



GA Technologies

XSNM01360
Amend 4

PPR

In Reply
Refer To: IEL-4024

GA Technologies Inc.
P.O. BOX 81608
SAN DIEGO, CALIFORNIA 92138
(619) 455-3000

November 10, 1982

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RECEIVED
U.S. NRC
EXPORT/IMPORT
AND
INTERNATIONAL SAFEGUARDS

Mr. James Zimmerman
Assistant Director
Export/Import and International Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Application for Amendment to Export License XSNM01360, West Germany (KFA).

Dear Mr. Zimmerman:

GA Technologies Inc. makes application, pursuant to 10 CFR 110, to amend subject license to allow the export of special nuclear material, source and byproduct material contained in a segmented and dissected irradiated HTGR fuel element. The fuel element initially contained 1.83 kg of thorium and 450 gm U-235. Following its irradiation, a fuel burnup calculation has been performed on this fuel element. The element's fissile and fertile components expected to be exported are now 10.8 kg thorium, 500 gm uranium, 21 gms of which is U-233, 399 gms U-235. 0.9 gms plutonium has been bred into the material. 0.6 gms of the plutonium is in the isotope Pu-239. The irradiated element contains the order of 10 K curies of activity.

We are making plans to ship the irradiated fuel element parts on or about July 1983. We request that you issue an amendment to XSNM01360 to increase its quantity by the amounts stated above.

We would appreciate receiving the amendment by the first of February 1983 so that the approvals to export the material are in hand before we begin the expensive and time consuming task of segmenting and dissecting the fuel element currently residing in GA's hot cell facility.

If you have questions, please contact me at 619-455-2823.

Very truly yours,

William R. Mowry
William R. Mowry
Licensing Administrator

10.8 Kg Th
.500 gm Th
10.3 Kg Th Incr.

500 gm U-235
500 gm U-235
0 Increase
399 gm U-235
50 gm U-235
349 gm U-235
21 gm U-233
0 gm U-233
21 gm U-233

WRM:hc

cc: Joe Marchal
Delegation of the European Communities
2100 M St., N.W., Suite 707
Washington, D.C. 20037

0.9 gm Pu requested
0.0 gm - Present
0.9 gm Pu Increase

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PDR XPORT
XSNM-1360 PDR