

TOPIC: VIII-3.B, DC POWER SYSTEM BUS VOLTAGE MONITORING AND ANNUNCIATIONI. INTRODUCTION

To assure the design adequacy of the dc power system battery and bus voltage monitoring and annunciation schemes such that the operator can (1) prevent the loss of an emergency dc bus; or (2) take timely corrective action in the event of loss of an emergency dc bus, we reviewed the dc power system battery, battery charger, and bus voltage monitoring and annunciation design with respect to dc power system operability status indication to the operator.

II. REVIEW CRITERIA

The review criteria are presented in Section 2 of EG&G Report 1341 F, "DC Power System Bus Voltage Monitoring and Annunciation."

III. RELATED SAFETY TOPICS AND INTERFACES

None

IV. REVIEW GUIDELINES

None

V. EVALUATION

As noted in EG&G Report 1341 F, the Oyster Creek control room has no indication of battery current, battery charger current, or breaker/fuse status. Therefore, the Oyster Creek dc power system monitoring is not in compliance with current licensing criteria.

VI. CONCLUSION

The staff proposes that as a minimum, the following indications and alarms of the Class 1E dc power system(s) status shall be provided in the control room.

- Battery current (ammeter-charge/discharge)
- Battery charger output current (ammeter)
- DC bus voltage (voltmeter)
- DC bus ground alarm (for ungrounded system)
- Battery breaker(s) or fuse(s) open alarm
- Battery charger output breaker(s) or fuse(s) open alarm

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