Indian Point 3 Nuclear Power Plan P.O Box 215 Buchanan, New York 10511 914-736.8001



New York Power Authority

December 2, 1993 IPN-93-152

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Mail Stop PI-137 Washington, D.C. 20555

SUBJECT:

Indian Point 3 Nuclear Power Plant Docket No. 50-286 Licensee Event Report # 93-048-00 "Plant Outside Its Design Basis Due to Potential Single Failure of Control Building Ventilation for 480VAC Switchgear Causing Room Temperatures to Exceed Switchgear Design"

Dear Sir:

The attached Licensee Event Report (LER) 93-048-00 is hereby submitted in accordance with the requirements of 10 CFR 50.73. This event is of the type defined in the requirements pursuant to 10 CFR 50.73(a)(2)(ii)(B), 10 CFR 50.73 (a)(2)(v)(A) and 10 CFR 50.73 (a)(2)(v)(B). Also attached are the commitments made by the Authority in this LER.

Very truly yours,

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John H. Garrity Resident Manager Indian Point 3 Nuclear Power Plant

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# JHG/DWO/vjm

cc:

See Next Page





John H. Garrity Resident Manager



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Mr. Thomas T. Martin Regional Administrator Region 1 U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, Pennsylvania 19406

INPO Records Center 700 Galleria Parkway Atlanta, Georgia 30339-5957

U.S. NRC Resident Inspectors' Office Indian Point 3



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# Attachment 1 List of Commitments

Number	Commitment	Due
IPN-93-152-01	A temporary modification will be installed to provide a control room alarm on high CB 15 foot elevation ambient temperature. This temporary modification will be installed by December 15, 1993.	December 15, 1993
IPN-93-152-02	A modification will be installed to separate the power supplies for exhaust fans 33 and 34. This modification will be installed prior to plant startup.	Prior to plant startup
IPN-93-152-03	An evaluation will be performed on the existing ventilation system for the CB 15 foot elevation and also other non- safety related HVAC systems including the ventilation system for the CB 33 foot elevation to determine the need for modifications to assure compliance with the design bases and licensing commitments. This evaluation is scheduled for completion prior plant startup.	Prior to plant startup
IPN-93-152-04	Modifications to the CB HVAC system will be made as required based on the results of the above evaluation. The schedule for the completion for such modifications will be dependent upon the scope on the modifications.	Indeterminate
IPN-93-152-05	Priority I and II design document open items for the CB HVAC system will be reviewed prior to plant startup to determine their safety significance.	Prior to plant startup
IPN-93-152-06	Exhaust fans 33 and 34 control components will be upgraded to QA Category I.	Prior to plant startup
IPN-93-152-07	Training on AP-8 will be provided to those corporate personnel involved in the modification or review of the design of IP3. This training will be completed prior to plant startup.	Prior to plant startup



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Number	Commitment	Due
IPN-93-152-08	An Alarm Response Procedure (ARP) will be developed to identify a response for increasing CB 15 foot elevation switchgear room ambient temperature in order to maintain the temperature below the design value. This procedure will be developed prior to plant startup.	Prior to plant startup
IPN-93-152-09	The completion of the IPE level 1 analysis for this event is schedule for completion by April 30, 1994.	April 30, 1994

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BSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16) On October 7, 1993, with the plant in the cold shutdown condition, a concern was identified as a result of preliminary calculations and analyses performed in support of the Indian Point 3 Individual Plant Examination (IP3-IPE), that a single failure of the Control Building 15 foot elevation ventilation system could result in elevated switchgear room temperatures. This condition could cause tripping of multiple circuit breakers as a result of thermal trip of breaker. control components. This concern had previously had been identified by an internal memorandum on July 27, 1992. This event was caused by human errors of indeterminate origin during the design process. A lack of aggressive corrective action and inadequate training contributed to an untimely response. A four (4) hour report was made to the NRC pursuant to 10 CFR 50.72(b)(2)(i), (b)(2)(iii)(A) and (b)(2)(iii)(B) at 1547 hours on November 2, 1993 when the preliminary calculations were verified. Corrective actions include a temporary modification to provide control room indication and alarm of high ambient temperature in the switchgear room, a modification to separate the power supplies to the two exhaust fans, and upgrading the fan control components to															

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DESCRIPTION OF EVENT

On July 27, 1992 with the plant in the hot shutdown condition (reactor power level 130 cps, reactor coolant temperature at 547 degrees Fahrenheit, reactor coolant pressure at 2245 psig, and pressurizer level at 26%), a preliminary calculation for the Indian Point 3 Individual Plant Examination (IP3-IPE) identified a concern with loss of Control Building (CB) (NA) 15 foot elevation 480VAC switchgear (SWGR) room exhaust fans (FAN) 33 and 34. The IPI postulated that a loss of ventilation would result in 480VAC The IPE scenario switchgear room temperatures in excess of 120 degrees Fahrenheit. Ambient temperatures above 104 degrees Fahrenheit can result in ampacity derating of electrical components located in the room. The. elevated temperatures were postulated to result in failure of multiple circuit breakers (52) due to thermal effects on breaker control. components. These failures, in turn, could lead to a plant trip. This concern was identified to Nuclear Generation department management via an internal memorandum (JTW-92-35) dated July 27, 1992. The project to reconstitute the design bases of the 480VAC switchgear and the CB heating ventilation and air conditioning (HVAC) (VI) systems used Design Document Open Item (DDOI) numbers 480-01-004 and CBHVS-01-001 to track this issue. These DDOIs required verification that the 480VAC switchgear ambient environment would not exceed 104 degrees Fahrenheit. The project recommended performing switchgear room heatup calculations to determine the air temperature in the absence of the ventilation system.

On October 7, 1993 with the plant in the cold shutdown condition (reactor power at 12 cps, reactor coolant temperature at 110 degrees Fahrenheit, reactor coolant pressure at atmospheric, and pressurizer level at 26%), Significant Occurrence Report (SOR) 93-608 was issued by the watch engineer based on input from the Operations department's Senior Technical Advisor who had been recently appointed station technical liaison to the IPE. The SOR identified the CB exhaust fans as being powered from Motor Control Center 39 (MCC-39) and provided a summary of the concerns raised by the IPE analyses. A four (4) hour report was made to the NRC pursuant to 10 CFR 50.72(b) (2) (i), 10 CFR 50.72(b) (2) (iii) (A) and 10 CFR 50.72 (b) (2) (iii) (B) at 1547 hours on November 2, 1993 when the preliminary calculations were verified.

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switchgear (buses 2A, 3A, means of two exhaust fans, fan is 50% of the required controlled by a thermostat Fahrenheit. Exhaust fan 3 its associated louver 319 at 100 degrees Fahrenheit. (LP) 319. Both exhaust fan Final Safety Analysis Repo (DBD) indicated that the C as seismic class I and non plant design. These compo (QA) Category I in the Plan been maintained as such in 002-VSS, revision 2, "Inspe Ventilation Fans." No evic which control fan operation non-safety related and non operation.	5A and 6A). Th 33 and 34. Th design. Exhau (TH) which wil 3 is controlled which is thermo Louver 319 is ns are powered rt (FSAR) and t B exhaust fans -safety related nents are ident nt Equipment Da accordance wit ection of Catego dence exists to n were purchased -seismic. Thei	is room is ventilated 4800AC his room is ventilated by he capacity of each exhaust has fan 34 is directly ll start the fan at 95 degrees he by a limit switch (33) on ostatically controlled to open powered from Lighting Panel from MCC-39. A review of the the Design Basis Document were designed and purchased has part of the original ified as Quality Assurance atabase (PEDB). They have the maintenance procedure FAN- gory I and Category M Plant o conclude that the components ed or maintained as other than ir failure could prevent fan
The CB 15 foot elevation so both powered from 480VAC Mo would result in a total los 480VAC switchgear. Current safety injection (SI) signa (LOOP). The MCC is subsequin accordance with System ( Non-Safeguards Equipment Do Procedures, " approximately In response to 480VAC switch recently been approved to:	witchgear room ( CC-39. Therefore ss of forced ver- tly, this MCC is al with a concur- uently re-energe Operating Proceed uring Use of the 25 to 30 minute chgear loading (	exhaust fans 33 and 34 are ore, failure of a single MCC entilation to the essential is stripped upon receipt of a urrent loss of offsite power gized when the MCCs are reset dure SOP-EL-15 "Operation of the Emergency Operating is after the SI/LOOP signal. concerns, modifications have breaker controls such that

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During the verification and approval of the preliminary calculations which indicated that loss of exhaust fans was a concern, it was determined by electrical engineering that the actual heat loads are slightly higher than the calculations' assumed heat input. The calculations utilized the heat release data from IP3's Architect/Engineer, United Engineers and Constructors (UE&C), calculation "Heat Dissipation - Control Building - Elev. 15'" dated July 24, 1969. Electrical engineering also confirmed that the switchgear loading calculations for the 480VAC switchgear were based on a maximum room ambient temperature of 104 degrees Fahrenheit.

## CAUSE OF THE EVENT

This event was caused by human errors of indeterminate origin during the design process. The cause for the lack of timeliness in the issuance of the SOR was due to lack of aggressive action by corporate support and plant personnel. A contributory cause was corporate personnel being not being trained on site administrative procedures (AP), specifically AP-8, "Reportability Manual."

#### CORRECTIVE ACTIONS

The following corrective actions have been or will be performed in order to address the deficiencies identified during the investigation of this event and to prevent recurrence:

- Operations department Night Order 93-311 was issued on October 7, 1993. This order was subsequently replaced with Night Order 318 to alert the operators of the postulated effects of high ambient temperatures in the CB 15 foot elevation switchgear room. The night order provides for mitigating responses as well as the resetting of safety related circuit breakers.
- A temporary modification will be installed to provide a control room alarm on high CB 15 foot elevation ambient temperature. This temporary modification will be installed by December 15, 1993.

A modification will be installed to separate the power supplies for exhaust fans 33 and 34. This modification will be installed prior to plant startup.

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•	The completion of the IP scheduled for completion	E level 1 and by April 30	alysis , 1994	for this	s event	: is
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## ANALYSIS OF THE EVENT

This event is reportable under 10 CFR 50.73(a)(2)(ii)(B), 10 CFR 50.73(a)(2)(v)(A) and 10 CFR 50.73(a)(2)(v)(B). The design of the CB 15 foot elevation switchgear ventilation system placed the plant outside the design basis during the period from initial criticality through October 7, 1993 when compensatory measures were initiated to deal with potential high room temperatures. The system was initially designed as seismic class I, non-safety related. Exhaust fans 33 and 34 are not full capacity and are powered from the same MCC. During this period, there was the possibility that a failure of the CB switchgear room ventilation system could have resulted in tripping of multiple, redundant safety related 480VAC circuit breakers. A four (4) hour report was made to the NRC pursuant to 10 CFR 50.72 (b) (2) (i), 10 CFR 50.72 (b) (2) (iii) (Å) and 10 CFR 50.72 (b) (2) (iii) (B) at 1547 hours on November 2, 1993 when the preliminary calculations were verified. This condition was found while shutdown. Had it been found while operating, it would have placed the plant in an unanalyzed condition that would have significantly compromised plant safety. Additionally, this condition could have prevented the fulfillment of the safety function of plant systems to shutdown the reactor and maintain it in a safe shutdown condition and remove residual heat.

LERs 93-002, 93-007, 93-026, 93-030, 93-035, 93-036, 93-044, and 93-045 have reported similar events in that the original engineering design was inadequate.

#### SAFETY SIGNIFICANCE

The effect on the health and safety of the public has not yet been fully assessed for this event.

The plant was designed to safely shut down the plant following a loss of offsite power (LOOP) or a safe shutdown earthquake (SSE) and to mitigate the consequences of a loss of coolant accident (LOCA) considering a LOOP. A single failure is considered in evaluating the ability to meet design.

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The reported event identifies ventilation due to a failure MCC-39 being stripped following safety injection (SI) signal. result in a loss of exhaust for failure of the CB 15 foot ele complete or partial loss of so high temperature.	the loss of of fan contr ng a LOOP, w Additional ans 33 and 3 vation venti afety relate	CB 15 foot elevati ol components or po ith or without a co ly, a seismic event 4 control component lation would result d 480VAC switchgear	on wer to incident could s. The in due to		
The safety significance was e potential safety significance safety significance because t potential safety significance conditions.	valuated by of the even here was no was assesse	looking at the actu t. There was no ac loss of ventilation d for design basis	al and tual . The		
Procedures and equipment exist the random failure of MCC-39, these events can result in far diesel generator is available Appendix R diesel generator we outside the central control re include the 480VAC safety swi operators to shutdown the plat expected to be available follow seismically qualified based of developed by the Seismic Qual Unresolved Safety Issue A-46.	t to safely a LOOP, or n failure bu for safe sh as designed oom followin tchgear and nt. The 10 owing the SS n the earthq ification Ut	shutdown the plant a seismic event. E t the 10 CFR 50, Ap utdown. The 10 CFR to allow for safe s g a fire whose dama would be available CFR 50, Appendix R E even though it is uake experience dat ility Group in addr	following ach of pendix R 50, hutdown ge could for the diesel is not a essing		
A LOCA with a LOOP or a failur the 480VAC switchgear. Immed doors, using fire protection p temperature rise in the area functional capability of the room alarm indicating a loss operators of the need for imme conservatively calculated rate rapid and the demands on opera action cannot be depended upor related 480VAC switchgear. The testing. A probabilistic rise quantify the probability asso mitigate the consequences of health and safety can be deter will be reported in a supplem	re of MCC-39 iate operato portable exh would be req 480VAC switc of MCC-39 wo ediate corre e of tempera ators are su n to prevent his condition k based anal ciated with the LOCA so rmined. The entary LER.	could result in a r action (e.g., ope aust fans) to mitig uired to maintain t hgear. A central c uld provide indicat ctive action. The ture rise is suffic ch that immediate o failure of the saf n has not been conf ysis is currently u the loss of ability that the effect on results of this an	loss of ning ate the he ontrol ion to the iently perator ety irmed by nderway to to public alysis		