



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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SSINS #9126

SEP 1 1981

MEMORANDUM FOR: T. T. Martin, Director, Division of Engineering and Technical Inspection, Region I

FROM: R. L. Baer, Chief, Reactor Engineering Branch, Division of Resident and Regional Reactor Inspection, IE

SUBJECT: SEABROOK UNIT 1 (DN 50-443)
MULTIPLE CADWELD SPLICES IN CONTAINMENT PRIMARY SHIELD WALL

REFERENCES: (1) Memo from T. T. Martin to R. L. Baer, dated July 16, 1981
(2) Region I Inspection Report 50-443/80-12
(3) Region I Inspection Report 50-443/81-02
(4) Letter from United Engineers to Public Service of New Hampshire, dated March 26, 1981

Reference 1 requested a review of an unresolved inspection finding identified in references 2 and 3 and United Engineers and Constructors (UE&C) evaluation contained in reference 4.

The inspection finding identified 80 locations in the Containment Primary Shield Wall where multiple splice occurred within a bar development length on the same bar and on groups of bars.

This condition occurred due to a high reject rate on cadweld splice end void measurements. It is recognized that Section III, Division 2 code has not been violated by having multiple splices on the same bar. The condition of multiple splices occurs on all projects, however, the extent of this condition is somewhat unique. The effects on the behavior of the Containment during the Structural Integrity Test (SIT) are difficult to estimate although anticipated to be minimal.

The recommendation to identify a representative area and perform crack mapping according to Regulatory Guide 1.18 during the SIT is reasonable. One of the areas with multiple splices could be selected as one of the five areas to be mapped, thereby, satisfying both the requirement and the inspectors recommendation.

CONTACT: E. J. Gallagher, IE
49-24792

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PDR FOIA
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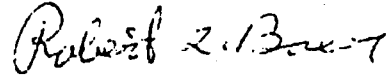
T. T. Martin

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Structural Engineering Branch (NRR) has reviewed the subject references and concurs that crack mapping one of the location would provide data to evaluate the condition and resolve the inspection finding.

If there are any questions regarding this review, please contact me.



Robert L. Baer, Chief
Reactor Engineering Branch
Division of Resident and
Regional Reactor Inspection, IE

cc: J. Sniezek, IE
P. Kakkad, IE
L. Tripp, RI
A. Varela, RI
D. Jeng, NRR
S. Shaukat, NRR
G. Arndt, RES