

Part 21 (PAR)

Event # 51294

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|---|-----------------------------------|---|-------|
| Rep Org: XCEL ENERGY | | Notification Date / Time: 08/06/2015 17:47 (EDT) | |
| Supplier: ABB POWER T&D COMPANY, INC | | Event Date / Time: 06/16/2015 (CDT) | |
| | | Last Modification: 08/06/2015 | |
| Region: 3 | Docket #: | | |
| City: WELCH | Agreement State: Yes | | |
| County: | License #: DPR-42 & DPR-60 | | |
| State: MN | | | |
| NRC Notified by: SCOTT SHARP | | Notifications: ROBERT DALEY | R3DO |
| HQ Ops Officer: JEFF ROTTON | | PART 21/50.55 REACTORS | EMAIL |
| Emergency Class: NON EMERGENCY | | | |
| 10 CFR Section: | | | |
| 21.21(d)(3)(i) DEFECTS AND NONCOMPLIANCE | | | |

PART 21 REPORT - ABB 50H INSTANTANEOUS OVER CURRENT PROTECTION RELAY FAILURE

The following information was excerpted from a facsimile received from the Xcel Energy:

"Pursuant to 10 CFR 21.21(d)(3)(i) Northern States Power Company, a Minnesota corporation, doing business as Xcel Energy, 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.

"Name and address of the individual or individuals informing the Commission: Scott M. Sharp, Site Operations Director, Prairie Island Nuclear Generating Plant (PINGP), 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 Power T&D Company Inc., Relay, Overload, Overcurrent, 58/125VDC, Type: 50H, Cat.: 468S0475, 1.B.: 7.2.1.7-3

"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 bench testing to calibrate the relay, 125 VDC was applied to the relay with no noticeable effect. This was shop work on a spare relay and was not a plant installed piece of equipment. The relay protects against an instantaneous over current condition, which if undetected would cause substantial damage to the motor. This type of relay is installed in many locations; the failed relay was reserved to replace an existing relay protecting a Residual Heat Removal System pump motor. If the relay had been installed and required actuation during an accident, it would have resulted in major degradation in safety related equipment.

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NRR

"The ABB 50H relays are installed in ten locations at PINGP. All of the 50H relays are installed on the Unit 2 safety-related buses. The equipment protected is 21 Aux Feedwater Pump, 21 Component Cooling Pump, 21 Residual Heat Removal Pump, 21 Safety Injection Pump, 21 Containment Spray Pump, 22 Safety Injection Pump, 22 Residual Heat Removal Pump, 22 Component Cooling Pump, 22 Containment Spray Pump, and 121 Cooling Water Pump. The failed relay was reserved to replace an existing relay protecting a Residual Heat Removal pump motor.

"PINGP Material Management has custody of the failed relay pending further investigation and notified the supplier of this notification by email on 8/6/2015.

"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: Continue bench testing relays prior to installation."



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

AUG 06 2015

L-PI-15-069
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
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, 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 existing commitments.

A handwritten signature in black ink, appearing to read 'Scott Sharp'.

Scott M. Sharp
Site Operations Director, 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
State of Minnesota

Attachment

Initial Notification of Failure to Comply or Existence of a Defect

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

Scott M. Sharp
Site Operations Director
Prairie Island Nuclear Generating Plant (PINGP)
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 Power T&D Company Inc.
Relay, Overload, Overcurrent, 58/125VDC
Type: 50H
Cat.: 468S0475
I.B.: 7.2.1.7-3

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: | Address on current Qualified Supplier List: |
| ABB Power Distribution | ABB, Inc. – Protective Relays & Switches |
| 455 Century Point | 4300 Coral Ridge Dr. |
| Lake Mary, FL 32772 | 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 bench testing to calibrate the relay, 125 VDC was applied to the relay with no noticeable effect. This was shop work on a spare relay and was not a plant-installed piece of equipment.

The relay protects against an instantaneous over current condition, which if undetected would cause substantial damage to the motor. This type of relay is installed in many locations; the failed relay was reserved to replace an existing relay protecting a Residual Heat Removal System pump motor.

If the relay had been installed and required actuation during an accident, it would have resulted in major degradation in safety related equipment.

The date on which the information of such defect or failure to comply was obtained:

June 16, 2015.

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:

The ABB 50H relays are installed in ten locations at PINGP. All of the 50H relays are installed on the Unit 2 safety-related buses. The equipment protected is 21 Aux Feedwater Pump, 21 Component Cooling Pump, 21 Residual Heat Removal Pump, 21 Safety Injection Pump, 21 Containment Spray Pump, 22 Safety Injection Pump, 22 Residual Heat Removal Pump, 22 Component Cooling Pump, 22 Containment Spray Pump, and 121 Cooling Water Pump. The failed relay was reserved to replace an existing relay protecting a Residual Heat Removal pump motor.

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 Material Management has custody of the failed relay pending further investigation and notified the supplier of this notification by email on 8/6/2015.

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:

Continue bench testing relays prior to installation.

In the case of an early site permit, the entities to whom an early site permit was transferred:

Not applicable.