

7/15/85

## QUADREX FINDING NO. 4.3.2.1(n) - ELECTRICAL/I&amp;C TECHNICAL ADEQUACY ASSESSMENT

DOCKETED  
USNRC

The following findings may have a serious impact on plant licensability or deserve licensing attention:

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\* \* \* \*

- (n) "It is planned that various types of isolation devices will be used. Actual devices are still under evaluation and qualification. There is no existing document that provides guidance to the designers on the circuit application of these various types (e.g., optical couplers vs. fuses vs. relays, etc.). It is our opinion that lack of such a document (TRD) could result in design errors and licensing problems (see Question E-14)."

OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

## BROWN &amp; ROOT RESPONSE

Brown & Root disagrees with the above finding.

START

\* As required by Regulatory Guide 1.75 and IEEE-383, the Brown & Root design of STP includes electrical and control circuit isolation devices in applicable locations. Electrical design drawings as presented to Quadrex symbolically depict the isolation devices in the circuits. Moreover, the specification to be used for procuring isolation devices was discussed with Quadrex during the review, and covers approximately 98% of the devices needed at STP. Brown & Root does not believe an additional document on isolation device application is necessary for the few remaining devices.

STOP

Brown & Root also notes that, in the assessment of Brown & Root's response to Question E-14, Quadrex states that Brown & Root is delinquent in procuring isolation devices relative to the construction schedule and issuance dates of the applicable industry standards. This statement is erroneous. First of all, final design and layout of the isolation devices is dependent upon the completion of electrical and control circuit design. Since the design of the control circuits is not yet completed, specification and procurement of isolation devices at this time would be premature. Further, procurement of isolation devices after completion of the circuit design will allow the isolation devices to be located and grouped more efficiently in space reserved for isolation cabinets. Finally, and most importantly, fully qualified isolation devices are available in the market with little lead time and with no impact on construction schedule.

Given the foregoing, it is evident that the above Quadrex finding is erroneous and will have no impact on plant licensability.



NUCLEAR REGULATORY COMMISSION

Docket No. SIN50-4980L Official Exh. No. CCANP#81

In the matter of \_\_\_\_\_

Self \_\_\_\_\_ IDENTIFIED ☒

Assistant \_\_\_\_\_ RECEIVED ☒

Intervenor \_\_\_\_\_ REJECTED

Cont'g Off'r \_\_\_\_\_

Contractor \_\_\_\_\_ DATE 7/15/85

Other \_\_\_\_\_ Witness

Recorder TATE