

Part 21 (PAR)

Event # 51975

Rep Org: PRAIRIE ISLAND NUCLEAR GENERATING Supplier: ABB, INC.		Notification Date / Time: 06/03/2016 13:02 (EDT) Event Date / Time: 05/31/2016 (CDT) Last Modification: 06/03/2016	
Region: 3 City: WELCH County: State: MN	Docket #: Agreement State: Yes License #:		
NRC Notified by: THOMAS A. CONBOY HQ Ops Officer: DONG HWA PARK Emergency Class: NON EMERGENCY 10 CFR Section: 21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE		Notifications: DAVID HILLS R3DO PART 21/50.55 REACTORS EMAIL	

PART 21 - NOTIFICATION OF DEVIATION OF K-LINE CIRCUIT BREAKER SECONDARY TRIP LATCH

The following was received from Prairie Island Nuclear Generating Plant via fax:

"Name and address of the individual or individuals informing the Commission:

Thomas A. Conboy
Director of Site Operations
Prairie Island Nuclear Generating Plant
Northern States Power Company - Minnesota
1717 Wakonade Drive East
Welch, MN 55089

"Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect:

ABB Inc.
BREAKER, CIRCUIT, SWITCHGEAR, 480, 3, 600
Type: K-600S EO

"Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect:

Address on original purchase order:

ABB Power Distribution
455 Century Point
Lake Mary, FL 32772

Address on current Qualified Supplier List:

IE19
NRR

ABB, Inc. - Protective Relays & Switches
4300 Coral Ridge Dr.
Coral Springs, FL 33065

"Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply:

During surveillance testing of the D5 emergency diesel generator, Prairie Island Nuclear Generating Plant (PINGP) observed the diesel room cooling fan (21 D5 DSL RM CLG FAN) did not start. The fan did not start because the supply breaker (BKR 211D) did not close to provide power to the fan. Visual inspection of the breaker identified the Secondary Trip Latch Assembly had an abnormal pin installation. The diesel room cooling fan assures operability of the emergency diesel generator that is necessary to assure the capability of shutting down the reactor and indefinitely maintaining it in cold shutdown.

"The date on which the information of such defect or failure to comply was obtained: May 31, 2016.

"In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part:

Eleven ABB K-600S EO breakers with 86 Lock Out are on the Prairie Island Nuclear Generating Plant (PINGP) site:

BKR 211D, 21 D5 DSL RM COOLING FAN
BKR 221D, 22 D6 DSL RM COOLING FAN
BKR 112C, MCC 1S1 & PRZR HTRS GRP A
BKR 212C, MCC 2S1 & PRZR HTRS GRP A
BKR 122C, MCC 1R1 & PRZR HTRS GRP B
BKR 222C, MCC 2R1 & PRZR HTRS GRP B
Five spares not installed in plant.

"The corrective action which has been, is being, or will be taken: the name of the individual or organization responsible for the action: and the length of time that has been or will be taken to complete the action:

PINGP entered the breaker failure into the Corrective Action Program.

PINGP replaced the two diesel cooling room fan breakers with breakers having no abnormally positioned pins in the secondary trip latch assemblies. PINGP inspected BKR 221D and found a satisfactory Secondary Trip Latch Assembly.

PINGP performed extent of condition inspections on the four pressurizer heater circuit breakers and found satisfactory Secondary Trip Latch Assemblies.

PINGP will revise Electrical Maintenance Procedure PE 4824, Receipt Inspect 480 Volt Breaker, to visually inspect K-600S EO circuit breakers for Secondary Trip Latch Assembly pin alignment. The revised inspection procedure will prevent recurrence since PINGP performs the inspection prior to installing 480V circuit breakers in the plant. The procedure change is expected to be completed by end of August.

Site Transmission and Distribution Coordinator and lead breaker (relay) technician are informed on this issue.

PINGP performed a past operability review and determined that the D5 emergency diesel generator would have performed its specified safety function for the time period reviewed.

PINGP returned the failed breaker to the manufacturer for evaluation. Additional corrective actions will be taken as necessary.

"Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees:

Verify alignment of Secondary Trip Latch Assembly pins on K-600S EO circuit breakers with 86 Lock Out.
Contact the K-600S EO manufacturer for additional advice.

"In the case of an early site permit, the entities to whom an early site permit was transferred:
Not applicable."

HOO Note: See EN #51976 for Part 21 received from ABB, Inc.



Prairie Island Nuclear Generating Plant
1717 Wakonade Drive East
Welch, MN 55089

JUN 03 2016

L-PI-16-050
10 CFR 21.21(d)(3)(i)

NRC Operations Center
Via fax (301) 816-5151

Prairie Island Nuclear Generating Plant, Units 1 and 2
Docket Nos. 50-282 and 50-306
Renewed Facility Operating License Nos. DPR-42 and DPR-60

Initial Notification of Failure to Comply or Existence of a Defect

Pursuant to 10 CFR 21.21(d)(3)(i) Northern States Power Company, a Minnesota corporation, doing business as Xcel Energy (hereafter "NSPM"), submits the attached initial notification of failure to comply or existence of a defect.

If there is any question or if additional information is needed, please contact Dr. Glenn A. Carlson, P.E., at 651-267-1755.

Summary of Commitments

This letter contains no new commitment and no revision to an existing commitment.

A handwritten signature in black ink, appearing to read 'TAC Conboy'.

Thomas A. Conboy
Director of Site Operations, Prairie Island Nuclear Generating Plant
Northern States Power Company - Minnesota

Attachment (1)

cc: Regional Administrator, Region III, USNRC
Project Manager, Prairie Island Nuclear Generating Plant, USNRC
Resident Inspector, Prairie Island Nuclear Generating Plant, USNRC

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