b. TITLE Joseph D. Skarupa, Sales Manager

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

APPLICANT'S a. DATE	OF APPLICATION 6.	OE-7926	2 NRC	XSN A O I	536	1100068-	5	
APPLICANT'S NAME AND ADDRESS RIS			4. SUPPLI	IER'S NAME AND ADDRE	SS of material)	RIS	No.	
NAME Reuter-Sto		Ny 12 12 1	Comple	ete ir applicant is not supplied		1 1980 Final River		
STREET ADDRESS	h Miles Parkw	av	s. NAME		h de la sy	, Jen 2		
CITY STATE ZIP CODE			b. STREET ADDRESS					
TELEPHONE NUMBER (Area Code - Number - Extension)			c. CITY	70.00		STATE ZIP CODE		
216-475-3434  6. FIRST SHIPMENT 7. APPLICANT'S CONSCIPLINED SCHEDULED DELIVERY DATE			TRACTUAL	RACTUAL 8. PROPOSED LICENSE 9. U.S. DEPARTMENT OF ENERGY EXPIRATION DATE CONTRACT NO. (If Known)				
	10-11-79		and the second	12-11-79	1 10			
10-11-79		RIS CONTRACTOR	11. ULTI	MATE END USE		and the same	15.1	
- NAME	State Power	Board	(Inclui	de plant or facility name!	itorino	ar Ringhals	1	
b. STREET ADDRESS Ringhal				Reactor	120012115	ac manginaro		
c. CITY - STATE - COUNTRY Sweden			11a. EST	DATE OF FIRST USE	April			
12. INTERMEDIATE CONSIGNEE RIS						が、大学		
b. STREET ADDRESS  c. CITY - STATE - COUNTY  14. INTERMEDIATE CONS  a. NAME  b. STREET ADDRESS  c. CITY - STATE - COUNTY	NTRY	RIS	15. INTE	r. DATE OF FIRST 1/SE				
16. NRC (Include ch	17. DE emical and physical form	SCRIPTION n of nuclear material; give do	lar value of	18. MAX. ELEMENT	139. MAX. WT. %	1	21. UN	
Reuter-St data shee	okes LPRM Ass t 9.12 Regene ensitive mate 0 are for 5 L		ed on 4/U-235 n Llocks	27.5 mg	20% U-235 80% U-234	21.9 mg U-234	5 asm	

26. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations, seed that all information in this

. SIGNATURE Quesch O. SKULLIPG.

application is correct to the best of his/her knowledge.

27. AUTHORIZED OFFICIAL

# neutron and gamma measurance capability and perform auce ex ence. Our goal is to have the Reuter Stokes sypony core radiation measuremen

## RS-C6-1100 Local Power Range Monitor (LPRM) Assembly

For use in your General Electric Company Design BWR

The RS-C6-1100 is Reuter-Stokes' proven LPRM assembly which is electrically and mechanically interchangeable with the General Electric Company design for BWR core instrumentation.

The assembly including fission chambers, calibration tube, plunger, sea 'ug and gland is to the exact dimensions require direct replacement in the core support structure of all BWR reactors using standard removal and replacement procedures.

Reuter-Stokes has extensive experience in the design and manufacture of miniature fission chambers of the type used in the LPRM assembly. Features incorporated into the design are based on our experience as well as the need to provide an interchangeable unit. In addition the design has been thoroughly tested in BWR operation.

State of the art welding and ceramic to metal bonding is used throughout the detector manufacture. Particular care has been taken in the design and manufacture of the seal between detector and detector lead cable.

Design of the Reuter-Stokes' LPRM conforms to the ASME Boiler and Pressure Vessel Code. Manufacture and testing is to meet the requirements of Class 1E Safety Related Nuclear Instrumentation. The company is listed as a qualified supplier in the U.S. register of the Coordinating Agency for Supplier Evaluation (CASE) and the USNRC report on License Contractor and Vendor Inspection Status.

#### Specifications

#### MECHANICAL

See sketch (on front side) for a brief overall outline of mechanical configuration. Detailed drawings are supplied with each offer and with each snipment.

#### MATERIAL

#### TYPICAL OPERATING CHARACTERISTICS

(Each of four detectors in the assembly).

Thermal neutron sensitivity:

In BWR Spectrum. . . . . . 1 x  $10^{-17}$  amp/nv  $\pm 20\%$ (To  $1.5 \times 10^{-17}$  amp/nv on request)

Thermal neutron flux range . . . . . 1.4 x  $10^{12}$  to 1.4 x  $10^{14}$  mV Gamma sensitivity . . . . . 2 x  $10^{-14}$  amp/R/hr  $\pm 20\%$ 

Deviation of neutron signal from

Burn-up life . . . . . 2.5 years @ 6.7 x 10<sup>13</sup> n/cm<sup>2</sup> sec<sup>-1</sup>

in a BWP spectrum

This value corresponds to a sensitivity reduction to 5:1 of

neutron to gamma signal.

impedance:

#### MAXIMUM RATINGS

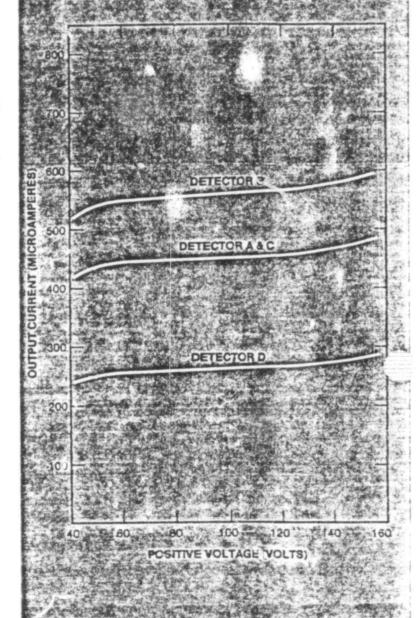
Voltar 200V

Design Temperature: (Continuous) 600°F

Design pressure: (External) 1250 psig (nominal)

511 154

TYPICAL SATURATION CHARACTERISTICS (REACTOR AT 100% POWER)



# reuter Sstokes

18530 South Miles Parkway • Cleveland Ohio 44128 U.S.A. Phone (216) 475-3434