

Duquesne Light Company

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July 9, 1990

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Reference: Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
Detailed Control Room Design Review
Response to NRC Safety Evaluation

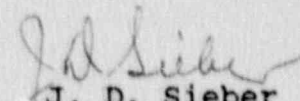
Gentlemen:

This letter is in response to the NRC's letter dated May 31, 1990, which provided the NRC Staff's conclusion that the Detailed Control Room Design Review (DCRDR) requirements as specified in Supplement 1 to NUREG-0737 are met for the Beaver Valley Power Station Unit No. 1 (BVPS-1). The NRC's Safety Evaluation related to the BVPS-1 DCRDR was enclosed with the letter.

As requested in the NRC's letter, Duquesne Light Company is informing the Commission that all DCRDR corrective actions have been implemented and the modifications have been determined to be operational prior to the startup following the seventh BVPS-1 refueling outage. As also requested, the attachment to this letter provides the implementation dates for corrective actions identified as a result of the DCRDR. The attachment addresses the Human Engineering Discrepancies (HED's) for which the recommended resolutions were not implemented at the time of the DCRDR Second Supplemental Summary Report dated May 4, 1989.

If you have any questions in this regard, please contact my office.

Very truly yours,


J. D. Sieber
Vice President
Nuclear Group

Attachment

cc: Mr. J. Beall, Sr. Resident Inspector
Mr. T. T. Martin, NRC Region I Administrator
Mr. A. DeAgazio, Project Manager
INPO Records Center

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ATTACHMENT

BVPS-1 DCRDR Implementation of HED Corrective Actions

Tables 4.2 and 5.1 of the DCRDR Second Supplemental Summary Report included the HED's for which the recommended corrective actions had not been implemented. Subsequently, corrective actions for these HED's were implemented and the modifications determined operational prior to the startup following the seventh BVPS-1 refueling outage.

The implementation dates for the corrective actions are listed below in Table 1. The list is annotated to provide additional HED information and variations to the recommended corrective actions. The variations do not significantly affect the intended human factors improvements of the original recommended actions. The corrective actions for the HED's listed in Table 1 without notation were implemented according to the recommendations in Tables 4.2 and 5.1 of the Second Supplemental Summary Report.

Therefore, this Attachment is an addendum to and provides closure for the open issues in the Second Supplemental Summary Report and, ultimately of the BVPS-1 DCRDR.

TABLE 1 (1)

HED NO.	IMPLEMENTED	HED NO.	IMPLEMENTED
51	12/08/89	52	12/08/89
63	12/08/89	68	08/10/89
69	08/10/89	76	11/17/89
85	11/17/89	155	11/13/89
162	11/13/89 (2)	263	11/17/89
266	11/17/89	278	11/17/89
281	08/19/89	300	08/10/89
303	08/10/89	344	08/10/89
362	12/15/89	372	12/15/89 (3)
405	12/08/89 (4)	437	12/12/89
1MCR-0001	12/08/89 (5)	1MCR-0002	12/08/89 (5)
1MCR-0004	12/08/89 (5)	1MCR-0005	08/10/89
1MCR-0008	08/10/89	1MCR-0011	12/08/89
1MCR-0015	12/08/89 (6)	1MCR-0016	12/08/89 (6)
1MCR-0017	12/08/89	1MCR-0018	12/08/89
1MCR-0101	12/08/89	1MCR-0202	12/08/89
1MCR-0203	08/10/89	1MCR-0204	12/08/89
1MCR-0207	12/08/89 (7)	1MCR-5605	11/16/89
1MCR-5606	11/16/89		

ATTACHMENT

- (1) The implementation date for HED No. 157 (not listed in Table 1) is 12/20/88 and its status is closed. The correct date and status were inadvertently omitted from Table 4.1 of the Second Supplemental Summary Report
- (2) The discrepancy for HED-162 was that the scale units for flow indicator, FI-1CH-122A, were inconsistent with the needs of the operator as identified in the EOP's. Because the flow indicator has a square root scale, 15 gpm is difficult to determine on the low end of the scale. This value was required to be verified in EOP, ES-0.1, step 4B(3)-RNO. The recommended resolution was to revise the EOP step to denote that 15 gpm is the first-increment/minimum-flow on the scale. It is noted that because of subsequent EOP revisions, the step is now designated as 5B(6)-RNO and the step does not require a specific minimum flow to be read. The description of this step is provided below.

The overall purpose of Step 5 is to restore pressurizer water level to a specified level. To help accomplish this, the substeps within Step 5 establish and adjust charging flow based on the pressurizer water level response. To establish or adjust charging flow for the above conditions, it is not necessary to specify a minimum flow in the LOP substeps. Therefore, with the revision to the EOP's, the flow indicator scale is consistent with the needs of the operator.

- (3) The correction of associated labeling was not needed because the control functions addressed by this HED have been removed from the boards.
- (4) Upon further review a more operationally accurate label has been recommended and implemented to differentiate between "Containment Sump" and the "Recirculation Spray Sump". Guideline 6.6.3.2, Word Selection for Labels, has therefore been complied with.
- (5) The relocation of the copy machine was considered as recommended by the resolution to this HED. However, the existing location was determined to be preferable because of its accessibility to the operators, availability of suitable power, and the blockage of the copy machine noise to the control area by other control room furnishings. With the implementation of other noise reduction corrective actions, this resolution is considered acceptable. It is noted that traffic through the control room has been reduced by the addition of an operations support facility. This also has reduced noise in the control room.
- (6) The control room was completely re-lamped with special "reduced glare/reduced lumens, full visible spectrum" lights. Subsequent testing has shown that all areas are less than or approximate to the threshold value of 100 ft-candles while reducing glare.
- (7) Operations personnel use VHF transmission for which procedures in Operating Manual Chapter 40 are provided in the control room. Therefore, 1MCR-0207, referring to UHF transmission, is a non-HED.