lot No.:

Radiation Levels

unshielded	0	mr/hr on contact
packed	0	mr/hr

Date:

National Aeronautics and
Space Administration

John H. Glenn Research Center

Mail Code 6-4
21000 Brookpark Road
Cleveland, OH 44135-3191

C. Blasio



Official Business
Penalty for Private Use, \$300



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REGION III
2443 WARRENVILLE ROAD SUITE 210
LISLE IL 60532 4352**

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