



CARPENTER
TECHNOLOGY CORPORATION

SPECIAL PRODUCTS DIVISION P.O. BOX 20555 SAN DIEGO, CALIFORNIA 92120 (714) 448-1000

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EXPORT/IMPORT
AND
INTERNAT'L SFGROS

May 8, 1979

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 Extension for Zircaloy-4 Fuel Channels for KKP

Reference: CarTech SPD Job 13812, U.S. N.R.C. Export License A312411

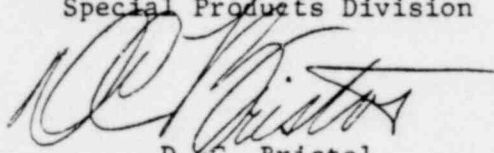
Dear Ms. Hemby:

↑ Expires
7-31-79

Carpenter Technology Corporation, Special Products Division requests an extension to our Export License No. A312411 for exporting Zircaloy-4 fuel channels to West Germany. The appropriate information as required for 10CFR110 is attached with the extended dates indicated by an asterisk. All other portions of the addendum to the application remain as originally given. This export license extension is required as we have experienced a delay in our production schedule.

We thank you for your help in processing this extension. If you should have any questions, please feel free to contact us.

Very truly yours,
CARPENTER TECHNOLOGY CORPORATION
Special Products Division


D. C. Bristol
General Sales Manager

Att:

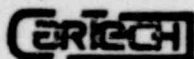
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DCB:jh

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changes in application made pursuant
to telecon w/ Mr. Bristol on 5/15/79.
Similar application for same reactor
rec'd same day as this appli. These
applications were combined into one
application whereby

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CARPENTER
TECHNOLOGY CORPORATION

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

DATE: May 8, 1979

ADDENDUM TO
EXPORT LICENSE APPLICATION
FOR BOILING WATER REACTOR ZIRCALOY-4 FUEL CHANNELS
CarTech SPD Job 13812

The following information is given in accordance with that 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:

Kernkraftwerk Philippsburg GmbH
Philippsburg, West Germany

d. Name and address of intermediate consignee:

Kraftwerk Union Aktiengesellschaft
Erlangen, West Germany

e. Date of proposed first shipment:

September, 1979 *

f. Date of proposed completion of final shipment:

~~September, 1979 *~~ **March 1982**

g. Contractual delivery date, if established:

N/A

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h. Proposed expiration of export license:

~~January 1, 1980 *~~ **July 1, 1982**

EXPORT LICENSE APPLICATION FOR BOILING WATER REACTOR ZIRCALOY-4 FUEL CHANNELS, continued.
CarTech SPD Job 13812

i. End use of material by all consignees:

Replacement core components for KKP Reactor.

Additional information as required by Paragraph 110.32, Additional Requirements of
10CFR Part 110.

a. General description of equipment:

615
~~185~~ each, 2.5 mm Zircaloy-4 alloy fuel channels. These fuel
channels are 5.278" inside diameter by approximately 167 inches
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:

864 megawatts electric

c. Name of installation:

Kernkraftwerk Philippsburg (KKP 1)

d. Location of where equipment is to be used:

Philippsburg, West Germany

e. Date when equipment is needed abroad:

Fourth quarter of 1979.

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

\$489,335.00
+ 1,879,100.00

Total \$ Value: \$ 2,368,435.

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).

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