

*Southern California Edison Company*

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August 1, 1979

Director of Nuclear Reactor Regulation  
Attention: D. L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Gentlemen:

Subject: Docket No. 50-206  
Systematic Evaluation Program  
San Onofre Nuclear Generating Station  
Unit 1

By your letter dated June 18, 1979 you requested additional information regarding SEP Topic VIII-3.B, D.C. Power System Bus Voltage Monitoring and Annunciation. At San Onofre Unit 1 there are two DC Supply Systems each consisting of a 125 V DC Bus and 2 battery chargers. For monitoring, each battery has a DC volt meter and ammeter and each charger has a DC volt meter and ammeter and an AC ammeter. A listing of the annunciators for the 125V DC systems is provided in the enclosed table.

In addition to the 125V DC System there is an Uninterruptible Power System (UPS) for MOV 850C, one of three safety injection valves. The UPS consists of a battery charger, battery and an inverter. The system has its own voltmeter and ammeter and a single annunciator which notifies the operator the system has failed. (See drawing 455516)

All drawings referred to were provided to you by letter dated March 14, 1979. If you have any questions regarding this information please let me know.

Very truly yours,

*J. G. Haynes*  
J. G. Haynes,  
Chief of Nuclear Engineering

Enclosures

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125V DC SYSTEM

<u>Function</u>	<u>Annunciator/ Window No.*</u>	<u>Elementary Diag.</u>
DC Bus 1 Low Volt.	DG. 1 Ann./#24	51498G1
DC Bus 2 Low Volt.	DG. 2 Ann./#24	5149803
Battery Charger Failure (A/B)	DG. 1 Ann./#34	5151358
Battery Charger Failure (C/D)	DG. 2 Ann./#34	5151359
DC Bus 1 Ground	DG. 1 Ann./#44	5151358
DC Bus 2 Ground	DG. 2 Ann./#44	5151359
480 V Swgr #3 125 VDC Under Voltage	DG. 1 Ann./#53	5151358
480 V Swgr #3 125 VDC Under Voltage	DG. 2 Ann./#53	5151359
DC Bus 1 DC ACB Trip and/or Low Volt.	DG. 1 Ann./#54	5151358
DC Bus 2 DC ACB Trip and/or Low Volt.	DG. 2 Ann./#54	5151359
4160 V Swgr DC Contl Low Volt.	DG. 1 Ann./#35	5149801
4160 V Swgr DC Contl Low Volt.	DG. 2 Ann./#35	5149803

\* See drawing 5149185

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