

MAY 24 1984

MEMORANDUM FOR: Chairman Palladino
 Commissioner Gilinsky
 Commissioner Roberts
 Commissioner Asselstine
 Commissioner Bernthal

FROM: William J. Dircks
 Executive Director for Operations

SUBJECT: GRAND GULF ELECTRICAL POWER SUPPLIES

In a memorandum dated May 18, 1984, Commissioner Gilinsky requested information concerning whether the electrical supply systems at Grand Gulf meet General Design Criterion 17. Following the Commission's guidance in the Shoreham proceeding, CLI-84-8 (May 16, 1984), the staff has concluded, on the basis of the problems associated with TDI diesel engines, that the onsite electrical supply systems at Grand Gulf do not meet GDC 17. Accordingly, Mississippi Power and Light had a meeting with staff on May 18, 1984 and was directed to submit a request for an exemption to GDC 17 for operation at power levels up to 5% full power, or at any higher power level it thought could be justified under Commission Shoreham decision of May 16, 1984. The Company responded that such a request would be submitted in about one week. The staff has had concerns about the reliability of the TDI diesel engines for some time, but has not taken action to suspend low-power operation at Grand Gulf because our safety evaluation has shown that the risk of such low-power operation is exceptionally small, and that the risk is not significantly increased by the total loss of the TDI diesel.

The current onsite power supply system at Grand Gulf in addition to two TDI diesels includes one EMD diesel dedicated to the high pressure core spray system and three gas turbines capable of producing a total of 6200 KW. The offsite power supply system consists of two 500 KV lines and one 115 KV line.

Prior to supporting plant operation above 5% of full power, the staff will require the TDI diesel generator issue to be appropriately addressed.

(Signed) William J. Dircks

William J. Dircks
 Executive Director for Operations

50-416
 50-417

cc: SECY
 OPE
 OGC

Contact:	DL/LB#4*	DL/LB#4*	DL/AD/L*	OELD*	DIR/DL*	DIR/NRR&
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49-28358	5/22/84	5/22/84	5/22/84	5/22/84	5/22/84	5/22/84

NRR/DSI* EDO (REVISED IN EDO PER E. CASE 5/23/84)
 LRubenstein WJDircks *SEE PREVIOUS CONCURRENCE SHEET
 5/22/84 5/24/84



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 WASHINGTON, D. C. 20555

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The current onsite power supply system at Grand Gulf in addition to two TDI diesels includes one EMD diesel dedicated to the high pressure core spray system and three gas turbines capable of producing a total of 6200 KW. The offsite power supply system consists of two 500 KV lines and one 115 KV line.

Prior to supporting plant operation above 5% of full power, the staff will require the TDI diesel generator issue to be appropriately addressed.

William J. Dircks
 Executive Director for Operations

cc: SECY
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Contact:
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 5/22/84

DL:LB#4
 EAdensam
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DL:MD/L
 TNovak
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FROM: Commissioner Gllinsky	ACTION CONTROL	DATES	CONTROL NO. 14439
	COMPL DEADLINE	5/23/84	DATE OF DOCUMENT 5/18/84
TO: Dircks	INTERIM REPLY		PREPARE FOR SIGNATURE OF:
	FINAL REPLY	<i>S/Dircks</i>	<input type="checkbox"/> CHAIRMAN
	FILE LOCATION	<i>5/24/84</i>	<input checked="" type="checkbox"/> EXECUTIVE DIRECTOR OTHER:

DESCRIPTION <input type="checkbox"/> LETTER <input checked="" type="checkbox"/> MEMO <input type="checkbox"/> REPORT <input type="checkbox"/> OTHER	SPECIAL INSTRUCTIONS OR REMARKS	
Request to know whether the electrical power supply systems at Grand Gulf meet General Design Criterion 17	<u>PRIORITY</u>	
ASSIGNED TO	DATE	INFORMATION ROUTING
Denton, NRR <i>G. Schmitt / S. Reusch</i>	5/21/84 <i>5/24/84</i>	Dircks Roe Rehm Stello O'Reilly Cunningham

NRC FORM 232
(6-80)

EXECUTIVE DIRECTOR FOR OPERATIONS
PRINCIPAL CORRESPONDENCE CONTROL