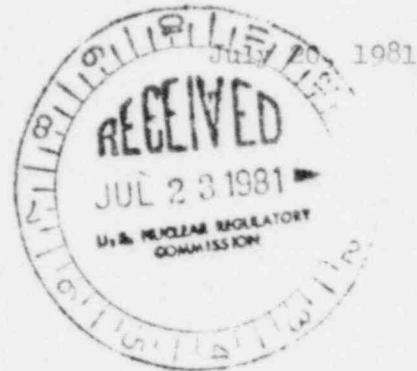




CHARLES CENTER • P. O. BOX 1475 • BALTIMORE, MARYLAND 21203

ARTHUR E. LUNDVALL, JR.  
VICE PRESIDENT  
SUPPLY



Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attn: Mr. Zoltan R. Rosztoczy, Chief  
Environmental Qualification Branch

Subject: Calvert Cliffs Nuclear Power Plant  
Units Nos. 1 & 2, Dockets Nos. 50-317 & 50-318  
NRC IE Bulletin 79-01B

References: (a) NRC IE Bulletin 79-01B and Supplements.  
(b) Letter to A. E. Lundvall, Jr. from R. E. Clark  
dated 5/28/81.

Gentlemen:

This letter is forwarded for information as requested at the licensee meetings held in Bethesda, Maryland on July 7 through July 10, 1981.

Full assessment of the qualification of IE equipment inside/outside containment subject to harsh environment will be completed by June, 1982. This assessment activity will include independent evaluation of the outstanding items addressed in our SER. This evaluation is being done by Wylie Laboratories and will be completed by December, 1981. As the evaluations are received we will implement the necessary specifications and purchase documents to replace any equipment found to have unresolvable qualification problems. A priority exists for assessment of equipment we believe may have qualification problems. Several examples are presented and discussed below:

- a) We have ordered transmitters from Barton and Rosemount which are presently undergoing qualification tests. The Barton program is expected to be completed by November, 1981 and the utility sponsored program for Rosemount by May, 1982. These will be installed during our Unit 1 Cycle 6 refueling outage in April, 1982 and Unit 2 Cycle 5 refueling outage in September, 1982. The completion dates for the programs as indicated are of course predicated upon no problems occurring during the test which could affect the schedules.
- b. We have committed to replace several solenoid valve assemblies and have recently received proposals from Valcor and Target Rock calling for delivery in 5 months and 12 months, respectively.

ACK  
7/1

Reasonable effort will be made to achieve delivery for installation during our next scheduled refueling outages. Each manufacturer in his proposal indicated that data will be provided for qualification by similarity with a model/type which has been previously tested to IEEE 323-1974 and IEEE 344-1975. We are still awaiting detailed information on materials from Target Rock so that qualification by similarity can be established for valves previously purchased in December, 1979.

- c) We have initiated a qualification program for Devar isolated transmitter and rack assembly. This program was initiated with Wyle Laboratories in November, 1980 with completion not anticipated until September, 1981.
- d) We are also in the process of developing a performance test and qualification test program for a prototype panel mounted indicator manufactured by Sigma with a down scale failure capability. This program was initiated in May with testing to be done by Wyle Laboratories. The scheduled completion date for this program is July, 1982.

We believe the above examples reasonably indicate the effort we have undertaken in the past and are presently undertaking to ensure full qualification of IE components for both hazardous as well as mild environments. These also provide an indication of the time required to complete the various qualification efforts. We will provide additional detail at the component level in our 90 day response to the SER. However, by keeping in mind the fact that the latest purchase documents will be issued in early 1982 directly resulting from the ongoing assessments and evaluations, it is probable that equipment deliveries as well as qualification reports may not be realized until 1983.

Ongoing reevaluation of our accident and post-accident environmental parameters as required in our SER results in higher parameters than those originally established at the time our licenses were issued. This does result in reevaluating and reassessing previously reviewed equipment to these higher values. For example Section 3.3 of the SER suggests the application of a saturation temperature of 296°F. This is a 20°F higher value than our previously derived peak temperature. In addition, we are evaluating the radiation source term methodology associated with post-LOCA recirculation fluid lines. The preliminary calculations have been completed resulting in integrated doses as high as  $4 \times 10^6$  Rads outside containment. The reassessment of the qualification of affected components subjected to the higher temperatures and radiation environment will be done in a manner consistent with DOR Guidelines and NUREG 0588. However, the indicated reevaluations and reassessments may result in replacing existing components with ones qualified to the higher parameters. Again we will be involved in a similar lead time activity as discussed earlier which makes the June, 1982 date unachievable.

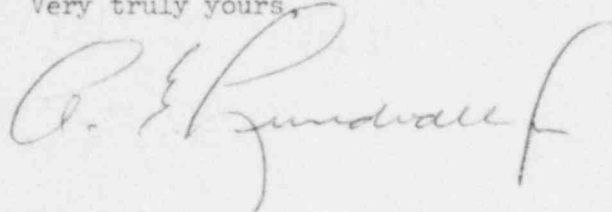
Major work activities requiring outages are normally scheduled coincident with planned refueling outages. We are asking you to give consideration to our refueling schedules when establishing compliance dates. For Unit 1 equipment which cannot be installed by the Cycle 6 refueling outage in April, 1982 we request deferment to the Cycle 7 outage.

July 20, 1981

Considering the completion of the qualification assessment, evaluation and purchase activity by early 1982, we request deferment for the installation of Unit 2 equipment to the Cycle 5 outage scheduled for September, 1982. For equipment which may not be available for installation during Cycle 5 we request deferment to Cycle 6. Calvert Cliffs is presently on 18 month refueling cycles.

Should you have any further questions in this matter, we would be pleased to discuss them with you.

Very truly yours,

A handwritten signature in dark ink, appearing to read "R. E. Architzel". The signature is fluid and cursive, with a large, sweeping "f" at the end.

cc: J. A. Biddison, Esquire  
G. F. Trowbridge, Esquire  
Messrs. E. L. Conner, Jr. - NRC  
R. E. Architzel - NRC Resident Inspector