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 FACIL: 50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au 05000438
 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439
 AUTH. NAME AUTHOR AFFILIATION
 MILLS, L.M. Tennessee Valley Authority
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. Licensing Branch 4

SUBJECT: Informs that util will perform preliminary design analysis of facilities main control room & remote shutdown panels to identify significant human factors & instrumentation problems before fuel load.

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	NRC PDR 02	1 1	NSIC 05	1 1
	NTIS	1 1		

MAH

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

June 11, 1982

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-438
Tennessee Valley Authority) 50-439

In response to your letter to H. G. Parris dated March 26, 1982 and as defined by item 1.D.1 of NUREG-0737, TVA will perform a Preliminary Design Analysis (PDA) of the Bellefonte (BLN) main control room and the remote shutdown panels to identify significant human factors and instrumentation problems before fuel load. Once the PDA has been completed, the human engineering discrepancies, along with a schedule for correcting those discrepancies, will be submitted to you. In addition, a detailed control room design review (DCRDR) will be performed for BLN to supplement the PDA. This work will be integrated along with action to be taken on other related NUREG-0737 items (i.e., I.D.2, III.A.1.2, etc.).

Your letter also requested the estimated percentage of construction completion and the scheduled date for completing 14 items. Enclosed is the information requested for each item. In order for us to schedule our submittal of data, photographs, and the results of our PDA, please inform us of when you intend to schedule the BLN site visit.

If you have any questions concerning this matter, please get in touch with D. L. Terrill at FTS 858-2680.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Sworn to and subscribed before me
this 11th day of June, 1982

Paulette H. White
Notary Public
My Commission Expires 9-5-84

Enclosure
cc: See page 2

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PDR ADCK 05000438
A PDR

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Director of Nuclear Reactor Regulation

June 11, 1982

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

ENCLOSURE

BLNP CONTROL ROOM REVIEW

	<u>Estimated Degree of Completion to Date</u>	<u>Planned Completion</u>
1. Overall control room construction and checkout of Engineered Safety Features (ESF) system controls and displays.	60%	12-1-83
2. All systems, including ESF systems, turned over to the operating staff.	0	1-1-84
3. Normal and emergency lighting systems operational.	80%	7-31-83
4. Air conditioning and ventilation systems operational.	90%	7-31-83
5. Installation and powered operation of control boards and display panels.	70%	12-1-83
6. Emergency Operating Procedures (EOPs) will be sufficiently complete to permit a human factors evaluation using trained operators.	0	1-1-84
7. Applicant will have available, as a minimum, three qualified operators to assist NRC during the CRDR.	-	Availability of licensed operators will be enhanced as fuel loading nears.
8. Annunciator systems will be operational to permit evaluation of sequences of operations, readability of alarm windows, and measurement of all individual alarm sound levels.	60%	12-1-82
9. Remote shutdown panel will be available for human factors reviews.	80%	12-1-83
10. Incore thermocouple displays and subcooling monitor displays will be available for NRC review in the control room.	0	1-1-84

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|--|------|---------|
| 11. A report of the PDA for the BLN main control room and the remote shutdown panels will be submitted to the NRC. | 0 | 5-1-83 |
| 12. Control room layout and control panel drawings will be included with PDA report (item 11 above). | 90% | 5-1-83 |
| 13. Process computer all peripherals is operational and available for human factors review. | 100% | - |
| The Status, Environmental, and Alarm Monitoring Computer System with CRT displays in the control room. | 40% | 2-1-83 |
| Technical Support Center (safety parameter display system, bypassed and inoperable status indication). | 0 | 7-31-84 |
| 14. Operator workspace and environment will be similar to conditions. | 90% | 7-31-83 |