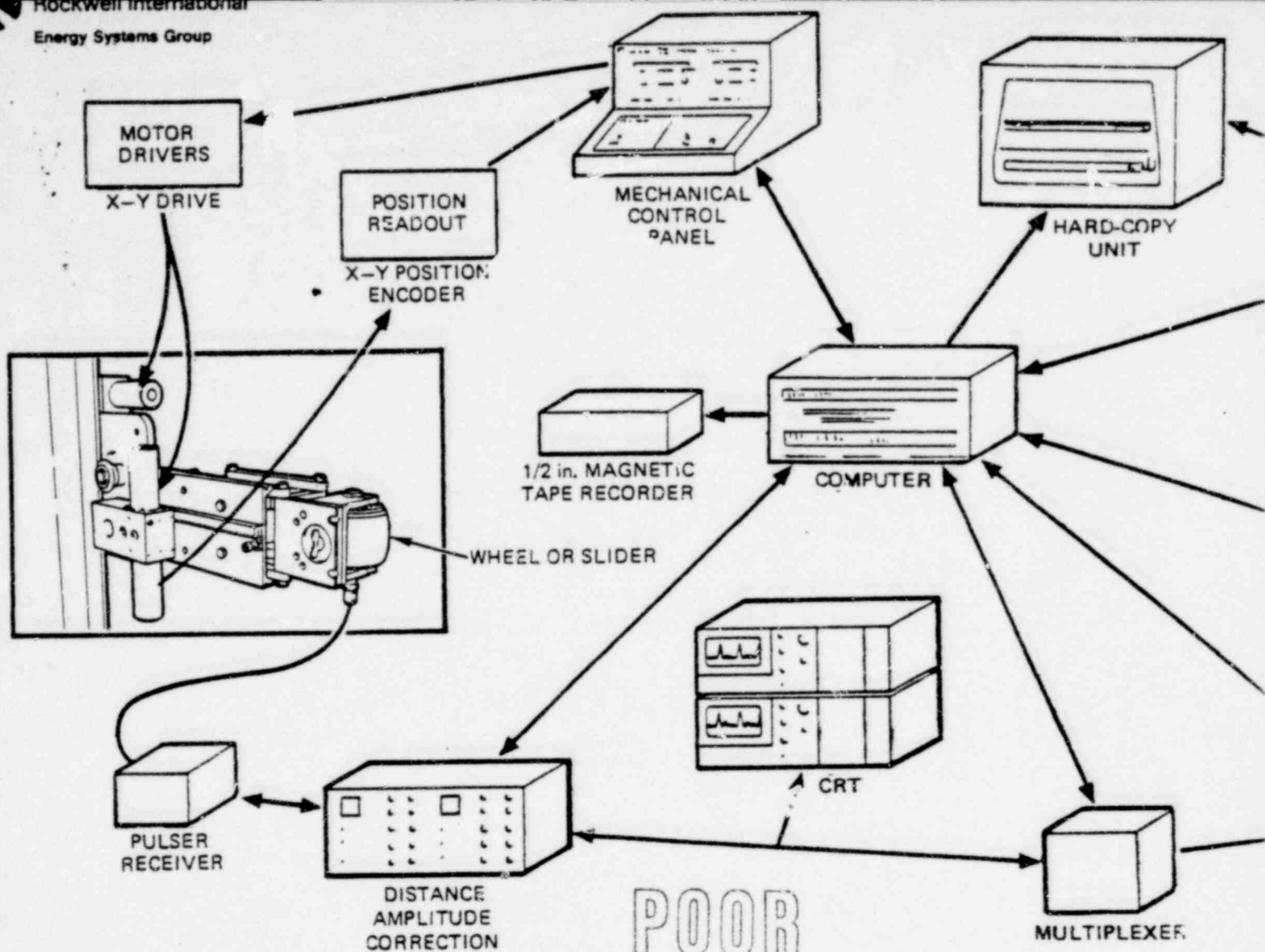


APPLICATION FOR LICENSE TO EXPORT NUCLEAR MATERIAL AND EQUIPMENT (See Instructions on Reverse)

1. APPLICANT'S USE		e. DATE OF APPLICATION August 17, 1979		d. APPLICANT'S REFERENCE		2. NRC USE		a. DOCKET NO. 11000769		b. LICENSE NO. XCOM0293		
3. APPLICANT'S NAME AND ADDRESS a. NAME Rockwell International Corporation - Energy Systems Group b. STREET ADDRESS 8900 De Soto Ave. (Attn.) Henry Kolin, Patent Counsel c. CITY Canoga Park STATE Calif. ZIP CODE 91304 d. TELEPHONE NUMBER (Area Code - Number - Extension) (213) 341-1000 Extension 2241						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material) Same as item 3 a. NAME 1579 AUG 17 PM 4 15 b. STREET ADDRESS EXPORT/IMPORT c. CITY INTERNAT'L SFGRDS STATE ZIP CODE						
5. FIRST SHIPMENT SCHEDULED		6. FINAL SHIPMENT SCHEDULED		7. APPLICANT'S CONTRACTUAL DELIVERY DATE		8. PROPOSED LICENSE EXPIRATION DATE		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known)				
April 1, 81				April 1, 1981		November 1, 1981		--				
10. ULTIMATE CONSIGNEE a. NAME Comision Nacional De Energia Atomica (CNEA) b. STREET ADDRESS Avenida Del Libertador 8250-1429 c. CITY - STATE - COUNTRY Buenos Aires, Argentina						11. ULTIMATE END USE (Include plant or facility name) The remote ultrasonic inspection of the welds and heat affected zones of the Atucha Power Plant 11a. EST. DATE OF FIRST USE April 1, 1982						
12. INTERMEDIATE CONSIGNEE a. NAME unknown b. STREET ADDRESS c. CITY - STATE - COUNTRY						13. INTERMEDIATE END USE -- 13a. EST. DATE OF FIRST USE						
14. INTERMEDIATE CONSIGNEE a. NAME unknown b. STREET ADDRESS c. CITY - STATE - COUNTRY						15. INTERMEDIATE END USE POOR ORIGINAL 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)				18. MAX. ELEMENT WEIGHT		19. MAX. WT. %		20. MAX. ISO E WT.		21. UNIT
		1 ultrasonic inspection control and data acquisition console 1 nozzle weld inspection device 1 hoist system 1 calibration stand 1 stud inspection device 1 communication system 1 weld inspection device 1 TV & remote monitor 1 pipe inspection device 1 spare parts				2,000 lbs. 80 lbs. 150 lbs. 100 lbs. 50 lbs. 3 lbs. 300 lbs. 55 lbs. 160 lbs. 200 lbs.				Value \$1,500,000		
22. COUNTRY OF ORIGIN - SOURCE MATERIAL				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known)				
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) See attached brochure, pub. no. 523-K-6 Rev. 8-78 965 036												
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 Ernest A. Lamont for L.W. Wheeler			b. TITLE Director, Contract Administration			

Ernest A. Lamont for L.W. Wheeler

7909190230



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the requirement...

ASME Code Section XI, "Rules for Inservice Inspection of Nuclear Reactor Coolant Systems," requires that predefined inspections of the nuclear pressure vessel, the nozzles, and some piping weld areas and heat-affected zones be inspected at periodic intervals throughout the life of the plant, after the baseline or preoperational inspection.

inservice inspection system...

The Rockwell computerized automated inspection system performs the ultrasonic inspection required by the ASME Section XI Code. The computerized control system directs the travel and location of the inspection heads. Computer control provides fast and precise data acquisition information, and its location, in digital form on magnetic tape, providing compact record storage available for real-time analysis and comparison with subsequent inspections.

system features & benefits....

◆ LOW COST INSPECTIONS

Made possible because the system can use as many as twelve transducers, all working simultaneously, to perform the inspection. These rapid inspections minimize equipment and manpower costs, and minimize plant downtime.

◆ HIGH QUALITY INSPECTIONS

A preset alarm level eliminates operator error. The inspection data is based on multiple interrogations and statistical analysis of a large population of return signals. Computerized data evaluation aids speed the interpretation of data.

◆ PERMANENT INSPECTION RECORDS

All of the inspection data is permanently stored in digital form on magnetic tape. The data consists of all return signals and their X, Y, & Z location. This permits return of the inspection heads to within 0.10 in. of any previously located point or flaw. A hard-copy unit allows an instant print of any data or display for the inspection report.

◆ MINIMUM PLANT INTERFERENCE

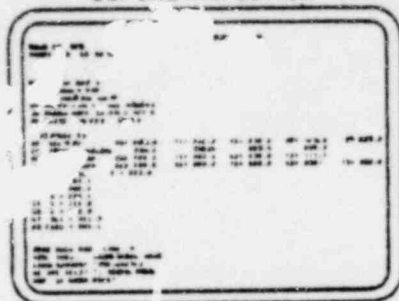
Special equipment permits location of inspection control console as far as 300 feet from the inspection heads . . . and permits inspection during arc welding or other construction or repair activities.

◆ DATA PRESENTATION

Computerized operation allows presentation of the inspection program to be used, the inspection progress and status, and the flaw configuration on the cathode ray tube screen or the hard-copy unit.

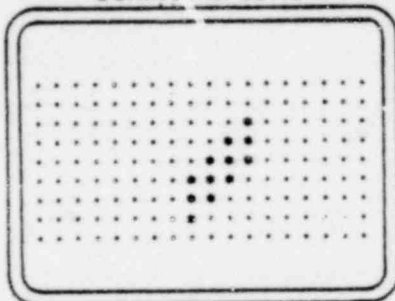
DISPLAY SCREEN

BEFORE INSPECTION



PROGRAM

DURING INSPECTION

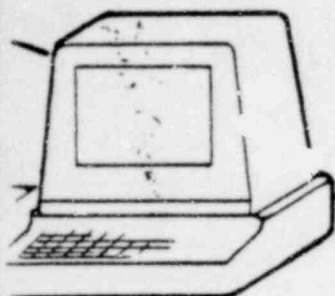


STATUS

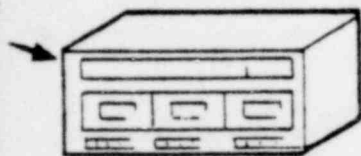
DURING INSPECTION



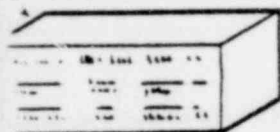
FLAW CONFIGURATION



GRAPHICAL DISPLAY



MAGNETIC TAPE CASSETTE UNIT



RANGE GATE ADC

POOR ORIGINAL

system operation....

The topography of the welds, the material characteristics and the inspection details are programmed into the inspection system computer. The inspection heads are calibrated, then placed on the internal or external inspection device, and the system is commanded to perform the inspection. Under command of the computer, the inspection heads transverse the predetermined inspection path, while the data acquisition system pulses each one of the ultrasonic transducers. The resulting data is monitored by the system, warning the operator when a flaw larger than a predetermined size is located. The complete inspection is recorded in digital form on magnetic tape.