UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

CHAIRMAN

LOMM
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September 14, 1979

The Honorable Adlai E. Stevenson
Chairman, Subcommittee on International Finance
Committee on Banking, Housing and Urban Affairs
United States Senate
Washington, D. C. 20510

Dear Mr. Chairman:

Thank you for your letter of June 21, 1979. I trust the enclosed answers to the questions posed in your letter will provide useful insights into the steps the Commission has taken to make the nuclear export licensing process as responsive as possible to overall U.S. export policy goals. Your questions have served to highlight once again the difficult task of seeking a proper balance between facilitating U.S. nuclear exports and, simultaneously, minimizing the potential risks involved in such exports.

Please do not hesitate to contact me again if you have any further questions.

Sincerely,

Joseph M. Hendrie

Enclosure:
Answers to questions of
6/21/79

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Question

What steps has NRC taken to reduce nuclear export licensing delays?

Answer

Since enactment of the Nuclear Non-Proliferation Act (NNPA) in March 1978, NRC has taken several steps to expedite the export licensing process where this can be done without compromising the requirements for a thorough inter-agency and Commission review or incurring proliferation risks. Among these steps have been the following:

1. In May 1978, NRC promulgated revised export/import regulations (10 CFR Part 110) which incorporate the requirements of the NNPA. Part 110 provides for, among other things, (1) staff level approval of certain categories of export license applications without Commissioner review or referral to the Executive Branch; (2) eliminating time-consuming repetitive analyses of applications through approval of exports upon a finding of "no material changed circumstances" from a previously approved application for export to the same country; and (3) allowing applicants to file consolidated export license applications covering more than one shipment of similar material or equipment, thereby reducing the number of cases requiring processing. All of these provisions have been utilized extensively and have facilitated the export license review process.

2. NRC has been working with the Executive Branch to develop guidelines for allowing several reloads of fuel for power reactors to be licensed at one time, thereby reducing significantly the number of export license applications that need to be filed and processed. For example, in the case of an export to Mexico, the Commission approved the inclusion of five reloads for each of the two units involved under the one export license.

3. Increased staff has been allocated by the Commission to facilitate accomplishment of NRC's increased export licensing responsibilities under the NNPA and Congressional approval for further additions to cope with the increased workload has been sought, but recently the Commission request for additional NRC staff, including four positions for export licensing, was denied by the Congress in NRC's FY 80 budget review.

4. In November 1978, the Commission forwarded to the Executive Branch a proposed improved format for the Executive Branch's analyses of nuclear export license applications. Although expanding the information normally provided, adoption of this revised format could facilitate the expeditious processing of export license applications by agreement between NRC and the Executive Branch concerning those matters pertinent to export licensing which the Commission believes should be addressed in Executive Branch analyses. This should significantly reduce the need for NRC to go back to the Executive Branch on a case-by-case basis to request additional information. Although as of now the Executive Branch has not completely agreed to the Commission's revised proposed format, discussions with the Executive Branch aimed at a mutually satisfactory resolution of this matter are continuing.

5. In November 1978, the Commission also forwarded to the Executive Branch for review a proposed general license for nuclear component exports. If adopted, this proposal would eliminate essentially all specific license requirements for reactor component exports to commercial nuclear power plants in those countries sharing U.S. non-proliferation goals. Such a general license would significantly facilitate U.S. efforts to continue as a reliable nuclear supplier to such countries.

   Primarily because of internal difficulties in reaching agreement on the list of countries to which the general license would apply, the Executive Branch has not yet responded to NRC's proposal.

6. In December 1978, the Commission adopted internal review procedures for expediting staff and Commissioner review of exports licensed by NRC (in June 1979 similar procedures were adopted by the Commission for exports handled by other agencies in which NRC has a consultation role). Among other things, these procedures contain provisions (1) aimed at completing action, whenever possible, on export license applications submitted to NRC, within 60 days of receipt of applications or Executive Branch views; and (2) providing for prompt Commission action on export cases once a majority of Commissioners have voted (i.e., a Commission minority cannot postpone action on a case for an extended period).

7. In April 1979, the staff forwarded to the Commission for final approval proposed amendments to the Commission's export licensing regulations pertaining to minor quantities of nuclear materials. For example, adoption of these regulations would considerably simplify the requirements for exporting gram quantities of special nuclear material. If approved, the proposed regulations will enable the Commission's staff to devote significantly increased time and attention to major export licensing matters.

8. Finally, the Commission has implemented procedures to provide staff offices and Commissioners, as appropriate, copies of export license applications and Executive Branch comments promptly after receipt. This has facilitated the parallel review of export cases by NRC while awaiting completion of the Executive Branch's review and is also in accordance with the NNPA's intent that the export review procedures identify all relevant questions and issues concerning license applications at the beginning of the review process.

Question

What is the record over the last three years on processing time for export license applications?

Answer

The times required to process licenses issued during the years 1976, 1977, 1978 and during the first six months of 1979, are summarized in Section A of the attachment.

By way of explanation, major cases are defined as follows:

1. One effective kilogram or more of special nuclear material;

2. 10,000 kilograms or more of source material;

3. 1,000 kilograms or more of heavy water or nuclear grade graphite;

4. All nuclear facility export cases; or

5. Any other case determined by NRC to warrant special consideration.

Question

What licenses are currently pending for more than 90 days and why?

Answer

A summary of export license applications pending for more than 90 days as of June 30, 1979 is given in Section B of the attached tables. Of the total of 114 cases, 93 were pending with the Executive Branch and 21 were pending with the NRC.

Section C of the attached tables provides a listing of all export license applications pending as of June 30, 1979. The 114 cases over 90 days old are identified by checkmark.

A number of factors causing extended review times can be identified. The major factors are as follows:

1. The lack of an Agreement for Cooperation with the recipient country. This statutory requirement affects pending reactor export license applications for Morocco, Bangladesh, Malaysia and Israel.

2. Whether the recipient government has accepted full-scope safeguards over all its nuclear facilities, as will be required by Section 128 of the NNPA for all shipments to take place after March 10, 1980. This additional criterion affects pending applications for licenses to export to Spain and India.

3. Whether the recipient country has provided the U.S. Government with assurances that the export will be subject to the terms of the applicable Agreement for Cooperation with the U.S. Delays in the receipt of such statutorily-required assurances are affecting several pending exports.

4. The need to examine especially closely proposed exports of plutonium and high-enriched uranium because of their proliferation risks, resulting in extensive review times for all significant exports in these categories.

5. The need to resolve various questions that have been raised about particular exports, for example, questions about:

   (a) The proliferation intentions of certain countries;

   (b) The degree to which the various export licensing criteria in Section 127 of the Atomic Energy Act are met (including the adequacy of assurances provided by the recipient country); and

   (c) Siting problems related to proposed Philippine exports.

6. The fact that all significant export cases are reviewed by at least six separate U.S. Government agencies in itself leads to unavoidable delays. In particular, considerable time is often required to resolve the varied and complex issues involved and the differing interpretations of the involved agencies regarding the applicable export review criteria.

Question

Are NRC decisions being delayed in pending cases due to inaction of other Federal departments or agencies?

Answer

With minor exception, before NRC can act on export license applications, the NNPA requires that it be provided with favorable views of the Executive Branch. The Executive Branch agencies normally involved in this comprehensive, and often complex, review process include the Department of State as lead agency and the Departments of Energy, Defense and Commerce and the Arms Control and Disarmament Agency. As indicated in the attached table, 93 of the 114 cases pending for more than 90 days as of June 30 were under Executive Branch review.

The State Department periodically informs the Congress, as required by the NNPA, of the reasons for delay in any case that has been before the Executive Branch for over 60 days. The NRC has, in some cases, requested additional information from the Executive Branch in order to complete the NRC review of pending export license applications. The executive Branch normally provides a response to NRC's questions within a reasonable period after the inquiry is made. While no pending cases are directly affected by requests for a public hearing, at times this factor has significantly delayed action on pending applications.

(The average times required for the Executive Branch review of applications for licenses issued during 1976, 1977 and 1978 and the first half of 1979 are set forth in Section A of the attached tables.)

As noted above, there are various factors which can lead to Executive Branch delays in processing these cases. In general, these delays appear to have been chiefly due to the need to resolve a number of issues connected with pending export license applications following implementation of the numerous new requirements of the NNPA in March of 1978 and related U.S. Government export policy concerns, and not to a lack of cooperation by the agencies. Insufficient Executive Branch staff to deal with the export licensing function also appears to have been a factor in these delays.

Question

Is legislation needed to insure prompter action on license applications?

Answer

One of the principal objectives of the NNPA was to ensure prompt action on license applications. While the record of the U.S. agencies involved in the export process since enactment of the Act has not been entirely blameless in terms of meeting this objective, a large part of the problem relates to resolving the implementation difficulties referred to in the foregoing answers. The Commission concludes that additional legislation is not required at this juncture. The Commission will keep the situation under review, bearing in mind the concerns outlined in your letter, and will not hesitate to suggest remedial legislation, if necessary, should the implementation difficulties persist and their early resolution seem unlikely.

PROCESSING TIMES FOR NUCLEAR EXPORT LICENSE APPLICATIONS

ATTACHMENT

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SECTION A

AVERAGE TIMES REQUIRED TO REVIEW EXPORT LICENSE APPLICATIONS

AVERAGE TIME TO REVIEW EXPORT LICENSES
ISSUED DURING FIRST SIX MONTHS OF 1979
(IN MONTHS)

TYPE OF LICENSE	EXECUTIVE BR. REVIEW TIME	NRC REVIEW TIME	TOTAL REVIEW TIME
SPECIAL NUCLEAR MATERIAL			
MAJOR			
High Enriched	13.3	3.4	16.7
Low Enriched	6.0	1.8	7.8
MINOR	4.0	.9	4.9
SOURCE MATERIAL			
MAJOR	3.2	2.0	5.2
MINOR	3.9	.3	4.2
REACTORS			
POWER	27.2	14.3	41.5
RESEARCH[1]	--	--	--
BYPRODUCT MATERIAL	2.6	.5	3.1
COMPONENTS	N.A.	2.0	2.0

[1]No Research Reactor export licenses were issued during the first six months of 1979.

AVERAGE TIME TO REVIEW EXPORT LICENSES ISSUED DURING 1978
(IN MONTHS)

TYPE OF LICENSE	EXECUTIVE BR. REVIEW TIME	NRC REVIEW TIME	TOTAL REVIEW TIME
SPECIAL NUCLEAR MATERIAL			
MAJOR			
High Enriched	11.9	3.9	15.8
Low Enriched	7.2	1.3	8.5
MINOR	4.3	.8	5.1
SOURCE MATERIAL			
MAJOR	2.8	2.5	5.3
MINOR	3.1	.7	3.8
REACTORS			
POWER	6.6	4.4	11.0
RESEARCH[1]	--	--	--
BYPRODUCT MATERIAL	2.4	.8	3.2
COMPONENTS[2]	N.A.	1.1	1.1

[1]No Research Reactor Export Licenses were issued during 1978.

[2]Licensing Responsibility for Components was transferred from Department of Commerce to NRC by the Nuclear Non-Proliferation Act of 1978.

AVERAGE TIME TO REVIEW EXPORT LICENSES ISSUED DURING 1977
(IN MONTHS)

TYPE OF LICENSE	EXECUTIVE BR. REVIEW TIME	NRC REVIEW TIME	TOTAL REVIEW TIME
SPECIAL NUCLEAR MATERIAL			
MAJOR			
High Enriched	6.6	3.5	10.1
Low Enriched	4.8	2.5	7.3
MINOR	3.0	.7	3.7
SOURCE MATERIAL			
MAJOR	1.6	2.5	4.1
MINOR	1.7	.9	2.6
REACTORS			
POWER	6.6	6.3	12.9
RESEARCH	12.4	5.4	17.8
BYPRODUCT MATERIAL	1.5	.6	2.1

AVERAGE TIME TO REVIEW EXPORT LICENSES ISSUED DURING 1976
(IN MONTHS)

TYPE OF LICENSE	EXECUTIVE BR. REVIEW TIME	NRC REVIEW TIME	TOTAL REVIEW TIME
SPECIAL NUCLEAR MATERIAL			
MAJOR			
High Enriched	5.0	3.2	8.2
Low Enriched	3.9	1.7	5.6
MINOR	3.2	.7	3.9
SOURCE MATERIAL			
MAJOR	4.4	2.1	6.5
MINOR	2.4	.9	3.3
REACTORS			
POWER	16.5	12.6	29.1
RESEARCH	7.8	2.8	10.6
BYPRODUCT MATERIAL	2.6	.8	3.4

SECTION B

SUMMARY OF EXPORT APPLICATIONS PENDING MORE THAN 90 DAYS ON JUNE 30, 1979

SUMMARY OF APPLICATIONS PENDING MORE THAN
90 DAYS ON JUNE 30, 1979

REASON	SNM MAJOR	SNM MINOR	SOURCE MAJOR	SOURCE MINOR	REACTOR	SPECIAL REACTOR MATERIALS	BYPRODUCT	COMPONENT	TOTAL
Under Executive Branch consideration	40	19	2	4	10	4	5	9	93
Pending Commissioner approval	6	-	-	-	-	1	-	-	7
Case returned from Executive Branch, under staff review	10	1	1	-	-	-	-	-	12
Need additional info. from applicant	-	1	-	-	-	-	-	-	1
Awaiting generic assurances	-	-	-	-	-	-	-	1	1
TOTAL	56	21	3	4	10	5	5	10	114

SECTION C

LIST OF ALL EXPORT LICENSE APPLICATIONS PENDING ON JUNE 30, 1979

LIST OF EXPORT LICENSE APPLICATIONS PENDING

June 30, 1979

(Those applications pending for more than 90 days are checked at the right hand column.)

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< SPECIAL NUCLEAR MATERIAL (MAJOR CASES) >>>

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
GENERAL ELECT	10/18/78 10/23/78 XSNM00203 (AMEND. 3)	TO EXTEND THE EXPIRATION DATE FROM 12/01/78 TO 12/01/81 & DECREASE QUANTITY AUTHORIZED FOR EXPORT FROM 3 KGS PLUTONIUM TO 2 KGS				NORWAY	(C) 11/24/78 01/25/79
WESTINGHOUSE	10/19/78 10/26/78 XSNM00510 (AMEND. 3)	TO EXTEND THE EXPIRATION DATE FROM 12/01/78 TO 12/31/80				JAPAN	(G) 03/15/79
U.S.NUCLEAR	------- 04/04/75 XSNM00690 (AMEND. 2)	ADD'L 25.7135	ADD'L 23.8594	93.3	FUEL,SAFARI-1	REP. OF SOUTH AFRICA	(C) 05/14/75
EXXON NUCLEAR	12/28/76 01/04/77 XSNM00722 (AMEND. 2)	EXTEND THE EXPIRATION DATE TO 3-1-83				W.GERMANY	(G) 02/08/78
WESTINGHOUSE ELECTRIC	11/02/77 11/08/77 XSNM00844 (AMEND. 3)	ADD'L 64,610	ADD'L 2,068	3.20	TWO RELOADS FOR ALMAREZ	SPAIN	(G) 08/01/78
WESTINGHOUSE	11/02/77 11/08/77 XSNM00861(02)	ADD'L 61,826	ADD'L 1,948	3.20	FUEL FOR LEMONIZ UNITS 1 AND 2	SPAIN	(C) 01/10/79
WESTINGHOUSE	08/31/78 09/06/78 XSNM01045 (AMEND. 1)	ADD'L 17,600	ADD'L 635	3.6	RELOAD FOR JOSE CABRERA	SPAIN	(C) 09/18/78
WESTINGHOUSE	01/06/77 01/11/77 XSNM01067	82,926	2,874	3.49	FUEL, KRSKO	YUGOSLAVIA	(C) 02/03/77
GENERAL ATOMIC	02/11/77 02/16/77 XSNM01088	26.2	24.4	93.15	FUEL, TEHRAN TRIGA REACTOR	IRAN	(C) 03/16/77 08/08/78
WESTINGHOUSE	07/15/77 07/19/77 XSNM01169	88,636	2,452	3.25	INITIAL CORE, SAYAGO	SPAIN	(C) 07/27/77

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NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
WESTINGHOUSE	08/09/77 08/12/77 XSNM01185	73,173	1,917	3.15	FUEL, VANDELLOS II	SPAIN	(C) 08/23/77 ✓
GENERAL ELECT.	09/22/77 09/27/77 XSNM01204	55	51.2	93.3	FABRICATION OF FUEL FOR GETR REACTOR IN U.S.	W.GERMANY	(C) 10/03/77 ✓
TRANSNUCLEAR	12/01/77 12/01/77 XSNM01236	5.720	5.337	93.3	FUEL FOR REACTOR FMRB	NETHERLANDS	(C) 12/20/77 ✓
GENERAL ATOMIC	01/13/78 01/17/78 XSNM01259	10.404	7.272	70	FUEL, TRIGA III	MEXICO	(C) 01/30/78 ✓
NISSHO-IWAI	02/08/78 02/10/78 XSNM01271	42	39.186	93.3	FUEL, KYOTO UNIVERSITY, HFR	JAPAN	(C) 02/23/78 ✓
TRANSNUCLEAR	02/17/78 02/21/78 XSNM01279	31.84	6.113	19.2	FUEL, REACTOR AT INST. OF NUCLEAR ENERGY RESEARCH	TAIWAN	(G) 11/15/78 ✓
U.S. DOE	03/28/78 03/28/78 XSNM01293	35 37 7.5 5.0	3.5 PU NATURAL URANIUM DEPLETED URANIUM	10	USDOE/UKAEA JOINT SAFETY TEST PROGRAM	UNITED KINGDOM	(C) 04/13/78 03/03/79 ✓
TRANSNUCLEAR	03/27/78 03/28/78 XSNM01294	23.058	21.513	93.3	FUEL, AVR	W.GERMANY	(C) 04/13/78 ✓
ENEL	05/19/78 05/19/78 XSNM01318	8.1	PLUTONIUM		FUEL, CREYS-MALVILLE (SUPER PHENIX) FAST REACTOR	FRANCE	(C) 05/26/78 ✓
TRANSNUCLEAR	06/22/78 06/23/78 XSNM01333	20,050	18.707	93.3	FUEL, HFR REACTOR	NETHERLANDS	(C) 06/29/78 ✓

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	 ISOTOPE	 PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS	
TRANSNUCLEAR	06/29/78 06/30/78 XSNM01340	39.077	36.459	93.3	FUEL FOR JAPAN MATERIALS TEST REACTOR (JMTR)	JAPAN	(C) 07/07/78	✓
WESTINGHOUSE	07/18/78 07/24/78 XSNM01349	25,000	812.5	3.25	RELOAD, BUGEY 2	FRANCE	(C) 08/03/78	✓
TRANSNUCLEAR	07/26/78 07/26/78 XSNM01350	1.939 PLUTONIUM			USED IN SCOPE OF FAST BREEDER PROGRAM OF COMMON EUROPEAN PROGRAM	W.GERMANY	(C) 11/24/78 08/03/78	✓
TRANSNUCLEAR	07/28/78 07/28/78 XSNM01355	101	94	93.3	FOR NRX, NRU & SLOWPOKE REACTORS AND FOR WHRE THORIA FUEL DEVELOPMENT	CANADA	(C) 08/03/78	✓
TRANSNUCLEAR	08/08/78 08/08/78 XSNM01362	72.6	67.736	93.3	FUEL FOR THE HIGH FLUX REACTOR IN GRENOBLE	FRANCE	(C) 08/10/78	✓
EDLOW INTERN'L	09/20/78 09/25/78 XSNM01379	19,858.8	487.3	2.71	RELOAD FOR TARAPUR	INDIA	(G) 04/24/79	✓
TRANSNUCLEAR	10/13/78 10/16/78 XSNM01389	802.0	484.408	60.4	RELOAD FOR KNK-II	W.GERMANY	(C) 10/31/78	✓
TRANSNUCLEAR	10/13/78 10/16/78 XSNM01390	15.038 50.125	14.030 35.288	93.3 70.4	SAFETY RELATED IRRADIATION EXPERIMENTS IN BR-2, HFR AND KNK-II	BELGIUM NETHERLANDS W.GERMANY	(C) 12/27/78 11/27/78	✓
TRANSNUCLEAR	10/13/78 10/16/78 XSNM01391	113.182	105.599	93.3	FUEL FOR BR-2	BELGIUM	(C) 11/13/78	✓
MITSUBISHI	10/30/78 11/07/78 XSNM01404	15,247	496	3.25	RELOAD FOR OHI UNIT I	JAPAN	(C) 11/20/78 12/15/78	✓

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NAME OF APPLICANT	DATE OF APPL / DATE RECEIVED / LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
MITSUBISHI	10/31/78 11/07/78 XSNM01405	11,983	342	2.85	RELOAD FOR MIHAMA 3	JAPAN	(F) 06/01/79
NISSHO-IWAI	11/03/78 11/08/78 XSNM01408	47.162	44.003	93.30	FUEL FOR JMTR, JRR-2, AND JRR-4	JAPAN	(C) 11/22/78
TRANSNUCLEAR	11/13/78 11/14/78 XSNM01412	19.398	18.098	93.3	FUEL FOR HFR REACTOR	NETHERLANDS	(C) 11/24/78
DELEGATION OF THE COMM. OF THE EUROPEAN COMM.	11/24/78 11/29/78 XSNM01425	35.070	32.720	93.3	FUEL FOR FRG-1, AND FRG-2 REACTORS	W.GERMANY	(C) 12/06/78
MITSUI & CO.	11/28/78 12/05/79 XSNM01426	157,382	3,511	2.55	INITIAL CORE FOR FUKUSHIMA II, UNIT 1	JAPAN	(F) 06/18/79
TRANSNUCLEAR	12/07/78 12/08/78 XSNM01428	3.810	3.55	93.3	FUEL FOR ASTRA REACTOR, SEIBERSDORF	AUSTRIA	(C) 12/12/78
TRANSNUCLEAR	12/07/78 12/08/78 XSNM01429	21.554	20.110	93.3	FUEL FOR FRJ-2 REACTOR	W.GERMANY	(C) 12/15/78
WESTINGHOUSE	11/17/78 12/12/78 XSNM01431	325,822	8,845	3.3	FUEL FOR MAANSHAN UNITS I AND II	TAIWAN	(C) 12/20/78
MITSUI & CO.	12/08/78 12/13/78 XSNM01432	26,902	756	3.95	RELOAD 2 FOR HAMAOKA UNIT II	JAPAN	(F) 06/15/79

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS	
NISSHO-IWAI	12/19/78 12/22/78 XSNM01435	12	5.448	45.40	DEMONSTRATION EXPERIMENTS OF MEDIUM ENRICHED URANIUM AT KUCA	JAPAN	(C) 05/10/79	✓
GENERAL ELECT	12/22/78 12/27/78 XSNM01436	5,875	161	3.1	RELOAD FOR TSURUGA	JAPAN	(F) 06/05/79	✓
NISSHO-IWAI	12/29/78 01/08/79 XSNM01439	15,075	229.14	1.52	FUEL FOR ADVANCED THERMAL REACTOR "FUGEN"	JAPAN	(C) 04/30/79	✓
GENERAL ELECT.	01/10/79 01/15/79 XSNM01441	11,965	331	3.1	RELOAD FOR FUKUSHIMA 2	JAPAN	(F) 05/31/79	✓
TRANSNUCLEAP	01/24/79 01/25/79 XSNM01444	14.0	13.062	93.3	FUEL FOR FRM AT GARCHING	W.GERMANY	(C) 02/05/79 02/26/79	✓
WESTINGHOUSE	02/08/79 02/12/79 XSNM01458	2,119,531	68,609	3.3	FUEL FOR KNU 5 AND 6	REP. OF KOREA	(D) 06/22/79	✓
TRANSNUCLEAR	02/14/79 02/15/79 XSNM01459	6.817	6.360	93.3	FUEL FOR BER-II	W.GERMANY	(C) 02/23/79	✓
EDLOW INTERNATIONAL	02/16/79 02/22/79 XSNM01462	17,115	454	2.65	RELOAD FUEL FOR MIHAMA UNIT 2	JAPAN	(C) 02/27/79	✓
EDLOW INTERNATIONAL	02/16/79 02/22/79 XSNM01463	13,125	593	4.52	RELOAD FUEL FOR TRINO REACTOR	ITALY	(F) 06/05/79	✓
WESTINGHOUSE	02/27/79 03/02/79 XSNM01471	121,000	4,300	3.6	INITIAL CORE AND 3 RELOADS TO PHILIPPINE NUCLEAR POWER PLANT, UNIT NO. 1	PHILIPPINES	(C) 03/06/79	✓

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	 ISOTOPE	 PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS	
WESTINGHOUSE	03/01/79 03/06/79 XSNM01472	727,175	25,005	3.5	INITIAL CORE PLUS 40 RELOADS FOR KORI II	S. KOREA	(D) 06/11/79	✓
MARUBENI	03/02/79 03/06/79 XSNM01473	3,799	102	3.9	RELOAD FUEL FOR FUKUSHIMA 1, UNIT NO. 4	JAPAN	(D) 06/25/79	✓
EMBASSY OF SPAIN	02/28/79 03/13/79 XSNM01477	51	10	19.9	FUEL FOR JEN-1	SPAIN	(C) 03/20/79 04/24/79	✓
TRANSNUCLEAR	03/19/79 03/20/79 XSNM01481	11,585.0	411.265	3.55	RELOAD FUEL FOR BEZNAU II	SWITZERLAND	(D1) 06/22/79	✓
TRANSNUCLEAR	03/21/79 03/22/79 XSNM01482	2.206	2.058	93.3	PHYSICAL REIMBURSEMENT OF URANIUM LOSSES DURING MFG	W.GERMANY	(C) 03/26/79	✓
TRANSNUCLEAR	03/21/79 03/22/79 XSNM01483	15.038 30.075	6.827 6.105	45.4 20.3	FUEL FOR VARIOUS MTR REACTORS	VARIOUS COUNTRIES	(C) 03/26/79 06/28/79	✓
MARUBENI	03/20/79 03/22/79 XSNM01484	25,723	701	3.9	RELOAD FUEL FOR FUKUSHIMA 1, UNIT 4	JAPAN	(D) 06/25/79	✓
GENERAL ELECT.	04/03/79 04/03/79 XSNM01489	29,526	796	3.65	RELOAD FUEL FOR TOKAI 2	JAPAN	(D) 06/25/79	
MARUBENI AMERICA	04/04/79 04/04/79 XSNM01490	30,382	795	2.97	RELOAD FUEL FOR SHIMANE UNIT 1	JAPAN	(C) 04/09/79	
TRANSNUCLEAR	04/04/79 04/04/79 XSNM01491	10,794	367	3.4	RELOAD FUEL FOR DOEL I	BELGIUM	(C) 04/09/79	

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
TRANSNUCLEAR	04/10/79 04/10/79 XSNM01494	35.088	32.737	93.3	FUEL FOR THE R-2 REACTOR	SWEDEN	(C) 04/12/79
TRANSNUCLEAR	04/.1/79 04/11/79 XSNM01495	20.050	18.707	93.3	FUEL FOR PETTEN REACTOR	NETHERLANDS	(C) 04/13/79
EDLOW INTERNAT'L	04/10/79 04/12/79 XSNM01496	12.03	10.875	90.4	FUEL FOR RA-3 REACTOR	ARGENTINA	(C) 04/13/79
GENERAL ELECTRIC	04/13/79 04/18/79 XSNM01498	18,452	510	3.65	RELOAD FUEL FOR FUKUSHIMA 1, UNIT 6	JAPAN	(C) 04/23/79
TRANSNUCLEAR	04/20/79 04/23/79 XSNM01500	15.038	14.030	93.3	FUEL FOR DR-3 REACTOR	DENMARK	(C) 04/26/79
TRANSNUCLEAR	05/03/79 05/04/79 XSNM01506	22,090	740.046	3.35	RELOAD FUEL FOR GOSGEN-DANIKEN	SWITZERLAND	(C) 05/10/79
MITSUI & CO.	05/01/79 05/07/79 XSNM01509	3,808	102	3.95	RELOAD FUEL FOR FUKUSHIMA I, UNIT 3	JAPAN	(C) 05/10/79
MARUBENI	05/07/79 05/09/79 XSNM01510	620	75.516	12.18	FOR USE IN "JOOYOO" EXPERIMENTAL FAST BREEDER REACTOR	JAPAN	(C) 05/16/79
MITSUI & CO.	05/01/79 05/07/79 XSNM01517	30,451	842	3.95	RELOAD FUEL FOR FUKUSHIMA I, UNIT 3	JAPAN	(C) 05/24/79

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	 ISOTOPE	 PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
MITSUBISHI	05/23/79 05/29/79 XSNM01518	40,023	1,302	3.25	RELOAD FUEL FOR OHI 2, REGIONS 5,6	JAPAN	(C) 06/01/79
TRANSNUCLEAR	05/30/79 05/31/79 XSNM01519	17,589	589.234	3.35	FUEL FOR BORSSELE	NETHERLANDS	(C) 06/05/79
TRANSUCLEAR	06/05/79 06/06/79 XSNM01521	33.0	30.8	93.3	FUEL FOR HFR	FRANCE	(C) 06/13/79
WESTINGHOUSE	06/21/79 06/25/79 XSNM01529	122,220	4,306	3.55	FUEL ASSEMBLIES FOR BEZNAU 1 & 2	SWITZERLAND	(C) 06/29/79
MITSUI & CO.	06/21/79 06/25/79 XSNM01531	33,337	915	3.95	RELOAD FUEL FOR FUKUSHIMA I, UNIT 5	JAPAN	(B) 06/25/79
EDLOW INTER'L	06/26/79 06/27/79 XSNM01532	44,870	1,481	3.55	RELOAD FUEL FOR OSKARSHAMN UNIT II	SWEDEN	(B) 06/27/79

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< SOURCE MATERIAL (MAJOR CASES) >>

NAME OF APPLICANT	DATE OF APPL / DATE RECEIVED / LICENSE NUMBER	ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
EDLOW INTERN'L	07/26/78 08/07/78 XU08427	68,500 NATURAL URANIUM			ENRICH UF6 AND RETURN TO US FOR REEXPORT TO THE KERNKRAFTWERK KAISERAUGST REACTOR IN SWITZERLAND	FRANCE	(C) 08/10/78
NL INDUSTRIES	11/27/78 12/01/78 XU08441	50,000 DEPLETED URANIUM			USED AS COUNTER-WEIGHT IN AIRCRAFT	CONDITION 2 COUNTRIES	(C) 12/21/78
EDLOW INTERN'L	02/21/79 02/26/79 XU08451	129,243 NATURAL URANIUM			FOR STORAGE AFTER CONVERSION IN U.K. OR FRANCE, AND R/T TO U.S. FOR ENRICH-MENT FOR STADE REACTOR	W.GERMANY	(D) 05/30/79
EDLOW INTERNAT'L	04/16/79 04/19/79 XU08459	48,000 NATURAL URANIUM			URANIUM ORE CON-CENTRATE FOR REPLACEMENT OF EXPORTED ORES	BRAZIL	(C) 04/23/79
TRANSNUCLEAR	05/03/79 05/04/79 XU08461	125,000 DEPLETED URANIUM			FOR BALLAST PURPOSES AND METALLURGICAL ALLOY TESTS	FRANCE	(G) 06/27/79

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NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT ISOTOPE PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
<<<<<<<<<<<<<<<<<<<< REACTORS (MAJOR CASES) >>>>>>>>>>>>>>>>>>>>					
ATOMICS INTR'L	04/18/75 04/23/75 XR106	A 200 WATT RESEARCH REACTOR	RESEARCH	ISRAEL	(G) 11/09/76
WESTINGHOUSE	11/18/76 11/23/76 XR120	A 1876 MEGAWATT THERMAL REACTOR PHILIPPINE NUCLEAR PROJECT	POWER	PHILIPPINES	(G) 01/25/78
WESTINGHOUSE	12/03/76 12/06/76 XR121	TWO 2785 MEGAWATT THERMAL REACTORS PRESSURIZED WATER REACTORS ESCATRON POWER STATION I & II	POWER	SPAIN	(C) 12/30/76
WESTINGHOUSE	12/10/76 12/13/76 XR123	A 3000 MEGAWATT THERMAL REACTOR IBERDUERO NO. 4	POWER	SPAIN	(C) 01/07/77
GENERAL ATOMIC	01/19/77 01/25/77 XR125	A ONE MWT TRIGA MARK II	RESEARCH	MALAYSIA	(C) 02/16/77
GENERAL ATOMIC	05/24/77 05/31/77 XR126	A TRIGA MARK II	RESEARCH	BANGLADESH	(C) 06/02/77
WESTINGHOUSE	08/24/77 08/30/77 XR129	A 3,002 MEGAWATT THERMAL PRESSURIZED WATER REACTOR FECSA III NUCLEAR POWER STATION	POWER	SPAIN	(C) 09/08/77
GENERAL ELECT.	01/09/78 01/12/78 XR130	A 2,894 MEGAWATT THERMAL BOILING WATER REACTOR FECSA F83	POWER	SPAIN	(C) 01/17/78
GENERAL ATOMIC	09/20/78 09/26/78 XR132	TRIGA MARK I	RESEARCH	MOROCCO	(C) 11/17/78
WESTINGHOUSE ELECTRIC CORP.	01/26/79 01/29/79 XR133	KNK 7 AND KNK 8 POWER REACTORS	POWER	REP. OF KOREA	(C) 02/16/79

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NAME OF APPLICANT	DATE OF APPLICATION DATE RECEIVED LICENSE NUMBER	DESCRIPTION	COUNTRY OF DESTINATION	STATUS
<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<	SPECIAL REACTOR MATERIALS (MAJOR CASES)	>>		
TECH AID, INC.	08/01/78 08/04/78 XMAT0003	19,000 LBS. OF HEAVY WATER FOR INSTITUTE OF NUCLEAR RESEARCH	TAIWAN	(C) 08/10/78
SCIENCE GENERAL CORPORATION	10/09/78 10/13/78 XMAT0013	8514 KGS DEUTERIUM TO AID IN VERIFYING PROPER OPERATIONS OF THE COMPUTER	TAIWAN	(C) 10/20/78
NISSHO-IWAI AMERICAN	03/08/79 03/15/79 XMAT0030	22,046 LBS HEAVY WATER USED AS MODERATOR IN FUGEN HEAVY WATER REACTOR	JAPAN	(C) 03/19/79
WESTINGHOUSE ELECTRIC	08/03/78 08/04/78 XCOM0013	MISC COMPONENTS FOR PHILIPPINE NUCLEAR POWER PLANT, UNIT I VALUE $5,200,000	PHILIPPINES	(F) 02/08/79
CARPENTER TECH CORP.	08/18/78 08/28/78 XCOM0035	ZIRCALOY TUBES FOR ATUCHA HEAVY WATER REACTOR VALUE $2,000,000	ARGENTINA	(C) 08/30/78
GENERAL ELECTRIC	04/29/79 05/03/79 XCOM0240	MISC. PARTS AND COMPONENTS FOR TARAPUR UNITS 1 AND 2 VALUE $180,000.	INDIA	(D) 06/12/79
GENERAL ELECTRIC	05/07/79 05/10/79 XCOM0250	SIX TRAVERSING INCORE PROBE DETECTOR ASSEMBLIES FOR TARAPUR VALUE $112,000.	INDIA	(C) 05/15/79

NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	 ISOTOPE	 PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
SPECIAL NUCLEAR MATERIAL (MINOR CASES)							
REUTER STOKES	08/02/76 08/05/76 XSNM00989	1,385.4 MGS	1,278.5 MGS	93	RADIATION DETECTOR	ROMANIA	(C) 08/16/76 ✓
GENERAL ATOMIC	04/25/77 04/28/77 XSNM01123	5.7 GMS 19.1	5.1 GMS 3.79	93 19.9	FISSION CHAMBER FUEL FOR TRIGA MARK II	MALAYSIA	(C) 05/03/77 ✓
GENERAL ATOMIC	11/11/77 11/18/77 XSNM01229	3.630	.715	19.9	FUEL, TSING-HUA RESEARCH REACTOR	TAIWAN	(G) 08/16/78 ✓
GENERAL ATOMIC	11/16/77 11/21/77 XSNM01230	1.372	.959	70	FUEL, TRIGA MARK II	YUGOSLAVIA	(C) 11/30/77 ✓
WESTINGHOUSE	03/10/78 03/15/78 XSNM01287	43 MGS	40 MGS	93.15	DETECTORS FOR KRSKO	YUGOSLAVIA	(C) 03/20/78 ✓
REUTER-STOKES	03/14/78 03/16/78 XSNM01288	143.2 MGS	133.1 MGS	93	NEUTRON FLUX MEASUREMENT IN PARR EXPERIMENTS	PAKISTAN	(C) 03/20/78 ✓
EBERLINE	02/28/78 03/21/78 XSNM01290	81.6 UGM PLUTONIUM-239			CALIBRATION OF RADIATION DETECTION INSTRUMENTS	TAIWAN	(C) 03/27/78 ✓
MITSUBISHI INTERNATIONAL	03/07/79 03/12/79 XSNM01322 (AMEND. 01)	INCLUDE 2 INTERMEDIATE CONSIGNEES IN JAPAN				JAPAN	(C) 03/14/79 ✓

NAME OF APPLICANT	DATE OF APPL / DATE RECEIVED / LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
EBERLINE INST.	08/11/78 08/17/78 XSNM01366	0.3 MGS PLUTONIUM-239 1.5 MGS NEPTUNIUM-237			CALIBRATION OF RADIATION DETECTION INSTRUMENTS	IRAN	(C) 08/23/78
EMBASSY OF THE REPUBLIC OF KOREA	04/28/78 09/19/78 XSNM01375	26 GMS NATURAL URANIUM 2 GMS DEPLETED URANIUM 5 GMS	.2 GMS	1 TO 10	U METAL - FOR THE VOLUMETRIC DETERMINATION OF URANIUM U308 - FOR CALIBRATION	KOREA	(C) 09/29/78
MONSANTO RES.	10/12/78 10/13/78 XSNM01388	8.5 PU-238(FOR 5 YEARS)			NEUTRON ACTIVATION ANALYSIS	17 VARIOUS COUNTRIES	(C) 10/31/78
EBERLINE INSTRUMENT CORP.	10/18/78 10/25/78 XSNM01399	1.60 UGM PLUTONIUM-239			FOR ALPHA CONTAMINATION SURVEY	TAIWAN	(C) 11/03/78
SPEX IND.	10/02/78 10/26/78 XSNM01400	31 GMS	7.544 GMS	DEPLETED THRU 97%	AS STANDARD SAMPLES FOR MASS ANALYSIS BY MASS SPECTROGRAPH	JAPAN	(C) 12/05/78
GENERAL ATOMIC	11/09/78 11/09/78 XSNM01410	579 GMS	405 GMS	70	FUEL ELEMENTS FOR TRIGA REACTOR	MEXICO	(C) 11/15/78
GENERAL ATOMIC	01/19/79 01/24/79 XSNM01442	.006 12.900	.005 2.570	93.500 19.900	FUEL FOR TRIGA I RESEARCH REACTOR	MOROCCO	(C) 02/05/79
REUTER STOKES	02/05/79 02/09/79 XSNM01455	44.071 MGS	40.986 MGS	93	FOR NEUTRON DIFFRACTION	JAPAN	(E1) 06/25/79
REUTER STOKES	02/05/79 02/09/79 XSNM01456	1,916.28 MGS	1,782.14 MGS	93	FOR NEUTRON DIFFRACTION	JAPAN	(C1) 02/16/79
MARUBENI AMERICA	02/08/79 02/12/79 XSNM01457	460 GMS	4 GMS	1.5	STANDARD SAMPLES FOR MASS ANALYSIS	JAPAN	(C1) 02/26/79
GLOBE SHIPPING COMPANY	03/05/79 03/12/79 XSNM01475	40 GMS	17 GMS	0.017% TO 97.663%	USE IN MASS SPECTROMETRIC ANALYSIS OF URANIUM ISOTOPES	BRAZIL	(A) 05/22/79

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NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
WESTINGHOUSE	3/21/79 (3/23/79 XSNM01486	54 MGS	50 MGS	93.2	INCORE DETECTORS FOR FLUX MAPPING AT SAYAGO	SPAIN	(C) 03/29/79
WESTINGHOUSE	03/21/79 03/23/79 XSNM01487	54 MGS	50 MGS	93.2	INCORE DETECTORS FOR FLUX MAPPING AT VANDELLOS II	SPAIN	(C) 03/29/79
GLOBE SHIPPING CO.	04/16/79 04/23/79 XSNM01501	0.1 UGM PLUTONIUM-238			AWAITING ENDUSE FROM ULTIMATE CONSIGNEE	BRAZIL	(A) 04/26/79
GENERAL ATOMIC	05/01/79 05/04/79 XSNM01507	1.84 GMS	1.72 GMS	93.0	FISSION COUNTER FOR PRR-1 RES. REACTOR	PHILIPPINES	(C) 05/10/79
RUETER-STOKES	04/26/79 05/04/79 XSNM01508	8.34 GMS	7.68 GMS	93.0	RADIATION DETECTOR FOR R-5 RES. REACTOR	INDIA	(C) 05/10/79
MARUBENI	05/17/79 06/08/79 XSNM01522	9.5 GMS PLUTONIUM 8 GMS	2.78 GMS	DEPL THRU 93%	SAFEGUARDS ANALYTICAL LAB.	JAPAN	(C1) 06/20/79
ISOTOPE PROD.	06/12/79 06/18/79 XSNM01523	1 UGM PU-238 2 UGM PLUTONIUM		80.0	STUDY GROUND WATER TRACING	W.GERMANY	(C) 06/25/79
WESTINGHOUSE	06/13/79 06/18/79 XSNM01524	3.62	3.36	93.0	RESEARCH WITH EURATOM	NETHERLANDS	(C1) 06/22/79
TEXAS NUCL.	06/12/79 06/18/79 XSNM01525	1.76 MGS	1.415 PU-238	80.0	LABATORY PURPOSES	ITALY	(H) 06/18/79
RUETER-STOKES	06/18/79 06/20/79 XSNM01526	27.5 MGS 21.9 MGS U-234	5.5 MGS	20.0	INCORE FLUX MONITORS AT RINGHALS I	SWEDEN	(C1) 06/27/79
EBERLINE INST.	06/18/79 06/21/79 XSNM01528	.100 UGM PLUTONIUM			CALIBRATION OF RADIATION DETECTION	UNITED KINGDOM	(C1) 06/27/79
TEXAS NUCL.	06/21/79 06/25/79 XSNM01530	1.760 PU	1.415 PU-238	80.0	ANALYSIS OF CARBON AND ALLOY STEELS	CANADA	(B) 06/25/79

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<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< SOURCE MATERIAL (MINOR CASES) >>>							
TRANSNUCLEAR	06/27/77 06/27/77 XU08385	820 DEPLETED URANIUM			BLENDING TEST OF UF6	JAPAN	(C) 07/19/77 ✓
TRANSNUCLEAR	05/10/78 05/10/78 XU08415	3,080 DEPLETED URANIUM			EXPERIMENT OF LAB SCALE UF6-U02 CON-VERSION FACILITY	MEXICO	(C) 05/25/78 ✓
DRESSER ATLAS	07/09/78 08/15/78 XU08432	82 DEPLETED URANIUM			CONTAINED IN SINTER BARS TO AID IN OILWELL LOGGING	IRAN	(C) 08/18/78 ✓
TELEDYNE	01/29/79 02/01/79 XU08449	50 DEPLETED URANIUM			FOR CALIBRATION OF TLD DOSIMETER SYSTEM	CONDITION II COUNTRIES	(C) 02/22/79 ✓
ARAMCO	04/02/79 05/04/79 XM08463	54 DEPLTED URANIUM			FOR OILWELL LOGGING	SAUDI ARABIA	(C) 05/16/79

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NAME OF APPLICANT	DATE OF APPL DATE RECEIVED LICENSE NUMBER	QUANTITY & KIND OF MATERIAL (KILOGRAMS) ELEMENT	ISOTOPE	PERCENT	USAGE	COUNTRY OF DESTINATION	STATUS
<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< BYPRODUCT MATERIAL >>							
EBERLINE	05/17/78 05/22/78 XB000959	.020 MCI NP-237			INSTRUMENT CALIBRATION	S.W. AFRICA NAMIBIA	(C) 05/26/78
EDLOW INTN'L	12/18/78 12/20/78 XB001005	50,000 CURIES BULK TRITIUM GAS			TO BE RESOLD IN VARIOUS COUNTRIES NON-NUCLEAR ENDUSE & MFG OF NEUTRON SOURCE	UNITED KINGDOM	(C) 01/03/79
U.S.RADIUM CORPORATION	02/01/79 02/05/79 XB001014	80,000 CIV TRITIUM FOR 2 YRS AT 10,000 CIV PER QUARTER			FOR COMMERCIAL NON-NUCLEAR END-USES	CONDITION II COUNTRIES	(C) 02/08/79 03/19/79
WESTINGHOUSE	03/19/79 03/21/79 XB001023	452 UGM CF-252			FOR STARTUP OPERA-TION AT SAYAGO	SPAIN	(C) 03/26/79
WESTINGHOUSE	03/19/79 03/21/79 XB001024	452 UGM CF-252			FOR STARTUP OPERATION AT VANDELLOS 11	SPAIN	(C) 03/26/79
AMERSHAM	06/06/79 06/15/79 XB001031	400 MCI CURIUM			SEALED SOURCE AS AN X-RAY SOURCE	UNITED KINGDOM	(H) 06/16/79
ISOTOPE PROD.	06/20/79 06/26/79 XB001[illegible]3	50 UCI POLONIUM-210 50 UCI CF-252			TESTING AND RESEARCH	ARGENTINA	(C) 06/28/79

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NAME OF APPLICANT	DATE OF APPLICATION DATE RECEIVED LICENSE NUMBER	DESCRIPTION	COUNTRY OF DESTINATION	STATUS
<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<		COMPONENTS	>>	
GENERAL ELECTRIC CO.	09/13/78 09/18/78 XCOM0057	SPECIALLY DESIGNED PARTS FOR OIKIBUOTO TVO REACTORS VALUE LESS THAN $100,000	FINLAND	(K) 09/25/78 ✓
GLADIX	09/18/78 09/26/78 XCOM0074	ZIRCALOY - 4 TUBES(40,000 LBS) VALUE $774,000	TAIWAN	(C) & (G) 09/29/78 ✓
TELEDYNE WAH CHANG	10/13/78 10/23/78 XCOM0096	110,230 LBS ZIRCALOY-4 TUBE SHELLS FOR FOLLOWING REACTORS: GRAFENRKEINFELD & BIBLIS C, FRG; KWI, IRAN; GOEGEN, SWITZERLAND VALUE $1,844,933	W.GERMANY IRAN SWITZERLAND	(G) 01/29/79 ✓
TELEDYNE WAH CHANG	10/24/78 10/30/78 XCOM0103	2513 KGS ZIRCALOY-4 TUBE SHELLS THROUGH FRG FOR USE IN ATUCHA REACTOR VALUE $90,016.	ARGENTINA	(C) 11/07/78 ✓
WESTINGHOUSE	11/08/78 11/13/78 XCOM0116	ELECTRICAL PENETRATIONS FOR NUCLEAR POWER PLANTS IN USSR, VIA YUGOSLAVIA	USSR	(C) 11/20/78 ✓
GENERAL ELECTRIC CO.	11/22/78 11/27/78 XCOM0121	28 NEUTRON DETECTORS FOR REPLACEMENT IN TVO UNITS NO. 1 & 2 VALUE $700,000	FINLAND	(C) 11/29/78 ✓
GENERAL ATOMIC	12/19/78 12/27/78 XCOM0139	PARTS AND COMPONENTS FOR TR-1 RESEARCH REACTOR AT TURKISH AEC AND TO TECHNICAL UNIV. OF ISTANBUL VALUE $25,000	TURKEY	(C) 01/22/79 ✓
TELEDYNE WAH CHANG	02/28/79 03/06/79 XCOM0189	6610 KGS ZIRCALOY-4 TUBE SHELLS, TO FRG FOR FABRICATION, FOR USE AT ATUCHA VALUE $248,389.	ARGENTINA	(C) 03/09/79 ✓

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NAME OF APPLICANT	DATE OF APPLICATION DATE RECEIVED LICENSE NUMBER	DESCRIPTION	COUNTRY OF DESTINATION	STATUS
REUTER-STOKES	03/08/79 03/19/79 XCOM0205	2 IONIZATION CHAMBERS FOR USE IN GREEK RESEARCH REACTOR NO. 1 VALUE $11,294.	GREECE	(C) 03/20/79 ✓
REUTER-STOKES	03/08/79 03/19/79 XCOM0206	ONE NEUTRON IONIZATION CHAMBER FOR USE IN PARR VALUE $1,275.	PAKISTAN	(C) 03/20/79 ✓
REUTER-STOKES	03/28/79 04/02/79 XCOM0213	ONE COMPENSATED IONIZATION CHAMBER FOR PARR VALUE $2,758.	PAKISTAN	(C) 04/04/79
HOKE INCORPORATED	04/16/79 04/19/79 XCOM0228	BELLOWS SEALED INSTRUMENT ISOLATING VALVES FOR CORDOBA VALUE $31,992.	ARGENTINA	(C) 04/26/79
WESTINGHOUSE ELECT.	04/18/79 04/23/79 XCOM0232	MISC. COMPONENTS FOR ZORITA VALUE $3,000,000.	SPAIN	(C) 04/26/79
GENERAL ATOMIC	04/26/79 04/30/79 XCOM0237	MIS. COMPONENTS FOR UA-RR-1 VALUE $40,605.	EYGPT	(C) 05/03/79

NAME OF APPLICANT	DATE OF APPLICATION DATE RECEIVED LICENSE NUMBER	DESCRIPTION	COUNTRY OF DESTINATION	STATUS
GENERAL ATOMIC	05/01/79 05/04/79 XCOM0241	MISC. PARTS AND COMPONENTS FOR PRR-1 RESEARCH REACTOR VALUE $70,000.	PHILIPPINES	(E) 06/12/79
SANDVIK METALS	05/11/79 05/17/79 XCOM0253	2,100 PIECES OF ZIRCALOY-2 SEAMLESS TUBING FOR BARSEBACK 2 VALUE $168,168.	SWEDEN	(C) 05/23/79
WESTINGHOUSE	05/18/79 05/22/79 XCOM0256	(VIA CANADA) REACTOR PRESSURE TUBES AND MISC. PARTS AND COMPONENTS FOR CORDOBA REACTOR VALUE $10,000,000.	ARGENTINA	(C) 06/01/79
GENERAL ELECTRIC	05/22/79 05/25/79 XCOM0258	ONE FUEL GRAPPLY ASSEMBLY FOR REPLACEMENT IN GARIGLIANO VALUE $195,000.	ITALY	(C) 06/01/79
W.J. WOOLLEY	06/06/79 06/12/79 XCOM0263	MISC. COMPONENTS FOR KORI 3 AND 4 REACTORS VALUE $2,000,000.	S.KOREA	(C) 06/20/79
WESTINGHOUSE	06/19/79 06//21/79 XCOM0267	TWO UNITS OF NUCLEAR ELECTRICAL PENETRATION ASSEMBLIES FOR TAIPOWER 5 AND 6 VALUE $1,690,290.	TAIWAN	(C) 06/25/79
WESTINGHOUSE	06/19/79 06/21/79 XCOM0266	47 VARIOUS TYPES OF ELECTRICAL PENETRATION ASSEMBLIES VALUE $800,000.	SWITZERLAND	(C) 06/25/79
WESTINGHOUSE	06/13/79 06/18/79 XCOM0264	ONE COMPENSATED IONIZATION CHAMBERS FOR BEZNAU VALUE $1,868.	SWITZERLAND	(H) 06/18/79
WESTINGHOUSE	06/13/79 06/18/79 XCOM0265	TWO COMPENSATED IONIZATION CHAMBERS FOR HRR AT PETTEN VALUE $7,750.	NETHERLANDS	(H) 06/18/79
CARPENTER TECH.	06/19/79 06/26/79 XCOM0270	20 ZIRCALOY-4 ALLOY FUEL CHANNELS FOR TOKAI 2 VALUE $90,000.	JAPAN	(H) 06/26/79
PAR SYSTEMS	06/19/79 06/26/79 XCOM0271	850 NEUTRON ABSORBER TUBES FOR FABRICATION INTO STORAGE RACKS FOR GORONA VALUE $900,000.	SPAIN	(B) 06/26/79

SUMMARY OF PENDING EXPORT LICENSES

		MAJOR	MINOR
(A)	APPLICATION IS INCOMPLETE, AWAITING REPLY TO OUR REQUEST FOR MORE INFORMATION	0	2
(B)	BEING PREPARED FOR TRANSMITTAL TO THE EXECUTIVE BRANCH	2	2
(C)	SENT TO STATE DEPARTMENT	71	47
(C1)	SENT TO DOE	0	6
(D)	LETTER RETURNED FROM STATE DEPARTMENT, BEING PREPARED FOR COMMISSION REVIEW	7	0
(D1)	LETTER RETURNED FROM STATE, ROUTINE RELOAD, IN PROCESS OF BEING ISSUED	1	0
(E)	LETTER RETURNED FROM STATE DEPARTMENT, IN PROCESS OF BEING ISSUED	0	1
(E1)	LETTER RETURNED FROM DOE, IN PROCESS OF BEING ISSUED	0	1
(F)	UNDER REVIEW BY COMMISSION	7	0
(G)	SPECIAL CASE REQUIRING FURTHER REVIEW BY NRC STAFF OR EXECUTIVE BRANCH	8	3
(H)	GENERIC APPROVAL	0	5
(I)	CASES RETURNED FROM STATE WITHOUT ACTION	0	0
(J)	AMENDMENT ONLY, EXECUTIVE BRANCH REVIEW NOT REQUIRED, IN PROCESS OF BEING ISSUED	0	0
(K)	AWAITING GENERIC ASSURANCES REGARDING RETRANSFER OF COMPONENTS AND MATERIAL, EXECUTIVE BRANCH REVIEW NOT REQUIRED.	0	1
		96	68
			164