



CALCULATIONAL SUMMARY SHEET (CSS)

DOCUMENT IDENTIFIER 86-1234820-01TITLE LOW TEMPERATURE OVERPRESSURE ANALYSES-SUMMARY REPORT

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TM STATEMENT: REVIEWER INDEPENDENCE

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PURPOSE AND SUMMARY OF RESULTS:

This document is a complete replacement of Revision 00.

Framatome Technologies Inc., performed the low temperature overpressure event analyses for the Rochester Gas and Electric (RGE) R.E.Ginna Nuclear Power Station, after the steam generators were replaced with BWI-designed generators. In this effort, a spectrum of LTOP events to bound all possible operational configurations is analyzed and the results compared to Appendix G limits and the RHR pressure limit.

The most limiting mass addition case is a case with one charging pump turned on when the primary system is at 60°F with one RC pump running. This case resulted in a peak reactor vessel pressure of 554.3 psia which is the Appendix G limit at this temperature.

The most limiting heat addition case is with the primary system at 60°F, with an initial pressure of 329.7 psia. One RC pump is turned on with the secondary system at a temperature of 50°F higher than the primary. The peak reactor vessel pressure in this transient is 551.3 psia which is below the Appendix G limit of 554.7

The limiting event for the RHR system occurs at 280°F, when two RHR pumps are running with a capacity of 2000 gpm total. In this heat addition case, the peak RHR system pressure reached is 663.7 psia compared with an allowable of 674.7 psia.

VENDOR'S DOCUMENT REVIEW

- 1 ☒ APPROVED - MANUFACTURING MAY PROCEED ⁸⁷
- 2 ☐ APPROVED - SUBMIT FINAL DOCUMENT - MANUFACTURING MAY PROCEED
- 3 ☐ APPROVED AS NOTED - MAKE CHANGES AND SUBMIT FINAL DOCUMENT - MANUFACTURING MAY PROCEED AS APPROVED
- 4 ☐ NOT APPROVED - CORRECT AND RESUBMIT
- 5 ☐ REVIEW NOT REQUIRED - MANUFACTURING MAY PROCEED

APPROVAL OF THIS DOCUMENT DOES NOT RELIEVE SUPPLIER FROM FULL COMPLIANCE WITH CONTRACT OR PURCHASE ORDER REQUIREMENTS

BY: [Signature] DATE: 6/10/97

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NY

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CODE / VERSION / REV
RELAP5/MOD2/20/0HP

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YES () NO (☒)

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