

WISCONSIN PUBLIC SERVICE CORPORATION

Kewaunee Nuclear Power Plant

PLANT MODIFICATION/TEST PROCEDURE

NO. 1195-350

TITLE: 480V ALTERNATE FEEDER (CIRCUIT BREAKER 15212) FOR PRESSURIZER HEATER BACKUP GROUP 1A

DATE

PAGE

MWR # A0-21651

PREPARED BY Matthew R. Shemluck <sup>by DAD</sup>  
Fluor Engineers Inc. Power Division

DATE 3-22-83

Rev Date \_\_\_\_\_

PORC DHKT 83-39

DATE 4/25/83

TESTING ENGINEER

David A. Ozrowicz David A. Ozrowicz

(Signature)

(Printed)

DAD  
(Initials)

DATE 5-1-83

ENGINEERING RE

David J. Bistau

(Signature)

David J. Bistau

(Printed)

5/2/83  
Date

OPERATIONS SUPERINTENDENT

Clark Steinhardt CLARK STEINHARDT

(Signature)

(Printed)

5-2-83  
Date

PLANT MANAGER

DHKT

(Signature)

D.C. HINTZ

(Printed)

5/2/83  
Date

WISCONSIN PUBLIC SERVICE CORPORATION  
Kewaunee Nuclear Power Plant  
PLANT MODIFICATION/TEST PROCEDURE

NO. 1195-350  
480V ALTERNATE FEEDER (CIRCUIT  
TITLE: BREAKER 15212) FOR PRESSURIZER  
HEATER BACKUP GROUP 1A

DATE

PAGE 1 of 4

REVIEWED BY:  
AND REVISED BY:

David A. Ozarowicz

APPROVED BY \_\_\_\_\_

MWR # 40-21651

1.0 PURPOSE/PLANT INITIAL CONDITIONS

1.1 Purpose

This test is performed to ensure proper operation of 480V Alternate Feeder (Circuit Breaker 15212) for pressurizer heater backup group 1A.

1.2 Initial Conditions

1.2.1 Verify installation procedures 1195-049 and ~~349~~ are complete.

1.2.2 Verify bus 1-52 is energized.

DAO 4/28/83  
GEB 4/28/83  
Jmm 4-28-83  
DAO  
DAO

2.0 PRECAUTIONS

2.1 Kewaunee Nuclear Power Plant Tech Specs must be followed.

3.0 GENERAL INSTRUCTIONS

3.1 The following reference drawings should be available at time test is run:

3.1.1 Logics

237127A-E2039

3.1.2 Metering and Relaying/Circuit Diagrams

237127A-E219, E240, E262

3.1.3 Schematic Diagrams

237127A-E1085

3.1.4 Wiring Diagrams

237127A-E538, E553, E3139

3.2 Test Equipment

3.2.1 Phase rotation meter

3.2.2 Multimeter

DAO  
DAO

3.0 GENERAL INSTRUCTIONS (Cont.)

3.3 Test Overview

3.3.1 Alternate feeder for pressurizer heater backup group 1A will be cycled to verify 480V power is available at MCC 3352 and transfer switch RD116 will be cycled to verify proper operation. Phase rotation meter will be used to assure normal and alternate sources have the same rotation.

3.3.2 Test personnel should be stationed at MCC 3352 and the Control Room with communications established between them.

4.0 PROCEDURE

4.1 Shift Supervisor authorization to run pre-op test.

DAO

4.2 Test Setup

4.2.1 Trip all circuit breakers in MCC 1-3352.

DAO

4.2.2 Move the transfer switch RD116 to the alternate source position.

DAO

4.2.3 Obtain permission and have a Control Room Operator lift the following hold tags:

4.2.3.1 Control Room On/Off-PULLOUT control switch for Backup Group A Pressurizer Heaters Alternate Source Bus 1-52 Brkr. 15212.

DAO

4.2.3.2 Auxiliary Feedwater Area Panel Alternate Fdr. for Press. Htr. Backup Group 1A Breaker No. 15212.

4.2.3.3 At Circuit Breaker 15212.

DAO

4.2.4 Rack in Circuit Breaker 15212 if necessary.

DAO

4.3 Test

4.3.1 Turn the Control Room control switch for 480V alternate feeder for pressurizer heater backup group 1A to the on position.

DAO

4.3.2 At ground detector cabinet RD117 verify indicating lights for A, B, and C phases are lit.

DAO

4.3.3 Verify control room annunciator 4702245 does not alarm.

DAO

4.3.4 Verify the Normal/Alternate Indicator Lights mounted near the transfer switch RD116 is lit for Brkr. 1-5212.

DAO

4.0 PROCEDURE (Cont.)

4.3.5 Read and record bus voltages at MCC 3352.

ABØ 500 V  
ACØ 500 V  
BCØ 500 V  
DBØ

4.3.6 Verify all voltages read in step 4.3.5 are 480VAC±20V.

DBØ

4.3.7 Using a phase rotation meter read and record the phase rotation at MCC 3352.

Phase Rotation ABC

DBØ

QEP  
4/28/83  
Amir  
4-28-83

~~4.3.8 Verify this measured phase rotation is the same as the phase rotation measured in Retest procedure 1195-349 step 4.3.41.~~

N/A

4.3.9 Turn the Control Room control switch for 480V alternate feeder for pressurizer heater backup group 1A to the off position.

DBØ

4.3.10 Read and verify all bus voltages at MCC 3352 are zero volts AC.

ABØ 0 V  
ACØ 0 V  
BCØ 0 V  
DBØ

4.3.11 Verify the Normal/Alternate Indicator Light for Brkr. 1-5212, mounted near the transfer switch RD116 is not lit.

DBØ

4.3.12 Position transfer switch RD116 to the normal source position.

DBØ

4.3.13 Turn the Control Room control switch for 480V alternate feeder for pressurizer heater backup group 1A to the on position.

DBØ

4.3.14 Read, record and verify all voltages at MCC 3352 are 0 VAC.

ABØ 0 V  
ACØ 0 V  
BCØ 0 V  
DBØ

4.3.15 Turn the Control Room control switch for 480V alternate feeder for pressurizer heater backup group 1A to the off position.

DBØ

DBØ 4/28/83  
QEP  
4/28/83  
Amir  
4-28-83

4.3.16 Verify measured phase rotation is the same the phase rotation measured in Retest procedure 1195-349 step 4.3.41.

DBØ

Persons In Test

Signature	Print Name	Company/Title	Initials
<i>Richard P. Pulec</i>	RICHARD P. PULEC	WPS/REGULATORY SUPV	RPP
<i>David A. Ozarowicz</i>	David A. Ozarowicz	WPS/EE	DAO
<i>Brent E. Herald</i>	Brent E. Herald	WPS/ELECTRICIAN	BEH
<i>David L. Masarik</i>	DAVID L. MASARIK	WPS/SS	DLM
<i>Glenn W. Hoppe</i>	Glenn W. Hoppe	WPS/Shift Supv	GWH

Equipment Used

Type	Model Number	Serial Number
Phase Sequence Indicator	Model 45	90-700V 60cps 92029 K-406-2
Simpson 240mm multimeter	Model 240 series 4	92045

WISCONSIN PUBLIC SERVICE CORPORATION  
 Kewaunee Nuclear Power Plant  
 PLANT MODIFICATION/TEST PROCEDURES

NO. 1195-350  
 480V ALTERNATE FEEDER (CIRCUIT  
 TITLE: BREAKER 15212) FOR PRESSURIZER  
 HEATER BACKUP GROUP 1A

DATE: \_\_\_\_\_ PAGE 4 of 4

< 3.17 Procedure 1195-349 must be completed prior to continuing.

4.0 PROCEDURE (Cont.)

4.2/83  
 4.2/83  
 4.2/83

- 4.4 Obtain permission and have a control room operator lift the following Hold tags:
  - 4.4.1 Control room ON/AUTO/OFF control switch for pressurizer HTR Backup Group 1A.
  - 4.4.2 Auxiliary Feedwater Area Panel Normal Feeder for Pressurizer Heater Backup Group 1A Breaker No. 13304.
  - 4.4.3 At circuit breaker 13304.
- 4.5 Test Engineer review the procedure to assure complete.
- 4.6 Shift Supervisor acknowledgement of pre-op test completion. The 480V circuit breaker 15212, 13304 and pressurizer heaters backup group 1A 1-555 thru 1-560 are available for plant control.

DAO  
 DAO  
 DAO  
 DAO  
 GWH

SEE

APERTURE

CARDS

AVAILABILITY

PDR

CF

HOLD

NUMBERS OF PAGES.

12