



Commonwealth Edison

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August 25, 1988

Mr. T. E. Murley
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

Attn: Document Control Desk

Subject: Byron Station Units 1 and 2
Detailed Control Room Design Review (DCRDR)
NRC Docket Nos. 50-454 and 50-455

Reference: (a) November 26, 1986 K.A. Ainger letter to H.R. Denton

Dear Mr. Murley:

The Final Summary Report on the Detailed Control Room Design Review (DCRDR) Program Implementation was submitted for NRC review in reference (a). This final summary report documented the Byron and Braidwood DCRDR commitments as Commonwealth Edison Company's response to NUREG 0737 Supplement 1.

In reference (a), the schedule for implementation of the DCRDR items was provided. Of the items scheduled to be completed by startup following the Byron Unit 1 second refueling outage, it has been determined that additional time is required to complete five of the items. The specific Human Engineering Discrepancies (HEDs) and the justification for the schedule extensions are presented below:

- (1) HED Item No. 301 - This item requires thumb control switches to be modified to ease the mounting of out-of-service (OOS) cards and ensure that the strings of these cards do not slip from the switches. Commonwealth Edison has pursued several solutions with no acceptable resolution. A modification of the thumb switches by drilling a hole to attach the OOS cards was considered. This, however, would require individually dismantling the numerous switches at the Station which did not appear to be viable. Also, attaching a variety of hooks at different locations on the switch was considered. This solution appears to be cumbersome and unusable. We are continuing to pursue a resolution

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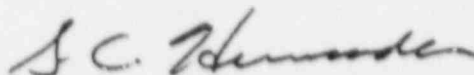
that will have minimal impact on installation and operation but will effectively attach the OOS cards. Therefore, we request an extension until June 30, 1989 to determine the most viable solution. We believe this extension will not impact plant operation because the OOS cards can be affixed to the switches with tape or another means until a permanent solution is implemented.

- (2) HED Item No. 253 - This item involves the replacement of incandescent indicating lights with an LED type that has a longer life expectancy. LED's have been obtained from several vendors but at the present time, no suitable replacement parts have been identified. The intensity of the LEDs which have been evaluated is less than adequate. Additional samples are being obtained to undergo testing and evaluation for suitability for this application. Based on current time estimates, this item will not be completed prior to startup following the Byron Unit 1 second refueling outage. Therefore, an extension until June 30, 1989 is requested. We believe this extension is acceptable since the existing indicating lights will still be operable to provide the control room operators with indication of component and system status. Until an LED is selected, the incandescent lights may have to be replaced more frequently. However, even though this is an inconvenience, there will be no detracting from safe plant operation.
- (3) HED Item No. 342 - This item involves replacing the cited recorder paper with paper that matches the recorder scale. The chart paper required to satisfy this commitment is not currently manufactured by any of the vendors contacted and must be specially ordered. The paper has been ordered but the projected schedule shows a December 1988 delivery, which exceeds the current implementation schedule. To allow for delivery of the recorder paper and to address any unforeseen circumstances, an extension until June 30, 1989 is requested to complete this item. Byron Unit 1 has operated several years with the current paper being used and the operators are familiar with it. This extension should not affect continued operation.

- (4) HED Item No. 442 - This item requires that some method be established for the control room PA system to override the other PA systems. A "test" solution to deal with this problem is being developed. The results of the implementation of the "test" solution is expected by 1/1/89. From that, the final solution will be established. In the interim, in the unlikely event that an emergency should occur while a page is in process, the control room operators may have to wait 5-10 seconds of a normal page for the line to clear. The operators can then request that the PA system be kept clear for further instructions or until the emergency passes. This will provide adequate interim measures until the permanent measures are put into place. Therefore, an extension until March 31, 1990 is requested for completion of this item.
- (5) HED Item Nos. 503 and 504 - These items require valve CV121 and the positive displacement pump speed control on the remote shutdown panel (PM05J) to be relabeled to accurately reflect remote and local locations. These control labels must be specially ordered. To order the labels, the coverplate needs to be classified and a "Stores Item Number" must be assigned. We are requesting delivery to permit installation prior to startup following Byron Unit 1, second refueling outage. However, if the part is not received in time, we intend to make temporary control labels onsite and affix them until the replacement part is received from the vendor. We believe this will be an adequate solution in the interim for proper labeling. In addition, this labeling is located on the remote shutdown panel which is not routinely used. We intend to have the control labels from the vendor installed by June 30, 1989.

All other items are expected to be completed as previously indicated in reference (a). This is being submitted for NRC review and acceptance. Please address any questions concerning this matter to this office.

Very truly yours,



S. C. Hunsader
Nuclear Licensing Administrator

/klj
cc: L. Olshan (NRR)
W. Forney (RIII)
Byron Resident Inspector
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