

# TERRY CORPORATION

AMBERTON ROAD • WINDSOR, CONNECTICUT U.S.A.  
A SUBSIDIARY OF INGERSOLL-RAND

REPORT NO.

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## REPORT OF POTENTIAL SAFETY HAZARD, 10CFR21 (PART 21 OF TITLE 10 OF THE CODE OF FEDERAL REGULATION)

TO: DIR. OF ENG. D. R. Morrow FILE NO. F-38170 LF  
MGR.-NUCL. PROD. H. Sirois SER. NO. Numerous  
UTIL. MKT. MGR. K. Fahrbach TYPE GS & CCS & ZS Nuclear Tu  
VP-QUAL. ASSUR. R. Neeld REF. Telcon F.E. Welch  
SERVICE MGR. R. Theroux DATED 12-20-77

PREPARED BY R. Hebert DATE 12-21-77

PIECE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_ REV. \_\_\_\_\_

PART NAME Pressure retaining components. QUAN. \_\_\_\_\_

DESCRIPTION OF POTENTIAL SAFETY HAZARD OR NON-COMPLIANCE: \_\_\_\_\_  
Latest GE specification 21A9526 Rev. 2, para. 4.6.11 (copy attached),  
and previous revisions, require hydro testing of all pressure containing  
castings and fabrications. G.E. is now claiming that gland cases,  
leak-off connections and lube piping (feed side) all fall into the above  
definition and should be hydro tested.

ENGINEERING EVALUATION & RECOMMENDATION: Does not constitute a reportable  
safety hazard. All gland cases were steam pressure tested, and all feed  
lube pipes were oil pressure tested at Windsor during the mechanical run  
test.

All future machines should have the hydro test requirement for these  
components specified on the transmitter as it is not commercial practice  
to so do. (Continued on back side of page)

APPROVED BY DIR. OF ENG.: D.R. Morrow DATE: 1/5/78

THIS DEFECT OR NON-COMPLIANCE -  
\_\_\_\_\_ CONSTITUTES A SAFETY HAZARD AND REQUIRES THAT A REPORT BE PREPARED BY NAME:  
\_\_\_\_\_ DATE: \_\_\_\_\_

NO DOES NOT CONSTITUTE A SAFETY HAZARD AND DOES NOT REQUIRE ANY FURTHER REPORTING.

APPROVED BY/TITLE: M. J. McManis - President DATE: 1-5-78

RETURN TO DIRECTOR OF ENGINEERING: \_\_\_\_\_

EER: (Continued)

Alternatively, Terry should take exception to this specification and so notify the customer.

4.6.10.1 Major repairs in base materials such as plates, forgings, extruded pipes or castings are defined as follows:

- a. A repair which requires removal of material at a depth greater than twenty percent of the section thickness or to a depth of one inch whichever is less, or when the extent of the defect exceeds ten square inches;
- b. The repair of defects which are indicative of a fundamental materials problem.

4.6.10.2 Preparation for repairing all defects may proceed prior to notifying the Buyer's Quality Control Representative. As soon as it is apparent that the defect will terminate as a major defect as defined in Paragraph 4.6.10.1, and before repair welding can proceed, the Buyer's Quality Control Representative is to be notified. If the defect terminates as a minor defect, weld repair can proceed without notifying the Buyer's Quality Control Representative.

4.6.11 All pressure containing castings and fabrications shall be hydrotested to 1.5 times the design pressures. The hydrostatic test pressure shall be maintained for a minimum of 15 minutes for each inch of design minimum wall thickness, but for not less than 10 minutes prior to examination for leaks. The hydrostatic testing shall be conducted in accordance with ASME Boiler and Pressure Vessel Code, Section III, Article NC-6000, or the Seller's equivalent standard, to be approved by the Buyer.

4.6.12 The Seller shall conduct, and be fully responsible for the preceding inspections and tests necessary to prove turbines which satisfy the requirements of this specification. The inspection and tests shall be conducted in the presence of the Buyer's representative. The Buyer reserves the right to waive such representation.

4.6.13 The Seller shall originate and maintain a record system and a central file that provides positive traceability of all material (including weld rod for fabrication and repair) used in the turbine steam loop pressure boundary components, wheels and shaft, and their associated test and inspection records. This record system shall be in accordance with the ASME Boiler and Pressure Vessel Code, Section III, Article NA-4000, applicable Paragraph(s) defining quality assurance records. Pressure containing bolts, studs, nuts, and plugs, 1-inch and under nominal diameter, in the turbine steam loop, shall be identified in accordance with their material specification requirements. Certification of their materials and individual traceability shall not be required.

4.6.14 The Seller shall originate and maintain a system for control and identification of the materials noted in Paragraph 4.6.13. This system shall be in accordance with the ASME Boiler and Pressure Vessel Code, Section III, Article NA-4000, applicable Paragraph(s) defining identification and control of materials.

4.6.15 The status of the examinations and tests performed on materials defined in Paragraph 4.6.13 shall conform to the requirements of ASME Boiler and Pressure Vessel Code, Section III, Article NA-4000, applicable paragraph(s) defining examination or process status.

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