

# OAK RIDGE NATIONAL LABORATORY

OPERATED BY  
UNION CARBIDE CORPORATION  
NUCLEAR DIVISION



POST OFFICE BOX Y  
OAK RIDGE, TENNESSEE 37830

September 7, 1983

Mr. Gunter Arndt  
Mechanical/Structural Engineering Branch  
Division of Engineering Technology  
NL 238  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Gunter:

This letter summarizes our progress on the Containment Leak Rate Testing Investigations (Fin. No. B0489) for the month of August 1983.

## Technical Highlights

A preliminary outline of the final report has been prepared and submitted to the NRC project manager for review. Comments from this review have been received relative to four aspects of the initial work statement since it was not apparent from the outline that these items would be covered in the report. Specific areas addressed included: (1) recommendations on reporting requirements, (2) local leak testing during plant operation, (3) continuous leak monitoring, and (4) contents of Appendix J which belonged in ANSI/ANS-56.8-1981 (or vice versa). Reporting requirements are to be discussed in Appendix A, and possibly briefly in Chapter VI. Local leak testing during plant operation and continuous monitoring will be discussed in Chapter IV under "Frequency." Comparisons of Appendix J and ANSI/ANS-56.8-1981 will be included in Chapter VI.

Approximately 65 percent of the draft report has been completed. Completion of the draft report is scheduled for the next reporting period.

## Expenditures

	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>
Expenditure (\$K)	7.2	8.9	7.8	8.9	9.2	9.4	7.5	8.7	8.2	9.2	10.0*
Cumulative (\$K)**	14.2	23.1	30.9	39.8	49.0	58.4	65.9	74.6	82.8	92.0	102.0

\*Estimated

\*\*Program Total

8506170589 850325  
PDR FOIA  
REYTB LAB5-143 PDR

FOIA-85-143

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Mr. Gunter Arndt

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September 7, 1983

Sincerely yours,

*Dan*

D. J. Naus

DJN:ege

Attachment

cc: J. R. Dougan

## PRELIMINARY CILRT OUTLINE

- I. Introduction
  - II. Existing Guidelines for Testing
    - A. Appendix J
    - B. BN-TOP-1
    - C. ANSI/ANS 56.8-1981
  - III. Type A Tests
    - A. Method
    - B. Pressure
    - C. Instrumentation
    - D. Duration
    - E. Frequency
    - F. Analysis Method
    - G. Verification Test
    - H. Acceptance Criteria
    - I. Summary
  - IV. Type B and C
    - A. Medium & Pressure
    - B. Temperature and Waiting Period
    - C. Frequency
    - D. Acceptance Criteria
    - E. Summary
  - V. Exemption Requests and Licensee Event Reports
    - A. Type A Test Exemption Requests
    - B. Type B & C Test Exemption Requests
    - C. Licensee Event Reports
    - D. Summary
  - VI. Proposed Appendix J Revision
    - A. Proposed Requirements
    - B. Conflicts with ANSI/ANS-56.8-1981
    - C. Resolution of Conflicts
  - VII. Conclusion
- Appendix A: Recommended Revisions to ANSI/ANS-56.8-1981