

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Indian Point Unit No. 2

DOCKET NUMBER (2)
0 5 0 0 0 2 4 7

PAGE (3)
1 OF 4

TITLE (4)
Emergency Diesel Generator ICG with an Inoperable Service Water Pump

EVENT DATE (8)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
10	20	88	88	015	001	10	21	88			0 5 0 0 0
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)											

OPERATING MODE (8)	20.402(b)	20.406(a)(1)(i)	20.406(a)(1)(ii)	20.406(a)(1)(iii)	20.406(a)(1)(iv)	20.406(a)(1)(v)	20.406(a)(1)(vi)	20.406(c)	50.73(a)(2)(i)	50.73(a)(2)(ii)	50.73(a)(2)(iii)	50.73(a)(2)(iv)	50.73(a)(2)(v)	50.73(a)(2)(vi)	50.73(a)(2)(vii)	50.73(a)(2)(viii)	50.73(a)(2)(ix)	73.71(b)	73.71(c)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
110 b																				

LICENSEE CONTACT FOR THIS LER (12)

NAME: **George Dahl, Engineer**

TELEPHONE NUMBER: **9 1 4 5 2 6 1 - 5 1 8 6**

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
B	B I	ST RZ	0 1 0	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 words, i.e., approximately fifteen single-space typewritten lines) (16)

At approximately 1035 hours on October 20, 1988, while the plant was at full power, 22 Service Water Pump on the designated essential header was declared inoperable when its strainer became inoperable and required removal from service for emergency repairs. Prior to this, 23 Emergency Diesel Generator and 26 Service Water Pump on the designated non-essential header had been declared inoperable and were still out of service for scheduled maintenance. The simultaneous inoperability of 22 Service Water Pump and 23 Emergency Diesel Generator created a condition that was prohibited by Technical Specifications and which subsequently required entry into Technical Specification 3.0.1. Repairs to 22 Service Water Pump strainer were completed by 1445 hours which allowed exit from Technical Specification 3.0.1. The health and safety of the public were not affected by this event.

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TEXT (1) more space is required, use additional NRC Form 366A (17)

PLANT AND SYSTEM IDENTIFICATION:

Westinghouse 4-loop pressurized water reactor

IDENTIFICATION OF OCCURRENCE:

Scheduled maintenance on 23 Emergency Diesel Generator (EDG) concurrent with emergency repairs to 22 Service Water Pump (SWP) strainer created a condition that was prohibited by Technical Specifications, thereby requiring entry into Technical Specification 3.0.1.

EVENT DATE: October 20, 1988

REPORTABILITY DETERMINATION DATE: October 20, 1988

REPORT DUE DATE: November 21, 1988

REFERENCES: Significant Occurrence Reports (SOR) 88-543, 88-544, 88-544A

PAST SIMILAR OCCURRENCES: None

DESCRIPTION OF OCCURRENCE:

On October 20, 1988 at approximately 1035 hours, 22 SWP was declared inoperable when its strainer exhibited high differential pressure and was removed from service for repair. The plant was operating at 100% power and the designated essential service water header at the time was the header served by 21, 22 and 23 SWPs. Concurrently, 26 SWP on the designated non-essential service water header was undergoing scheduled corrective maintenance. Therefore, since one pump on the essential header was inoperable, and the non-essential header could not be used to fulfill the requirement for an essential header, the Limiting Condition for Operation (LCO) specified in Technical Specification 3.3.F.2 was entered. An operable essential service water system was required to be established within 8 hours.

Additionally, 23 EDG had been out of service since October 17, 1988 for preventive maintenance work and the LCO specified in Technical Specification 3.7.B.1 was in effect. At approximately 1430 hours on October 20, 1988, it was determined the requirements of Technical Specification 3.7.B.1 were no longer satisfied since an engineered safety feature (22 SWP) associated with 22 EDG was inoperable. Therefore, since the LCO could not be satisfied because of circumstances in excess of those addressed in the specification, it was determined Technical Specification 3.0.1 was applicable.

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DESCRIPTION OF OCCURRENCE (Continued):

By 1445 hours, repairs to 22 SWP strainer were completed, it was successfully tested and returned to service, and 22 SWP was declared operable. Reestablishing the operability of 22 SWP restored compliance to the EDG LCO and Technical Specification 3.0.1 was exited. Also, with three SWPs operable on the designated essential header the service water LCO was satisfied.

ANALYSIS OF OCCURRENCE:

When 23 EDG was removed from service to perform maintenance, the LCO specified in Technical Specification 3.7.B.1 was entered and a 7 day LCO was declared. The removal from service of non-essential 26 SWP did not cause the plant to enter a LCO and two operable SWPs remained on the designated non-essential header. However, when it became necessary to concurrently repair 22 SWP strainer, which rendered essential 22 SWP inoperable, it was not immediately possible to exchange headers to maintain a designated essential header with three operable pumps. Therefore, since Technical Specification 3.3.F.2 allows one essential SWP to be inoperable for 8 hours it was believed applicable to enter that LCO at that time. There were now thought to be two separate LCOs in effect, a 7 day EDG LCO and an 8 hour SWP LCO.

Later in the day it was determined that placing 22 SWP out of service did not satisfy the requirements of Technical Specification 3.7.B.1 pertaining to one inoperable EDG. That LCO permits one EDG to be inoperable for seven days provided off-site power sources are available and the two remaining EDGs and their associated engineered safety features are operable. Since 22 EDG provides emergency power to 22 SWP, not all of the engineered safety features associated with 22 EDG were operable. Therefore, the EDG LCO was not satisfied because of circumstances in excess of those addressed in Technical Specification 3.7.B.1 and Technical Specification 3.0.1 was entered. Entries into 3.0.1 are reportable pursuant to 10CFR50.73(a)(2)(i)(B) because the plant is operating with a condition prohibited by Technical Specifications.

During this time 22 EDG was operable and capable of supplying emergency power to its required loads. At the same time, two essential SWPs were available through normal power supplies to provide cooling to required loads.

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TEXT (If more space is required, use additional NRC Form 364a (17))

CAUSE OF OCCURRENCE:

The ongoing maintenance on 23 EDG resulted in the inability to comply with the requirements of the EDG LCO with the unscheduled removal from service of 22 SWP to effect emergency repairs to its strainer. This necessitated entry into Technical Specification 3.0.1. Concurrently, the ongoing maintenance on 26 SWP on the non-essential header caused a situation where an operable essential service water system could not be immediately restored.

CORRECTIVE ACTIONS:

The strainer for 22 SWP was repaired and returned to service which rendered 22 SWP operable and restored compliance to the EDG LCO.

Stephen B. Bram
Vice President

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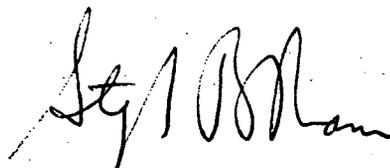
November 28, 1988

Re: Indian Point Unit No. 2
Docket No. 50-247
LER 88-015-00

Document Control Desk
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Mail Station Pl-137
Washington, DC 20555

The attached Licensee Event Report LER 88-015-00 is hereby submitted in accordance with the requirements of 10CFR50.73.

Very truly yours,



Attachment

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