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WESTINGHOUSE ELECTRIC CORPORATION
ELECTRO-MECHANICAL DIVISION
CHESWICK, PENNSYLVANIA

MODEL 100 REACTOR COOLANT PUMP
CASING NOZZLE DESIGN LOADS

S.O. E923

MARCH 18, 1977

ENGINEERING MEMORANDUM NO. 5003

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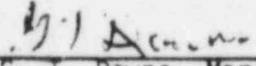
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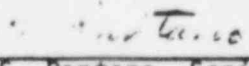
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ABSTRACT

This report evaluates the ability of the Model 100 pump casing and nozzles to resist the external pipe design loads as specified in the general equipment specification. This is done by comparing the calculated stresses which these loads impose on both the casing and nozzles, with the ASME Code, Section III allowable criteria.

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(a,c)

II. SUMMARY AND CONCLUSIONS

The Model 100 Pump casing and casing nozzles meet the external design loading requirements as specified in Section III of the ASME Code - Reference 4, including Appendix F to the Code - Reference 5.

The results and comparisons with the allowable criteria are summarized in the following Tables I and II for the suction nozzle loading, and Tables III and IV for the discharge nozzle loading.