



METROPOLITAN EDISON COMPANY A DIVISION OF GENERAL PUBLIC UTILITIES CORPORATION

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December 29, 1972

United States Atomic Energy Commission
Directorate of Regulatory Operations
Region 1
970 Broad Street
Newark, New Jersey 07102

ATTENTION: Mr. J. P. O'Reilly, Director

SUBJECT: THREE MILE ISLAND NUCLEAR STATION UNIT 2
DOCKET NO. 50-320
CADWELD SPLICES AND CADWELD OPERATOR QUALIFICATIONS

REFERENCE: (A) AEC letter dated November 29, 1972,
E. M. Howard to J. G. Miller

This letter is in response to Reference (A) which cited Metropolitan Edison Company for non-conformance with commitments made in the Preliminary Safety Analysis Report (PSAR) and Appendix B to 10 CFR 50. The non-conforming items cited were that: (1) cadweld splices did not meet acceptance standards, and (2) a quality control procedure contained contradictory requirements for cadweld operator qualifications.

CADWELD SPLICES NOT MEETING ACCEPTANCE STANDARDS

With regard to the cadweld splices not meeting acceptance standards there were two cadweld splices in question which occurred in the hoop rebars at the personnel access hatch. The radius of the curvature of these rebars was such that the cadweld sleeve could not be installed without the rebar making contact with the inside diameter of the sleeve. These cadweld splices were rejectable because the quality control procedure required evidence of filler metal 360° around.

Although the two cadwelds have been accepted by a mechanical inspector, upon reinspection they were rejected in accordance with the requirements of quality control procedure for General Construction and Structural Concrete. The two cadwelds were subsequently removed and replaced.

The quality control mechanical inspectors were reinstructed on December 21, 1972 to inspect in strict accordance with the requirements of quality control procedure for General Construction and Structural Concrete.

In addition, many of the cadwelds previously accepted by the quality control inspector, who had originally accepted the rejectable cadweld splices,

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were reinspected. No unacceptable cadweld splices were discovered. This supports our conclusion that the incident was localized involving only the two cadweld splices.

The engineer's specification and the quality control procedure governing cadweld splicing have now been revised such that there is an acceptance criteria for a cadweld splice where the rebar comes in contact with the inner diameter of the sleeve. These are available for your review at the TMI site.

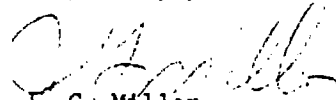
CONTRADICTIONARY REQUIREMENTS IN QUALITY CONTROL PROCEDURE FOR CADWELD OPERATOR QUALIFICATIONS

The cadweld operators qualify in accordance with the requirements of the quality control procedure for General Construction and Structural Concrete. However, the section which delineates the requirements for cadweld operator qualification contains a confusing paragraph which was intended to qualify the procedure and not the operators.

The section in the quality control procedure which discusses the requirements of cadweld operator qualifications will be reviewed and clarified by a change to the procedure.

These corrective measures will have been completed by January 15, 1973, and will be available for your review at the TMI site.

Very truly yours,



J. G. Miller
Vice President

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