

October 23, 1996

Mr. Robin DeLaBarre  
Office of Export and Import Control  
Bureau of Political-Military Affairs  
U.S. Department of State  
Washington, DC 20520

Dear Mr. DeLaBarre:

Enclosed for your information are reports which list all Nuclear Regulatory Commission export and import cases which were completed, received, or pending during the month of September 1996. In summary, 44 cases were completed, four new license applications or amendment requests were received, and 24 cases were pending as of September 30.

We understand that most of the pending cases listed in the report are awaiting receipt by the Executive Branch of foreign government assurances as required by the Atomic Energy Act of 1954, as amended by the Nuclear Non-Proliferation Act of 1978.

Sincerely,

*Original signed by*  
*Ronald D. Hauber*

Ronald D. Hauber, Director  
Division of Nonproliferation, Exports  
and Multilateral Relations  
Office of International Programs

9610250233 961023  
PDR XPORT  
GENERAL PDR

Enclosures:  
September 1996 Reports

cc w/enclosures:

C. Stoiber, USNRC/OIP  
C. Kincaid, DOE  
R. Goorevich, DOE  
M. Johnson, DOD  
J. Chuchla, DOC  
M. Rosenthal, ACDA  
J. Howe, USCS

bcc w/encl (fm original):

LHilliard, UNVIE  
KLewis, USEC  
DCS/DF02 DF03  
PDR

distr w/encl:

RDHauber, OIP/NEMR  
BLWright, OIP/NEMR  
JRShea, OIP/BCA  
JHoyle, SECY  
TRothschild, OGC  
BHorn, NMSS/FCSS  
MMassengill, DOE/OR  
VAnderson, NAC/MMSS  
OIP/NEMR File  
OIP r/f Central Files

46-133  
FILENAME: G:\EXPORTS\MORPT996.BLW

OFFICE	OIP/NEMR/1	OIP/NEMR A		
NAME	BLWright:tlc	RDHauber		
DATE	10/23/96	10/23/96	1 1	1 1

250084  
XPORT GEN  
OFFICIAL RECORD COPY

IA-1-1 Export/Import



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

October 23, 1996

Mr. Robin DeLaBarre  
Office of Export and Import Control  
Bureau of Political-Military Affairs  
U.S. Department of State  
Washington, DC 20520

Dear Mr. DeLaBarre:

Enclosed for your information are reports which list all Nuclear Regulatory Commission export and import cases which were completed, received, or pending during the month of September 1996. In summary, 44 cases were completed, four new license applications or amendment requests were received, and 24 cases were pending as of September 30.

We understand that most of the pending cases listed in the report are awaiting receipt by the Executive Branch of foreign government assurances as required by the Atomic Energy Act of 1954, as amended by the Nuclear Non-Proliferation Act of 1978.

Sincerely,

A handwritten signature in dark ink, reading "Ronald D. Hauber".

Ronald D. Hauber, Director  
Division of Nonproliferation, Exports  
and Multilateral Relations  
Office of International Programs

Enclosures:  
September 1996 Reports

cc w/enclosures:  
C. Stoiber, USNRC/OIP  
C. Kincaid, DOE  
R. Goorevich, DOE  
M. Johnson, DOD  
J. Chuchla, DOC  
M. Rosenthal, ACDA  
J. Howe, USCS

# NRC Export Licensing Actions Completed 09/01/96 to 09/30/96

License Number	Applicant	Commodity	Quantity	Unit	Country	End Use	Date Applied	Date Received	Date to Exec Br	Date From Exec Br	Date Completed	Expiration Date	Action	License Type
XCOM0057	General Electric	Components/Specially Designed Replace. Parts	0.00	k\$	Finland	TVO, Oskarluoto 1 & 2, License terminated, General Lic. avail.	2/24/93	3/1/93			9/20/96		Terminated	GE
XCOM1027/01	Carpenter Technology	Zircaloy Tubes	2,000.00	k\$	Argentina	Atucha 1, 2, Incr. quantity and value	6/27/94	7/5/94	7/8/94		9/30/96		RWA	EB
XCOM1033	DOE, HQ	Components, Reprocessing Plant	0.00	k\$	Japan	PNC Tokai Works	1/22/90	1/24/90	2/2/90		9/13/96		RWA	EB
XCOM1034	DOE, HQ	Centrifugal Contactors	0.00	k\$	UK	UKAEA, Dounreay	1/22/90	1/24/90	2/2/90		9/13/96		RWA	EB
XCOM1037	Carpenter Technology	Zircaloy-4 BWR Fuel Channels (400)	3,000.00	k\$	Finland	TVO, Oskarluoto 1 and 2, License terminated, General Lic. avail.	7/27/92	8/3/92			9/19/96		Terminated	GE
XCOM1047/01	Westinghouse Electric	Steam Generator Plugs	0.00	k\$	Hungary, Poland, Finland, Russia	various nuclear power plants	5/15/90	5/21/90	5/24/90		9/26/96		RWA	EB
XCOM1047/02	Westinghouse Electric	Steam Generator Plugs	8,500.00	ea	Hungary, Russia	Various power reactors, Add ult. consignees, Incr. quantity	10/11/90	10/19/90	10/25/90		9/30/96		RWA	EB
XCOM1080	Carpenter Technology	Zircaloy-4 Channels, Fasteners	1,000.00	ea	Mexico	Laguna Verde 1, 2	7/18/91	7/23/91	8/7/91		9/30/96		RWA	EB
XCOM1063/01	General Atomics	Components, Additional Equipment	365.00	k\$	Austria	TRIGA Mark II, License terminated, General Lic. avail, Incr. Qty.	10/24/91	10/25/91	10/31/91	2/4/92	9/19/96		Terminated	GE
XCOM1087	Conax Buffalo	Components	6,300.00	k\$	Finland	TVO, Oskarluoto 1 & 2, License terminated, General Lic. avail.	1/11/94	1/12/94	1/26/94	3/2/94	9/19/96		Terminated	GE
XCOM1090	General Electric	Zirconium Alloy Zircaloy-2 Test Coupons(500)	5.00	k\$	Russia	SM-3, MIR, or BOR60, Neutron irrad. R & D	4/15/94	4/20/94	5/2/94		9/30/96		RWA	EB
XCOM1093/01	Westinghouse Electric Corporation	Components, App. A(5)-(9), Including I&C System, Etc.	0.00	k\$	Ukraine	Remove restrictions on exports to intermediate consignees	9/18/96	9/16/96			9/18/96	12/31/10	Issued	GE

License Number	Applicant	Commodity	Quantity	Unit	Country	End Use	Date Applied	Date Received	Date to Exec Br	Date From Exec Br	Date Completed	Expiration Date	Action	License Type
XCOM1096/02	Imaging & Sensing Technology	Incore Detector Components	0.00	ea	Ukraine	Amend to add ult. consignees, incr. quantity	12/9/94	12/12/94	12/14/94		9/20/96	1/31/05	Issued	EB
XCOM1099	Siemens Power	15 stainless steel fuel assemble tie plates;	22.50	k\$	Finland	TVO, Oikiluoto 1, License terminated, General Lic. avail.	1/17/96	1/23/96	2/5/96	2/16/96	9/20/96		Terminated	GE
XCOM8561/10	Transnuclear	Natural U, Various forms	0.00	kg	EURATOM	Enrich in EURATOM & fuel for EU & US reactors; extend exp. dt.	12/27/95	1/2/96	3/19/96	9/12/96	9/13/96	12/31/99	Issued	AS
XR064/14	General Electric	BWR, 1466 MWE	0.00	k\$	Spain	Nuclear License terminated, General Lic. avail.	5/1/91	5/2/91			9/30/96		Terminated	GE
XR068/15	General Electric	BWR, 300 MWE	0.00	k\$	Switzerland	Muehleberg, License terminated, General Lic. avail.	11/7/95	11/13/95			9/10/96		Terminated	GE
XR069/16	Westinghouse	PWR, 810 MWE		k\$	Sweden	Add reactor vessel head	11/16/93	11/17/93	11/29/93		9/15/96		Terminated	EB
XR077/06	General Electric	BWR, 8120 MWE	0.00	k\$	Italy	Caorso, License terminated, General Lic. avail.	5/2/91	5/3/91			9/10/96		Terminated	GE
XR080/11	General Electric	BWR, 604 MWE, 2	0.00	k\$	Taiwan	Chinshan 1 & 2, Ext. exp. date	5/3/96	5/6/96			9/30/96	1/31/00	Issued	GE
XR097/06	General Electric	BWR, 9646 MWE	0.00	k\$	Spain	Cofrentes, License terminated, General Lic. avail.	6/17/96	6/18/96			9/9/96		Terminated	GE
XR110/05	General Electric	BWR, 2694 MWt, 2	0.00	k\$	Spain	Valdecaballeros 1 & 2, Lic. Term., Gen. Lic. avail.	5/1/91	5/2/92			9/10/96		Terminated	GE
XR126/04	General Atomics	Research Reactor, TRIGA-Mk II, 3 MWt	500.00	k\$	Bangladesh	BAEC, Savar, Ext. exp. dt., Incr. value, auth. re-export	4/9/92	4/21/92	4/27/92		9/13/96		RWA	EB
XR154	General Atomics	Research Reactor TRIGA Mark I, 250 kW	1,700.00	k\$	Albania	TRIGA Mark I Research Reactor	10/9/90	10/10/90	10/12/90		9/13/96		RWA	EB
XR160	Combustion Engineering	PWR, 1300 MWE, 2	600,000.00	k\$	Czech Republic, Slovak Republic	Unnamed sites	8/2/91	8/5/91	8/7/91		9/18/96		Withdrawn	EB
XR161	Combustion Engineering	PWR, 1300 MWE, 2	500,000.00	k\$	UK	Sellafield & Chapelcross	8/2/91	8/5/91	8/7/91		9/18/96		Withdrawn	EB

License Number	Applicant	Commodity	Quantity	Unit	Country	End Use	Date Applied	Date Received	Date to Exec Br	Date From Exec Br	Date Completed	Expiration Date	Action	License Type
XR164	DOE/HQ	Complete control rod system; main coolant pump & various components	550.00	k\$	Colombia	IAN-R1 research reactor convert core from HEU to LEU	3/28/96	3/29/96	4/4/96	4/10/96	9/25/96	12/31/01	Issued	EB
XSNM2063	General Atomics	LEU, 19.90%, as fuel elements or clusters	4.50	kg	Turkey	Cekmece, TRIGA Mark II	7/26/83	7/29/83	8/4/83		9/13/96		RWA	EB
XSNM2641	Combustion Engineering	LEU, 5.0%, as Fuel Assemblies	218,000.00	kg	Czech Republic	Unnamed units (2), Initial cores	8/2/91	8/5/91	8/7/91		6/18/96		Withdrawn	EB
XSNM2645	General Atomics	LEU, 19.9%, as Fuel Assemblies	20.81	kg	Albania	TRIGA Mark I, Initial core	8/6/91	8/8/91	9/3/91		9/13/96		RWA	EB
XSNM2650/01	Gamma-Metris	HEU, 93.12%, in fission chambers	0.11	kg	Sweden	Ringhals 2, 3, 4	8/7/91	8/8/91	9/27/91		9/30/96		RWA	EB
XSNM2763	Siemens Power	LEU, 5.0%, as UO2, and various forms	35,000.00	kg	Germany	Return of scrap for recovery	7/23/93	7/26/93	7/30/93		9/11/96		Withdrawn	AS
XSNM2786	General Atomics	LEU, 19.99%, 1kg Fuel & 100kg scrap, HEU, 290kg scrap	101.29	kg	UK	ICI TRIGA & UKAEA & scrap	11/22/93	11/26/93	11/30/93		9/13/96		RWA	AS
XSNM2788	B&W Fuel	LEU, 5%, as Fuel Assemblies	416,800.00	kg	Taiwan	Lungmen 1 & 2, Initial cores & 3 reloads	11/23/93	12/3/93	12/17/93		9/13/96		RWA	EB
XSNM2879/01	General Atomics	LEU, 19.9%, as Metal, Scrap,	0.00	kg	France	Fuel for EURATOM reactors, extend exp. date	12/22/95	1/31/96	3/19/96	9/19/96	9/20/96	12/31/99	Issued	AS
XSNM2911	Siemens Power	LEU, 5.0%, as UF6	25,000.00	kg	Germany	Unterweser 1	12/7/95	12/12/95	12/15/95		9/5/96		Withdrawn	AS
XSNM2941	Mitsui USA	LEU, 4.95%, & Natural as UO2	15,753.00	kg	Japan	Fukushima I, Unit 1	6/26/96	6/28/96	7/1/96	8/29/96	9/5/96	5/31/96	Issued	AS
XSNM2942	DOE-COO	LEU, (19.95%) as Irradiation test plates	0.50	kg	South Korea	Irradiation testing at KAERI	6/3/96	7/22/96	7/29/96	9/12/96	9/19/96	7/31/01	Issued	AS
XSNM2944	Transnuclear	LEU, 4.47%, as UF6	16,844.00	kg	France	For conversion and pellet fabrication and return to US	8/2/96	8/5/96	8/6/96	9/9/96	9/13/96	9/30/99	Issued	AS
XSOU8731	AlliedSignal	Natural U, as calcium fluoride	75,000.00	kg	Czech Republic	Recovery of U, then power reactor fuel	8/8/94	8/30/94	9/2/94		9/30/96		RWA	EB
XSOU8735	Shieldalloy Metallurgical	Natural U and Thorium, as CANAL slag fluidizer	83.15	kg	Trinidad	Steelmaking additive	12/20/94	12/27/94	1/13/95		9/30/96		RWA	EB

License Number	Applicant	Commodity	Quantity	Unit	Country	End Use	Date Applied	Date Received	Date to Exec Br	Date From Exec Br	Date Completed	Expiration Date	Action	License Type
XSOUB73701	Edlow International	Natural U, as U308	0.00	kg	Canada	Conversion (Enrichment and use as fuel for EURATOM & US), extend exp. date by 3 yrs.	12/21/95	1/2/96	3/19/96		9/20/96	12/31/99	Issued	AS
XU0862104	Edlow International	Natural U, as U308	0.00	kg	Canada	Conversion (Enrichment and use as fuel in EURATOM), extend exp. date by 3 yrs.	12/21/95	1/2/96	3/19/96		9/20/96	12/31/99	Issued	AS
XVW001	Mastier Intl	LLW, Class A	276,090.00	m3	Russia	Disposal	8/22/95	9/27/95			9/30/96		RWA	EB

# NRC Export License Applications Received 09/01/96 to 09/30/96

<u>License Number</u>	<u>Applicant</u>	<u>Commodity</u>	<u>Quantity</u>	<u>Unit</u>	<u>Country</u>	<u>End Use</u>	<u>Date Applied</u>	<u>Date Received</u>	<u>Date to Exec Br</u>	<u>Date From Exec Br</u>	<u>Date Completed</u>	<u>Expiration Date</u>	<u>Action</u>	<u>License Type</u>
XB1294	US DOE-OR	Cf-249 (1 microgram)	0.00	Cl	United Kingdom	For use in calibrating detectors in alpha spectrometry work	8/27/96	9/26/96					Pending	GE
XCOM1093/01	Westinghouse Electric Corporation	Components, App. A(5)-(9), including I&C System, Etc.	0.00	k\$	Ukraine	Remove restrictions on exports to intermediate consignees	9/18/96	9/18/96			9/18/96	12/31/10	Issued	GE
XSNM2947	Mitsui USA	LEU, 4.45%, as UC2	37,445.00	kg	Japan	Fukushima I, 6	9/6/96	9/12/96	9/19/96				Pending	AS
XSOU8749	Siemens	DU as Metal	100.00	kg	Germany	Working stock for downblending	9/20/96	9/26/96	9/30/96				Pending	AS

# NRC Export Licensing Actions Pending as of 09/30/96

License Number	Applicant	Commodity	Quantity	Unit	Country	End Use	Date Applied	Date Received	Date to Exec Br	Date From Exec Br	Date Completed	Expiration Date	Action	License Type
NW001	Nuclear Sources & Services	LLW, Containing Nickel 63	940.00	lit	Mexico	Treatment in Texas, Disposal at Barnwell, SC	9/22/95	10/18/95	11/21/95				Pending	EB
XB1285/02	E. I. DuPont/NEN Life Sciences Co.	Tritium (Gas)	0.00	Cl	Brazil	Amend to change lic. name to NEN Life Sciences Co.	5/21/96	5/23/96					Pending	GE
XB1294	US DOE-OR	Cf-249 (1 microgram)	0.00	Cl	United Kingdom	For use in calibrating detectors in alpha spectrometry work	8/27/96	9/26/96					Pending	GE
XCOM1085	Westinghouse	Components, Various		k\$	South Africa	Koeberg 1, 2	11/17/93	11/18/93	11/26/93				Pending/Prop.	EB
XCOM1094/01	Westinghouse Electric	Instrumentation & Control System Equipment & Services	0.00	k\$	Russia	Amend to add add'l equipment & services	8/3/94	8/4/94	8/4/94				Pending/Prop.	EB
XM08561/11	Transnuclear	Natural U, DU and Th	0.00	kg	EURATOM	Add'l. U/C awaiting assurances	12/27/95	1/2/96	3/19/96				Pending	AS
XMAT0392	Cambridge Isotope Labs	Deuterium oxide, heavy water	22,500.00	kg	U.A.E.	"Mud Tracer" in oil exploration	4/19/96	4/25/96	5/29/96				Pending	EB
XR162	Combustion Engineering	PWR, 1000 MWE, 2	200,000.00	k\$	South Korea	Yonggwang 5 & 6	8/2/91	8/5/91	8/7/91				Pending	EB
XR163	Combustion Engineering	PWR, 1000 MWE, 2	0.00	k\$	South Korea	Ulchin 5, 6	8/10/95	8/15/95	8/30/95				Pending/Prop.	EB
XSNM1906/03	General Electric	LEU, 5.0%, and Nat. U in various forms	0.00	kg	Switzerland	Muehleberg, Change U/C Name	11/7/95	11/13/95					Pending	AS
XSNM2563	Combustion Engineering	LEU, 5.0%, as Powder or Pellets	160,000.00	kg	South Korea	Ulchin 3, 4, Initial cores	8/31/90	9/5/90	9/12/90				Pending	EB
XSNM2580	Transnuclear	HEU, 93.3%, as Metal	69.35	kg	France	HFR Grenoble	12/19/90	1/2/91	1/10/91				Pending	EB
XSNM2611	Transnuclear	HEU, 93.45%, as Metal	9.78	kg	Netherlands	HFR Petten	5/7/91	5/10/91	5/21/91				Pending	EB
XSNM2642	Combustion Engineering	LEU, 5.0%, Various Forms	160,000.00	kg	South Korea	KNU 15, 16, Initial cores	8/2/91	8/5/91	8/7/91				Pending	EB
XSNM2667/01	Transnuclear	HEU, 93.3%, as metal	0.00	kg	Canada	Extend exp. dt., target material for mfg. of medical isotopes	12/11/95	12/18/95					Pending	EB
XSNM2858	DOE-HQ	LEU, 19.9%, as TRIGA fuel elements	15.80	kg	Colombia	IAN-R1 Research Reactor replacement core	1/31/95	2/9/95	2/14/95	3/11/95			Pending	EB

23-Oct-96

Pending Report Page 1 of 2

Location of physical security upgrade



License Number	Applicant	Commodity	Quantity	Unit	Country	End Use	Date Applied	Date Received	Date to Exec Br	Date From Exec Br	Date Completed	Expiration Date	Action	License Type
XSNM2888/01	DOE, OR	LEU, 19.8%, as metal discs	0.00	kg	Belgium	Joint Research Center, Prep of certified reference material; extend exp. date	3/19/96	3/26/96	3/27/96				Pending	AS
XSNM2904/01	Edlow International	LEU, 4.15%, as UF6	0.00	kg	Germany, France & Sweden	Reload for EURATOM reactors; extend exp. date by 3 yrs.	12/21/95	1/2/96	3/19/96				Pending	AS
XSNM2943	DOE-LANL	Pu (1.04 kg), Nat U (2.65 kg) and Depl U (32.13 kg) as fuel pellets in tubes	1.04	kg	Canada	Irradiation in NRU test reactor	7/11/96	7/12/96	7/29/96	9/16/96			Pending	EB
XSNM2945	Mitsubishi International	LEU, 4.05%, as UF6	10,708.00	kg	Japan	Mihama 2, 22	7/18/96	8/5/96	8/6/96				Pending	AS
XSNM2946	Mitsubishi International	LEU, 4.15%, as UF6	18,331.00	kg	Japan	Ohi 3, 8	8/5/96	8/13/96	8/16/96				Pending	AS
XSNM2947	Mitsui USA	LEU, 4.45%, as UO2	37,445.00	kg	Japan	Fukushima I, 8	9/6/96	9/12/96	9/19/96				Pending	AS
XSOU8746	Edlow International	Th as ThO2	201.00	kg	Japan	For use in mfg. heat resistant vessels	7/1/96	7/3/96	7/17/96				Pending	AS
XSOU8749	Siemens	DU as Metal	100.00	kg	Germany	Working stock for downblending	9/20/96	9/26/96	9/30/96				Pending	AS