

CARPENTER
TECHNOLOGY CORPORATION

SPECIAL PRODUCTS DIVISION P.O. BOX 20536, SAN DIEGO, CALIFORNIA 92120 (714) 448-1000

Sales

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September 27, 1978

U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Assistant Director for Export/Import and International Safeguards

Subject: Export License Application for Boiling Water Reactor Zircaloy-4
Fuel Channels for Japan

Reference: CarTech SPD Jobs 13903 and 13904

Gentlemen:

Pursuant to 10CFR Part 110, Carpenter Technology Corporation, Special Products Division requests an export license for the purpose of supplying boiling water reactor Zircaloy-4 fuel channels to Japan. The following information is in accordance with the information which is required by Paragraph 110.31, General Requirements of 10CFR Part 110.

a. Name and U.S. address of applicant:

Carpenter Technology Corporation
Special Products Division
Post Office Box 20536
San Diego, California 92120

b. Name and address of supplier of equipment and material, if different from the applicant:

None

c. Name and address of ultimate consignee:

Hitachi, Limited
New Marunouchi Building
No. 5-1, 1-Chome, Marunouchi
Chiyoda-ku, Tokyo 100, Japan

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d. Name and address of intermediate consignee: 1978 OCT 23 AM 9 39

Same as ultimate consignee.

e. Date of proposed first shipment:

EXPORT/IMPORT
AND
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October 15, 1978.

f. Date of proposed completion of final shipment:

October 15, 1978

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U.S. Regulatory Commission, contd.

- g. Contractual delivery date, if established:

October 15, 1978

- h. Proposed expiration of export license:

December 31, 1978

- i. End use of material by all consignees:

Zircaloy-4 boiling water reactor fuel channels are being supplied as scientific investigation samples and as such, will be used for laboratory examination purposes only.

Paragraph 110.32, Additional Requirements:

- a. General description of equipment:

The samples are one (1) 80 mil wall thickness, Zircaloy-4 alloy, fuel channel, and one (1) 100 mil wall thickness, Zircaloy-4 alloy, fuel channel. These two fuel channels are 5.278" inside diameter by approximately 165" in length. The cross section of the tube is square with equal sides. The normal use for these fuel channels is to serve as a water flow chimney for boiling water reactor fuel.

- b. Design power level:

Not applicable.

- c. Name of installation:

Not applicable.

- d. Location of where equipment is to be used:

Hitachi, Limited-
Nuclear Power Plant Design Department
Hitachi Works of Hitachi, Limited
Hitachi City, Japan

- e. Date when equipment is needed abroad:

October 15, 1978.

- f. Total dollar value of all items to be exported under the requested license:

\$6200.00 U.S. Dollars.

- g. List of items to be exported:

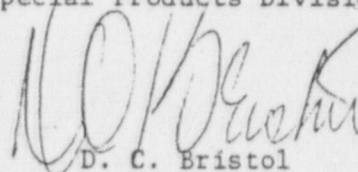
Boiling water reactor fuel channels would be classified under Zirconium Tubes, as listed in Appendix A of Nuclear Equipment, Item A(6).

U.S. Regulatory Commission, contd.

We thank you for your cooperation in this matter and look forward to receiving the appropriate export license at your earliest convenience. Please call upon us if you have any questions concerning this application.

Very truly yours,

CARPENTER TECHNOLOGY CORPORATION
Special Products Division



D. C. Bristol
General Sales Manager

DCB:jh



CARPENTER
TECHNOLOGY CORPORATION

SPECIAL PRODUCTS DIVISION P.O. BOX 20536, SAN DIEGO, CALIFORNIA 92120 (714) 448-1000

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October 18, 1978

U.S. Nuclear Regulatory Commission
Export/Import and International Safeguards
Office of International Program
Washington, D. C. 20555

Attention: Ms. Elaine Hemby, MNBB Mail Stop 8215

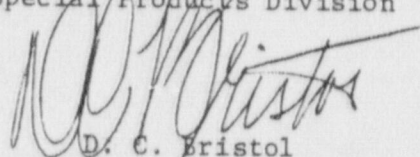
Subject: Export License Application for Boiling Water Reactor
Zircaloy-4 Fuel Channels for Japan

Reference: CarTech SPD Jobs 13903 and 13904

Gentlemen:

Pursuant to your telephone call yesterday, enclosed is a copy of our application for a license to export fuel channels to Japan dated September 27, 1978. Your help in obtaining the appropriate export license as soon as possible would be greatly appreciated. Thank you.

Very truly yours,
CARPENTER TECHNOLOGY CORPORATION
Special Products Division


D. C. Bristol
General Sales Manager

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