Xcel Energy®

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

SEP 03 2015

L-PI-15-074
10 CFR 21.21(d)(3)(ii)

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

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

Notification of Failure to Comply or Existence of a Defect

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

This letter is written notification of the failure of a safety-related overcurrent protection relay during bench testing. NSPM submitted an initial notification of this condition by facsimile dated August 6, 2015, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15223B265).

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.

Kevin Davison
Site Vice-President, 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 Inspectors, Prairie Island Nuclear Generating Plant, USNRC
State of Minnesota

Attachment

Final Report of Failure to Comply or Existence of a Defect

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

Kevin Davison
Site Vice-President
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 455 Century Point Lake Mary, FL 32772	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 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 could 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 could 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:

None of the ABB 50H relays purchased through the same purchase order as the relay that failed the bench test are installed at PINGP. ABB 50H relays currently installed in PINGP have undergone successful post-installation and periodic testing.

This type of relay is installed in ten locations at PINGP on the Unit 2 safety-related buses: 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 notified the supplier of the failed bench test by email on 8/6/2015 and returned the relay that failed the bench test to the supplier on 8/14/2015.

Post-installation and periodic testing of safety-related relays are currently performed and will continue.

The failed bench test has been entered into our Corrective Action Program. Additional corrective actions may be taken after the supplier has notified PINGP of the results of their evaluation.

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. Perform post-installation testing and periodic testing.

The supplier may have additional recommendations upon completion of their evaluation.

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

Not applicable.