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 Office of Nuclear Reactor Regulation, Director

SUBJECT: Responds to NRC 810720 ltr requesting info on Unresolved
 Safety Issue A-44 re diesel generator operating experience.
 Completed questionnaire encl.

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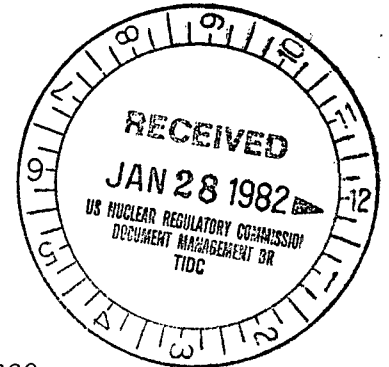
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January 21, 1982

Director
Office of Nuclear Reactor Regulation
Attn: Document Control Desk
U S Nuclear Regulatory Commission
Washington, DC 20555

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22



Questionnaire of Diesel Generator Operating Experience

Attached is our response to Mr T A Ippolito's letter dated July 20, 1981 concerning a request for information on Unresolved Safety Issue A-44. Our letter dated September 2, 1981 identified the reasons for the delay in submitting this response. Please call us if you have any questions concerning this response.

L O Mayer, PE
Manager of Nuclear Support Services

LOM/TMP/jh

Attachment

cc Director IE-III
NRC Resident Inspector
NRR Project Manager
G Charnoff

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Diesel Generator Operations Data Calendar Year 1976

Reason for DG Operation, & Scheduled Duration of Run	DG No.	Number of Starts	Number of Failures	Percent Loading of DG (KW)	Duration of Run Before Stop For Each DG Failure	Identification of Failure (Refer to attached LERs or Table 3)
Tech. Spec Req'd Test						
Monthly Surveillance (1 Hour) (1 Start/Test)	11	12	1*	100		LER 2
	12	12	0	100		*No. 2 start system failed, No. 1 start system operable, therefore diesel was operable.
Misc. Tech. Spec. Required Tests (1 Hour) (1 Start/Test)	11	1	0	100		
	12	3	0	100		
DG Actual Demand Starts not for Testing						
Demand Start (1 Hour)	11		0	100		
	12		0	100		
Miscellaneous Tests (Specify Type)						
Test 0187, Start and Load Test (1 Hour) (1 Start/Test)	11	4	0	100		
Verify Repairs	12	2	0	100		

TABLE 1

Diesel Generator Operations Data Calendar Year 1977

Reason for DG Operation, & Scheduled Duration of Run	DG No.	Number of Starts	Number of Failures	Percent Loading of DG (KW)	Duration of Run Before Stop For Each DG Failure	Identification of Failure (Refer to attached LERs or Table 3)
Tech. Spec Req'd Test						
Monthly Surveillance	11	12	0	100		
(1 Hour)	12	12	0	100		
(1 Start/Test)						
Misc. Tech. Spec. Required Tests (1 Hour) (1 Start/Test)	11	1	0	100		
	12	1	0	100		
DG Actual Demand Starts not for Testing						
Demand Start (0.60 Hour)	11	1	0	100		
	12					
Miscellaneous Tests (Specify Type)						
Test 0187, Start and Load Test (1 Hour) (1 Start/Test)	11	2	0	100		
Verify Repairs	12	1	0	100		

TABLE 1

Diesel Generator Operations Data

Calendar Year 19 78

Reason for DG Operation, & scheduled Duration of Run Tech. Spec Req'd Test	DG No.	Number of Starts	Number of Failures	Percent Loading of DG (KW)	Duration of Run Before Stop For Each DG Failure	Identification of Failure (Refer to attached LERs or Table 3)
Monthly Surveillance (1 Hour) (1 Start/Test)	11	12	0	100	_____	_____
	12	12	0	100	_____	_____
Misc. Tech. Spec. Required Tests (1 Hour) (1 Start/Hour)	11	2	0	100	_____	_____
	12	4	0	100	_____	_____
DG Actual Demand Starts not for Testing						
Demand Start	11	1	0	100	_____	_____
	12	1	0	100	_____	_____
Miscellaneous Tests (Specify Type)						
Test 0187, Start and Load Test (1 Hour) (1 Start/Test) Verify Repairs	11	2	0	100	_____	_____
	12	_____	_____	_____	_____	_____

TABLE 1

Diesel Generator Operations Data
 Calendar Year 1979

Reason for DG Operation, & scheduled Duration of Run	DG No.	Number of Starts	Number of Failures	Percent Loading of DG (KW)	Duration of Run Before Stop For Each DG Failure	Identification of Failure (Refer to attached LERs or Table 3)
Tech. Spec Req'd Test						
Monthly Surveillance (1 Hour)	11	12	0	100		
(1 Start/Test)	12	12	0	100		
No Misc. Tech. Spec. Required Tests (1 Hour)	11					
(1 Start/Test)	12					
DC Actual Demand Starts not for Testing						
No Demand Starts	11					
	12					
Miscellaneous Tests (Specify Type)						
Test 0187, Start and Load Test (1 Start/Test)	11	1	0	100/110		
(22 hours at 100%)	12	1	0	100/110		
(2 hours at 110%)						
Verify Repairs						

TABLE 1

Diesel Generator Operations Data Calendar Year 1980

Reason for DG Operation, & Scheduled Duration of Run Tech. Spec Req'd Test	DG No.	Number of Starts	Number of Failures	Percent Loading of DG (KW)	Duration of Run Before Stop For Each DG Failure	Identification of Failure (Refer to attached LERs or Table 3)
Monthly Surveillance (1 Hour) (1 Start/Test)	11	12	0	100	_____	_____
	12	12	0	100	_____	_____
Misc. Tech. Spec. Required Tests (1 Hour) (1 Start/Test)	11	1	0	100	_____	_____
	12	2	0	100	_____	_____
DG Actual Demand Starts not for Testing						
No Demand Starts	11	—	—	—	_____	_____
	12	—	—	—	_____	_____
Miscellaneous Tests (Specify Type)						
Test 0187, Start and Load Test (1 Hour) (1 Start/Test)	11	1	0	100	_____	_____
	12	3	0	100	_____	_____
Verify Repairs						

TABLE 2

Diesel Generator Scheduled Downtime Record
Calendar Year 19 76

Enclosure 1 - Page 2
Plant Name Monticello
Unit No. 1

Reason for Downtime	Hours of Downtime										Comments
	Reactor shutdown					Reactor not shutdown					
	DG# 11	DG# 12	DG#	DG#	DG#	DG# 11	DG# 12	DG#	DG#	DG#	
Scheduled Maintenance											
Preventive Maintenance						192*	192*				Preventive maintenance of all components of air start system. *Only one set of start motors is inoperable at any time. Diesel is operable and available for emergency, manual start.
Equipment Modification	0	0				0	0				
Time DG is unavailable for emergency service because of required tests	0	0				9	9				Diesel is inoperable approximately one half hour during test 0187, start and load test.

TABLE 2

Diesel Generator Scheduled Downtime Record
Calendar Year 1977

Enclosure 1 - Page 2
 Plant Name Monticello
 Unit No. 1

Reason for Downtime	Hours of Downtime										Comments
	Reactor shutdown					Reactor not shutdown					
	DG# 11	DG# 12	DG#	DG#	DG#	DG# 11	DG# 12	DG#	DG#	DG#	
Scheduled Maintenance											
Preventive Maintenance	192*	192*				0	0				Preventive maintenance of all components *Only one set of airstart motors is inoperable at any time. Diesel is operable and available for emergency manual start
Equipment Modification	0	0				0	0				A modification was done to each diesel in 7/77. Diesels were not inoperable during installation of modification
Time DG is unavailable for emergency service because of required tests	1	1				7	6				Diesel is inoperable approximately on half hour during test 0187, start and load test.

TABLE 2

Diesel Generator Scheduled Downtime Record
Calendar Year 1978

Enclosure 1 - Page 2
 Plant Name Monticello
 Unit No. 1

Reason for Downtime	Hours of Downtime										Comments
	Reactor shutdown					Reactor not shutdown					
	DG# 11	DG# 12	DG#	DG#	DG#	DG# 11	DG# 12	DG#	DG#	DG#	
Scheduled Maintenance											
Preventive Maintenance	504	504				0	0				Preventive maintenance of all components of air start system. Replacement of a cylinder head/liner seals and general inspection of diesel.
Equipment Modification	0	0				0	0				
Time DG is unavailable for emergency service because of required tests	2.5	3				5.5	5				Diesel is inoperable approximately one half hour during test 0187, start and load operability test.

TABLE 2

Diesel Generator Scheduled Downtime Record
Calendar Year 1979

Enclosure 1 - Page 2
 Plant Name Monticello
 Unit No. 1

Reason for Downtime	Hours of Downtime										Comments
	Reactor shutdown					Reactor not shutdown					
	DG# 11	DG# 12	DG#	DG#	DG#	DG# 11	DG# 12	DG#	DG#	DG#	
Scheduled Maintenance											
Preventive Maintenance	0	0				192*	192*				Preventive maintenance of all components of air start system *Only one set of air start motors is inoperable at any time. Diesel is operable and available for emergency manual start.
Equipment Modification	0	0				0	0				
Time DG is unavailable for emergency service because of required tests	0	0				6.5	6.5				

TABLE 2

Diesel Generator Scheduled Downtime Record
Calendar Year 1980

Enclosure 1 - Page 2
 Plant Name Monticello
 Unit No. 1

Reason for Downtime	Hours of Downtime										Comments
	Reactor shutdown					Reactor not shutdown					
	DC# 11	DC# 12	DC#	DC#	DC#	DC# 11	DC# 12	DC#	DC#	DC#	
Scheduled Maintenance											
Preventive Maintenance	160*	160*				48*	48*				Preventive maintenance of all components of the air start system. *Only one set of air start motors is inoperable at any time. Diesel is operable and available for emergency manual start.
Equipment Modification	18	18									Alarm and Control circuitry modification
Time DG is unavailable for emergency service because of required tests	2	1.5				5	5.6				Diesel is inoperable approximately one half hour during test 0187, start and load test.

TABLE 4

Onaite Emergency Diesel Generator and
Auxiliary Equipment Modification RecordEnclosure 1 - Page 4
Plant Name Monticello
Unit No. 1

Equipment or procedure modified	Date of Mod.	Reason for Modification and Desired Improvement	Description of Modification
NVR Relay	7/77	Replace NVR relay that failed due to excessive heat caused by high voltage and current, and to prevent recurrence.	The failed NVR relay was replaced with a new type of relay. The system was redesigned to reduce voltage across the relay coils to prevent further failures. This was accomplished by installing a resistor in series with the coil of the relay.
I-Beam	10/78	To provide a permanent lifting device above the diesel.	Normal pm of the diesel requires that the seals on each cylinder head/liner assembly be replaced on a 6-year interval. To enable this to be done, an I-Beam was installed above each bank of cylinders. This also involved re-arrangement of ventilation ducts in each diesel room to provide space.
Alarm and Control Circuitry	3/80	To eliminate the problem of sharing of a single annunciator station by alarms that indicate both disabling and nondisabling conditions. To provide the control room with a positive indication of a disabling condition.	Rewiring was done to the alarm control circuit breaker, the start 1 and start 2 circuit breaker and the air compressor 1 and air compressor 2 switch alarm contacts. This is so that only diesel disabling conditions are alarmed in the control room at the respective "Diesel Generator Maintenance Lock-Out" alarms.