Southern California Edison Company

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M. O. MEDFORD MANAGER, NUCLEAR LICENSING

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December 28, 1984

Director, Office of Nuclear Reactor Regulation Attention: Mr. J. A. Zwolinski, Chief Operating Reactors Branch No. 5 Division of Licensing U. S. Nuclear Regulatory Commission Washington, D.C. 20555

Gentlemen:

- Subject: Docket No. 50-206 Performance Test for MOV-850C Uninterruptable Power Supply (UPS) San Onofre Nuclear Generating Station Unit 1
- References: (1) Letter from K. P. Baskin, SCE to D. M. Crutchfield, NRC, dated August 26, 1983
 - (2) Letter from M. O. Medford, SCE to D. M. Crutchfield, NRC, dated July 27, 1984

Reference 1 forwarded the results of the sixty month battery performance tests for Battery Banks 1 and 2 and the UPS. Battery Banks 1 and 2 exhibited capacities of 100% while the UPS battery bank exhibited a capacity of 84%. Based on the existing Technical Specification acceptance criterion of 80% minimum capacity, all three battery banks were determined to have acceptable capacities. As explained in Reference 1, the UPS battery bank test results indicated a capacity of less than full capacity, due to a temporary charger configuration being used at the time of testing.

Your letter of March 9, 1984, indicated the battery bank test results had been evaluated, and due to the 84% capacity of the UPS an annual performance test is necessary in order to conform to IEEE-450, Sec. 5.2(3). Reference 2 responded to this position and provided further justification for the acceptability of the UPS battery bank. As indicated in Reference 2, information transmitted by our August 26, 1983 letter was not intended to imply that the temporary charging configuration would maintain the battery bank in the same charged state as the normal charger. To demonstrate this

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position, a service test was performed with the normal charging system utilizing IEEE-450 acceptance criteria. During this test the UPS battery bank exhibited a capacity of 100%. Reference 2 further indicated that a performance discharge test would be conducted in accordance with IEEE-450 methods, and we would advise you of the results.

The purpose of this letter is to inform you that a performance discharge test (with the normal charging configuration) has been completed for the UPS battery bank. The enclosed test results establish that the UPS has an acceptable capacity based on the current Technical Specification acceptance criteria and IEEE-450 acceptance criteria. During the performance discharge test, the UPS battery bank for safety injection valve MOV-850C exhibited a capacity of 100%. In accordance with IEEE-450, an equalizing charge was not applied to the UPS within the seven days prior to the test. Also, checks of battery connections were not performed prior to the test. Accordingly, the performance discharge test conformed to all requirements of IEEE-450 pertaining to such tests. Based on the acceptable test methods, and acceptable test results the UPS battery bank does not require annual performance testing. Future testing will be conducted in accordance with normal test frequencies as outlined in the Technical Specifications.

If you have any questions or desire additional information, please let me know.

Very truly yours,

m. O. medford

Enclosure

cc: F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2 and 3)

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MAINTENANCE PROCEDURE SO1-I-2.8 REVISION 2 PAGE 1 OF 2 ATTACHMENT 9.4

MAINTENANCE DATA RECORD FORM REFUELING INTERVAL BATTERY PERFORMANCE TEST

CDM File+No. <u>CJ20CC-008-FE</u> Battery Bank No. <u>U. P.S.</u> M.O. No. <u>8408-3106</u>									
Pre	Prerequisites Met								
Ste	p <u>No.</u>	Data Description	Data Values	Acceptance Criteria	Recorder/Verifier Signature/Date				
6.1	.1	Initial Average Battery T em perature	_7[_	N/A	M. Seace 10/7/54				
(²) 6.1	.3.2.2	Rated Load Amperage (LAu)	62	per Att. 9.2	M. Seace 110/7/84				
6.1	. 5	Battery Terminal Voltage at Start	130,8	≥125 VDC	M. Seace 110/7/84				
6.1	6.1	Calculated-Load Amperage (LAc)	39.9	N/A	M. Leace 110/784				
6.1	. 6. 5	Battery Performance Test Start Time	2:15PM	N/A	M. Seace 10/7/84				
- 6.1	7.2	Performance Test Termination Da	<u>ata</u> :						
	.2.1	Time of Completion	5:15	N/A	M. Seace 110/7/8;				
-	.2.2	Low individual cell voltage cell no. <u>60</u>	1.79	≥1.68 VDC	M. Seace In/1/44				
	. 2. 3	Battery Terminal Voltage	109.9	2105 VDC	M. Leace 1				
	.2.4	Test Stopped (manually or automatically	Mari.	N/A	<u>M. Leace 110/7/8-1</u>				
	. 2. 5	Total Elapsed Time to Final Voltage	180 plu	¹ per Att. 9.2	<u>M. Seace 1197</u> 87				
	.2.6	Battery Cells Connected at Termination of Test	40	≥59	M. Jeace 1147/84				
6.]	1.7.4	Calculated Battery Capacity	100%	≥80%	M. Sence 11/2/84				
6.1	1.8	Connections established in Step 6.1.1 have been returned to Pre-Test Configuration		N/A	M. Seace 110/2/84				
6.3	3.5	Restoration and Post-Maintenanc satisfactorily completed.	:e Checks,	, Section 6.3	Signature Date				

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MAINTENANCE PROCEDURE SO1-I-2.8 REVISION 2 PAGE 2 OF 2 ATTACHMENT 9.4 •

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	Test Equipment	SCE No.	Calibration Due Date
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-	Flicks	M1 - 3187	3/13/85
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value observed during the previous test.	2 1.200 and has not decreased >0.02 from th	The corrected specific gravity of each cell	

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3 EACH Cell Voltace 22.17 volts and has not de-creased vo.38 volts from original acceptance test value

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