REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCELERATED RIDS PROCESSING)

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Gregory Milleu Ior Senior WLE Presidentiand General Mislagen Nucleal Power Generation

September 12, 1994

PG&E Letter DCL-94-202

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Docket No. 50-275, OL-DPR-80 Docket No. 50-323, OL-DPR-82 Diablo Canyon Units 1 and 2 <u>Licensee Event Report 1-94-016-00</u> <u>Diesel Generators Started as Designed Upon De-Energization</u> of Startup Bus Due to Offsite Wildfire

Gentlemen:

Pursuant to 10 CFR 50.73(a)(2)(iv), PG&E is submitting the enclosed Licensee Event Report concerning auto-start of the diesel generators (ESF actuation), as designed, upon de-energization of the startup bus due to an offsite wildfire.

This event did not adversely affect the health and safety of the public.

Sincerely,

Gregory M. Rueger

cc: L. J. Callan Mary H. Miller Kenneth E. Perkins Sheri R. Peterson Diablo Distribution INPO

Enclosure

DC0-94-NR-N037

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I. Plant Conditions

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Units 1 and 2 were in Mode 1 (Power Operation) at 100 percent power.

II. Description of Event

A. Summary

All six emergency diesel generators (DGs)[EK][DG] auto-started, as required, when the Diablo Canyon Power Plant (DCPP) startup bus[EA][BU] de-energized following the loss of 230kV transmission lines[FK][CBL] due to an offsite wildfire. On August 15, 1994, at 1828 PDT, a one-hour, non-emergency report was made to the NRC in accordance with 10 CFR 50.72(b)(1)(v), " loss of offsite response capability," to report that many of the early warning sirens were inoperable due to the wildfire. The four-hour, non-emergency report for this event was not made to the NRC within the time allowed due to a delay in updating Procedure XI1.ID2, "Regulatory Reporting Requirements and Reporting Process."

B. Background

Standby offsite power to DCPP is provided from two 230kV lines and can be provided from three 500kV lines when the DCPP main generator is not operating. Two of the 500kV lines feed the PG&E grid through the Midway substation, and the other 500kV line feeds the PG&E grid through the Gates substation. DCPP can be fed offsite power via the main and auxiliary transformers from these three 500kV sources. Two Morro Bay-to-Mesa substation 230kV lines feed DCPP via the startup transformers and are the principle sources of startup power. These two 230kV lines are fed from four operating units at Morro Bay power station and are capable of being fed from the two 230kV lines from the Gates substation or the two 230kV lines from the Midway substation (see Figure 1).

Interdepartmental Administrative Procedure (IDAP) XI1.ID2, "Regulatory Reporting Requirements and Reporting Process," Attachment 8.7, provides guidance on 10 CFR reporting. Item 9 of the attachment, Diesel Generators, indicated that a DG start due to loss of startup power was not considered an engineered safety feature (ESF) actuation.

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C. Event Description

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On August 15, 1994, at 0439 PDT, the 500kV line to the Gates substation tripped due to a wildfire. At 0924 PDT, both Morro Bay-to-Gates substation 230kV lines tripped due to the wildfire, and Morro Bay Unit 3 tripped off line due to the system disturbances. Morro Bay Unit 2 was out of service for maintenance. The two 500kV lines from DCPP to Midway substation were in no immediate danger from the wildfire. However, PG&E reviewed applicable procedures and made plans for a complete loss of offsite power and reactor trips on both units in the event that the wildfire de-energized the other 500kV transmission lines.

On August 15, 1994, at 1704 PDT, the two 230kV lines between Morro Bay switchyard and the Midway substation tripped due to the wildfire. Morro Bay Units 1 and 4 tripped due to the system disturbance. Since all sources of 230kV power were lost, the Morro Bay 230kV switchyard was de-energized.

On August 15, 1994, at 1704 PDT, all six emergency DGs auto-started but did not load, as designed, following a loss of startup power when the 230kV Morro Bay-Midway transmission line de-energized.

On August 15, 1994, at 1740 PDT, all DGs were shutdown and returned to the auto-start mode with the startup bus undervoltage start defeated.

On August 15, 1994, at 1815 PDT, PG&E determined that the early warning sirens had become inoperable due to the loss of power from Morro Bay.

On August 15, 1994, at 1828 PDT, a one-hour, non-emergency report was made to the NRC in accordance with 10 CFR 50.72(b)(1)(v) for loss of offsite response capability. Loss of the Morro Bay-to-Mesa 230kV lines caused power outages in San Luis Obispo County. As a result, many of the early warning sirens were without power.

On August 15, 1994, at 2200 PDT, power was restored to the early warning sirens.

On August 15, 1994, at 2350 PDT, the DCPP startup bus and 230kV system were returned to service (declared operable) when the Morro Bay switchyard was re-energized from one of the Morro Bay-to-Gates 230kV transmission lines.

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D.	Inoperable Struct				hat C	ontrik	pute	ed to t	he Ev	ent
•	None.	·	v			,			•	
E	Dates and Approx	kimate Times for	· Major Oo	ccurren	ces					-
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F.	Other Systems or	Secondary Fun	ctions Aff	ected						
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•	During a review o that the DG auto- non-emegency re	starts had									
Н.	Operators Actions	; ,						ŧ	r		
	The DGs were se startup bus auto-s			ed to nor	mal star	ndby m	node v	with the	loss	of	
	PG&E reviewed a offsite power and de-energized the	reactor tri	ps on l	both units	s in the e) loss	of ,	
Ι.	Safety System Re	sponses									
	All six DGs starte	d but did r	not load	d, as des	igned.						
III. <u>Caus</u>	e of the Event										
A.,	Immediate Cause	,						a			
	Loss of 230kV sta	irtup powe	er from	Morro Ba	ay.		-				
В.	Root Cause										
	The loss of startu Bay substation to										
	The current draft auto-starts are no guidance from the actuation. The la Procedure XI1.ID: informal guidance	t an ESF a NRC to in te 10 CFR 2 following	actuati nclude 50.72	on. How anticipat report w	ever, PG ory DG a as due to	6&E re auto-s o an u	ceive tarts a ntime	d inforn as an E ly revisi	nal SF ion of	ŕ	

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IV. Analysis of the Event

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The DGs actuated and performed as designed during this event. Thus, the health and safety of the public were not affected by this event.

V. <u>Corrective Actions</u>

A. Immediate Corrective Actions

After startup power was returned, the DGs loss of startup power auto-start feature was reactivated.

Procedure XI1.ID2 was revised to include loss of startup power as a valid ESF actuation signal with regard to 10 CFR 50.72 reporting.

Most of the inoperable early warning sirens were made operable by re-energizing of the PG&E transmission system. Some sirens took up to 72 hours to repair due to fire damaged poles, lines, wiring, etc.

B. Corrective Actions to Prevent Recurrence

The DGs performed as required by design, therefore no corrective action for this event was determined to be necessary.

VI. Additional Information

A. Failed Components

None.

B. Previous LERs on Similar Problems

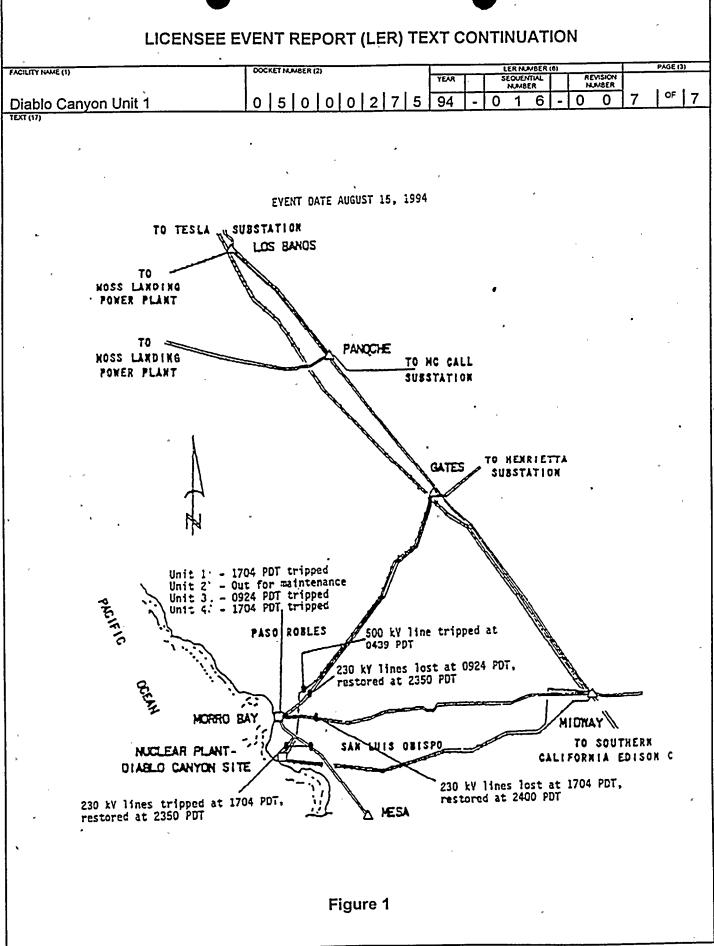
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