

**THE
B&W OWNERS GROUP**

Analysis Committee

RELAP5/MOD2 BENCHMARK

OF OTIS LEAK SIZE TEST

#2202AA

Babcock & Wilcox

a McDermott company

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by

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ABSTRACT

This benchmark of the RELAP5/MOD2 code using OTIS Test #2202AA is performed to demonstrate the capabilities of the RELAP5/MOD2 code to predict the phenomena characteristic of a small break loss of coolant transient. This objective was met. This report is produced as partial fulfillment of the B&W Owners Group commitment to the Integral System Test Program.

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5. REFERENCES

1. "RELAP5/MOD2 - An Advanced Computer Program for Light Water Reactor LOCA and Non-LOCA Transient Analysis," UPGD-TM-44, August 1984
2. B&W Document No. 32-1153989-00, MIST RELAP5/MOD2 Input Deck and Pretest Analyses, Babcock and Wilcox, Lynchburg, Virginia, August 1984.
3. B&W Document No. 38-1013102-00, GERDA Model with RELAP5, Babcock & Wilcox, Lynchburg, Virginia, August 1984.
4. B&W Document No. 31-RDD:84-4091-24-01:01, OTIS Loop Functional Specification, Babcock and Wilcox Co., Lynchburg, Va., 1984.
5. Babcock and Wilcox Document No. RDD:84:4091-30-01:01, Uncertainties for OTIS Instrumentation and Derived Calculations.
6. Babcock and Wilcox Document No. 32-1152300-00, Input Model and Results of the Benchmark of OTIS Test 2202AA, M. A. Rinckel.