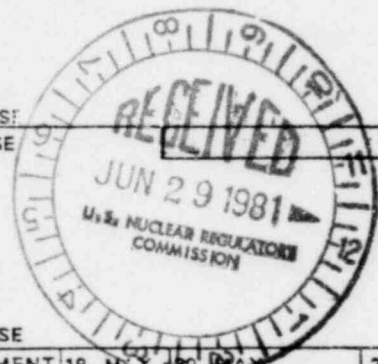


APPLICATION FOR LICENSE TO EXPORT NUCLEAR
MATERIAL AND EQUIPMENT (See Instructions on Reverse)

ACC

1. APPLICANT'S USE		a. DATE OF APPLICATION 6/22/81		b. APPLICANT'S REFERENCE ZE-60213		2. NRC USE		a. DOCKET NO. 1100 2532		b. LICENSE NO. XCOM054	
3. APPLICANT'S NAME AND ADDRESS a. NAME W. F. Pochal Westinghouse Electric Corporation b. STREET ADDRESS Industrial & Gov't. Tube Div. Westinghouse Circle c. CITY Horseheads, N.Y. ZIP CODE 14845 c. TELEPHONE NUMBER (Area Code - Number - Extension) (607) 796-3221						4. SUPPLIER'S NAME AND ADDRESS RIS (Complete if applicant is not supplier of material) --- SAME ---					
5. FIRST SHIPMENT SCHEDULED 10/19/81		6. FINAL SHIPMENT SCHEDULED 10/19/81		7. APPLICANT'S CONTRACTUAL DELIVERY DATE 10/19/81		8. PROPOSED LICENSE EXPIRATION DATE 10/19/82		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known)			
10. ULTIMATE CONSIGNEE a. NAME Tokai Research Establishment Japan Atomic Energy Research Institute b. STREET ADDRESS 204 Shirakata-Shirane, Tokai-Mura c. CITY - STATE - COUNTRY Naka-Gun, Ibaraki-Ken Japan						11. ULTIMATE END USE (Include plant or facility name) Japan Research Reactor No. 4 (Swimming Pool Type) Research and experimental. Tokai-Mura, Naka-Gun, Ibaraki-Ken - CIC will detect neutron signals in JRR-4 Reactor 11a. EST. DATE OF FIRST USE that is used for research.					
12. INTERMEDIATE CONSIGNEE a. NAME b. STREET ADDRESS c. CITY - STATE - COUNTRY						13. INTERMEDIATE END USE Previous License issued for WL23054 - XCOM0261.					
14. INTERMEDIATE CONSIGNEE a. NAME b. STREET ADDRESS c. CITY - STATE - COUNTRY						15. INTERMEDIATE END USE 15a. EST. DATE OF FIRST USE					
16. NRC USE		17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components) 1 WL23084 Compensated Ionization Chamber \$ 5,775.00				18. MAX. ELEMENT WEIGHT		19. MAX. WEIGHT %		20. ISOTOPE WT. UNIT	
						ALTERNATE SPINDS		EXPORT/IMPORT		JUN 24 AM 9 11	
22. COUNTRY OF ORIGIN - SOURCE MATERIAL USA				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)			
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) Form ITA 629 and End Use Statement Letter from J.A.E.R.I.											
26. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information in this application is correct to the best of his/her knowledge.											
27. AUTHORIZED OFFICIAL				a. SIGNATURE <i>W.F. Pochal</i>				b. TITLE Manager, Customer Service			



STATEMENT BY ULTIMATE CONSIGNEE AND PURCHASER

GENERAL INSTRUCTIONS - This form must be submitted by the importer (ultimate consignee shown in Item 1) and by the overseas buyer or purchaser, to the U.S. exporter or seller with whom the order for the commodities described in Item 3 is placed. This completed statement will be submitted in support of one or more export license applications to the U.S. Department of Commerce. All items on this form must be completed. Where the information required is unknown or the item does not apply, write in the appropriate words "UNKNOWN" or "NOT APPLICABLE." If more space is needed, attach an additional copy of this form or sheet of paper signed as in Item 8. Submit form within 180 days from latest date in Item 8.

1. Ultimate consignee name and address
 Name **Tokai Research Establishment**
Japan Atomic Energy Research Institute
 Street and number
2-4 Shirakata-Shirane, Tokai-Mura
 City and Country
Naka-Gun, Ibaraki-Ken, Japan
 Reference (if desired)
TLWE/60564

2. Request (Check one)

a. We request that this statement be considered a part of the application for export license filed by
Westinghouse Electric Corp. Westinghouse Circle, Horseheads
Industry & Gov't Tube Div. N.Y. 14845, U. S. A.

U.S. exporter or U.S. person with whom we have placed our order (order party)
 for export to us of the commodities described in item 3.

b. We request that this statement be considered a part of every application for export license filed by

U.S. exporter or U.S. person with whom we have placed or may place our order (order party)
 for export to us of the type of commodities described in this statement, during the period ending June 30 of the second year after the signing of this form, or on _____

3. Commodities

We have placed or may place orders with the person or firm named in Item 2 for the commodities indicated below:

COMMODITY DESCRIPTION	<i>(Fill in only if 2a is checked)</i>	
	QUANTITY	VALUE
Type WL-23084 Compensated Ionization Chamber	1 pce	\$5,775.00
	P. O. B.	US\$5,775.00

4. Disposition or use of commodities by ultimate consignee named in Item 1 (Check and complete the appropriate box(es))

We certify that the commodity(ies) listed in Item 3:

a. Will be used by us (as capital equipment) in the form in which received in a manufacturing process in the country named in Item 1 and will not be reexported or incorporated into an end product.

b. Will be processed or incorporated by us into the following product(s) _____
(Specify)
 to be manufactured in the country named in Item 1 for distribution in _____
(Name of country or countries)

c. Will be resold by us in the form in which received in the country named in Item 1 for use or consumption therein.
 The specific end-use by my customer will be _____
(Specify, if known)

d. Will be reexported by us in the form in which received to _____
(Name of country(ies))

e. Other (Describe fully) _____

NOTE: If Item (d) is checked, acceptance of this form by the Office of Export Administration as a supporting document for license applications shall not be construed as an authorization to reexport the commodities to which the form applies unless specific approval has been obtained from the Office of Export Administration for such reexport.

(Reproduction of this form is permissible, providing that content, format, size and color of paper are the same)

5. Nature of business of ultimate consignee named in Item 1 and his relationship with U.S. exporter named in Item 2.

a. The nature of our usual business is national institute for scientific research
(Broker, distributor, fabricator, manufacturer, wholesaler, retailer, etc.)

b. Our business relationship with the U.S. exporter is _____
(Contractual, franchise, exclusive distributor, distributor, wholesaler, continuing and regular individual transaction business, etc.)
 and we have had this business relationship for _____ years.

6. Additional information (Any other material facts which will be of value in considering applications for licenses covered by this statement.)

The purchaser of commodity name in Item-3, Rikei Corporation is a distributor of Westinghouse Electric Corp.'s products in Japan and this business relationship has been kept about 9 years.

7. Assistance in preparing statement (Names of persons other than employees of consignee or purchaser who assisted in the preparation of this statement.)

non-applicable

8. CERTIFICATION OF ULTIMATE CONSIGNEE AND PURCHASER (This item is to be signed by the ultimate consignee shown in Item 1 and by the purchaser where the latter is not the same as the ultimate consignee. Where the ultimate consignee is unknown, this item should be signed by the purchaser.)

We certify that all of the facts contained in this statement are true and correct to the best of our knowledge and belief and we do not know of any additional facts which are inconsistent with the above statement. We shall promptly send a supplemental statement to the person named in Item 2, disclosing any change of facts or intentions set forth in this statement which occurs after the statement has been prepared and forwarded. Except as specifically authorized by the U.S. Export Administration Regulations, or by prior written approval of the U.S. Department of Commerce, we will not reexport, resell, or otherwise dispose of any commodities listed in Item 3 above: (1) to any country not approved for export as brought to our attention by means of a bill of lading, commercial invoice, or any other means; or (2) to any person if there is reason to believe that it will result directly or indirectly, in disposition of the commodities contrary to the representations made in this statement or contrary to U.S. Export Administration Regulations.

Ultimate Consignee

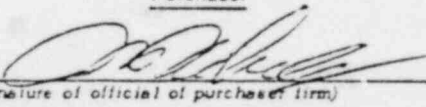
Signature in ink M. Isaka
(Signature of official of ultimate consignee)

M. Isaka
Member of JRR-4 Reactor
Control Section, JAERI

Type or print _____
(Name and title of official of ultimate consignee)

Date MAY. 19. 1981

Purchaser

Signature in ink 
(Signature of official of purchaser firm)

M. Hakada, Manager
Administration Dept.

Type or print _____
(Name and title of official of purchaser firm)

Type or print Rikei Corporation
(Name of purchaser firm)

Date MAY. 14. 1981

9. CERTIFICATION FOR USE OF U.S. EXPORTER in certifying that any correction, addition, or alteration on this form was made prior to the signing by the ultimate consignee and purchaser in Item 8.

We certify that no correction, additions, or alterations were made on this form by us after the form was signed by the (ultimate consignee) (purchaser).

Type or print _____
(Name of exporter firm)

Sign here in ink _____
(Signature of person authorized to certify for exporter)

Type or print _____
(Name and title of person signing this document)

_____ (Date signed)

The making of any false statement, the concealment of any material fact, or failure to file required information may result in denial of participation in U.S. exports. Notarial or Governmental certification is not required.

JAPAN ATOMIC ENERGY RESEARCH INSTITUTE

TOKAI RESEARCH ESTABLISHMENT

TOKAI-MURA, NAKA-GUN, IBARAKI-KEN

APPLICATION

May 19, 1980

1) Uses of the Subject Product

JRR-4 (JAPAN-RESEARCH Reactor-4, swimming pool type) has been built as power reactor for shield research use such as nuclear-powered ship named "Mutsu", etc. In addition, the aforesaid reactor has a high efficiency of usage and is being widely used through the open research laboratory which is composed of Univ. of Tokyo, etc., as well as for research of RI, Physical/Chemical experiments, other basic research work relative to atomic power, research work internally at this research lab. In order that high accuracy of experiment/research can be obtained, it is a matter of primary importance for us to make available highly stable nuclear power (neutron flux) to research workers and engineers.

To meet the foregoing condition, it is essential to keep stable reactor power which depends upon accuracy of Compensated Ionization Chamber (hereinafter called "CIC"). To this end, Japan Atomic Energy Research Inst. has purchased reliable type WL-23084 of Westing-House manufacturing which has actually been purchased in the past.

As stated, this CIC is indispensable for the operating of nuclear reactor and being used for high academic and scientific research purpose on universal basis. The CIC is being utilized in the following portions of this reactor.

Neutron instrumentation system is made up of start-up system, main power system or power system (plural quantity) and safety system and is used with 4 pieces of CIC's as detector.

- cont'd -

JAPAN ATOMIC ENERGY RESEARCH INSTITUTE

TOKAI RESEARCH ESTABLISHMENT

TOKAI-MURA, NAKA-GUN, IBARAKI-KEN

The main power system consists of 2 linear amplitude systems (hereinafter called "Lin-N System") having an indicator of linear graduation, logarithm amplification reactor period system (hereinafter called "Log-N System") having indicator of logarithm graduation and 1 safety system. Lin-N System is utilized mainly for detecting of minute power and for automatic control. Log-N System is used for the detecting of overall power, and for detecting of degree of fast and slow of power variation. The safety system detects reactor power at the time of control system power supply being lost. The CIC being used in these systems are compatible and this products is used as spare for the aforementioned systems.

2) How to use the Subject Product

The CIC will detect neutron signal of each device. Log-N System indicates and records all power at 1 Range by logarithm graduation and measure rising temperature period of power by use of period amp. and prevents accidents such as "run-away" from occurring by emergency shut-down.

There are two Lin-N Systems which records linearity with a range-transfer device and provides signal for AUTO system. While automatic controller is in operation, Lin-N System drives a control rod by a deviation signal. There is one safety system which operates CIC amp. for safety system and observes reactor power when power supply to each CIC and each system run short, so that reactor power can be observed.

M. Isaka

M. Isaka
Member of JRR-4 Reactor
Control Section, JAERI

Address of JRR-4

2-4 Shirakata-Shirane
Tokai-mura, Naka-gun
Ibaraki-ken, Japan