

NUCLEAR POWER BUSINESS UNIT
INSTALLATION WORK PLANS

INSTALLATION OF NEW DC CONTROL POWER
TO 2B03 PER MR 96-022
UNIT 2

IWP 96-022-2

MINOR

IPTE

Revision 0

September 18, 1996

WO# 9607007

1.0 SCOPE

- 1.1 The scope of this IWP is to place into service the new DC Control feeder from D-31-12 to 2B03 previously installed per IWP 96-022-1.
- 1.2 The purpose of this IWP is to change the DC control power for 2B03 so it will be from the same system the bus supplies charging power to
- 1.3 The approach of this procedure is to establish proper equipment alignments, de-energize the existing DC Control power to 2B03, change the position of the Double Pole Double Throw (DPDT) DC Control Power switch so as to select the new feed, energize the new feed, and then test the new feed by operating several loads/manipulating several breakers.
- 1.4 The work under this IWP is QA scoped.
- 1.5 Support requirements.
 - 1.5.1 Operations: Prepare, install, and remove Danger Tags, provide proper plant alignments and support testing through switch manipulation as required.
 - 1.5.2 Maintenance: Verify adequacy of voltage after transfer, remove 2B03 undervoltage sensing relays, re-install 2B03 undervoltage sensing relays, and perform trouble shooting as required.

2.0 PRE-INSTALLATION REQUIREMENTS

2.1 References

✓ 2.1.1 Working Drawings

<u>Vendor</u>	<u>Drawing</u>	<u>Sheet</u>	<u>Revision</u>
Bech	E-6	1	29A1
Bech	E-6	2	7A1
Bech	E-91	5	19A1
Bech	E-2091	4	22A1
West	499B466	313	6A1

2.2 Pre-Installation Discussions

- 2.2.1 A pre-installation discussion with the installation group representative and the acceptance group representative has been performed.

PROJECT MANAGER

Date 18 OCT 96

- 2.2.2 A field walkdown has been performed, if necessary, to verify that all aspects of the IWP may be performed as intended.

PROJECT MANAGER

Date 18 OCT 96

2.3 Personnel Safety Concerns

- 2.3.1 Work will be performed on and near energized electrical equipment (e.g. D-11, D-31, and 2B03). Care shall be exercised to avoid any personnel injury and/or equipment actuation and/or damage.

Installation personnel are aware of the above listed safety concerns.

OPS SUPV

Date 10-18-96

MIN SUPV

Date 10-18-96

2.4 Identification of Work Areas

Work will be performed in the following areas:

- 2.4.1 8' elevation of North Auxiliary Building

- 2.4.2 Cable Spreading Room

2.5 Identification of Permits Required

The Work Order for this IWP has been written and submitted to CHAMPS. See the IWP cover sheet for the WO No.

2.6 Operational Installation Prerequisites

2.6.1 The plant conditions required are:

- a. Unit 2 de-fueled.
- b. EDG G-01 shall be in service on the 1A-05 bus.
- c. EDG G-02 shall be in service on the 2A-05 bus.
- d. The 2P-15A Safety Injection Pump shall be tagged out.
- e. The P-32F Service Water Pump shall be running.

2.6.2 Technical Specification Requirements:

De-energizing the DC Control Power to bus 2B03 will disable all automatic breaker closure and opening schemes for all breakers on the bus. To prevent an EDG overload on A Train in the event of a Loss of Offsite Power, both A Train EDG's shall be aligned to their normal buses and the Unit 2 A Train SI Pump shall be tagged out. Also, Service Water Pump P-32F shall be running to eliminate the need for entry into a Service Water LCO per DCS 3.1.7.

Other Technical Specification references:

Technical Specification Table 15.3.5-1 item 10b
Technical Specification Table 15.3.5-3 item 4b
Technical Specification 15.3.7

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- 2.6.3 Prepare a Danger Tag series for the below listed equipment. Do NOT hang the tags until instructed to do so in the installation section of this IWP.

NOTE: *Performance of the work as directed in this IWP will change the function of the DC breakers to be tagged out. Breaker D-31-12 will become the Normal feeder but the description given below is the existing function of the breaker. Additionally, breaker D-11-18 will become the Alternate feeder but the description given below is the existing function of the breaker.*

<u>Breaker</u>	<u>Description</u>	<u>Position</u>
D-11-18	Normal Control Power to 2B03	OPEN
D-31-12	Alternate Control Power to 2B03	OPEN
2A52-74	2P15A Feed Breaker	RACKED OUT/REMOVED

Record Danger Tag Series No. 222-124

- 2.6.4 Release for Installation

All the above Operational Prerequisites have been met and it is acceptable to proceed with the work of this IWP.

DSS _____ Date 10-18-96 Time 1155

3.0 INSTALLATION

NOTE: *The following steps must be performed in the order written unless specifically allowed otherwise within the body of this IWP or as approved by the Project Manager.*

FME NOTE: *Foreign Material Exclusion general practices are in effect per NP 8.4.10. All tools and equipment shall be checked for loose parts and debris and temporary covers should be installed on open systems or components as necessary.*

- 3.1 Danger Tag 2A52-74, 2P15A SI Pump Feeder Breaker in the racked out/removed position.

INITIALS

TOPS

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INITIALS

3.2 Close breaker D-31-12, Alternate Control Power to 2B03.

OPS 10/18/96

3.3 Verify the polarity on both sides of the Double Pole Double Throw DC Control Power selector knife switch is the same.

MTN 10/18/96

3.4 Danger Tag D-31-12, Alternate Control Power to 2B03, in the OPEN position.

OPS 10/18/96

3.5 Check C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" is CLEAR

MIN 10/18/96

3.6 Remove device 2-271/B03

MTN 10/18/96

3.7 Check C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" is CLEAR

MIN 10/18/96

NOTE: The following step will disable the 2B03 Undervoltage scheme to prevent inadvertent actuation.

3.8 Remove device 2-272/B03

MIN 10/18/96

3.9 Check C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" is CLEAR

MIN 10/18/96

3.10 Remove device 2-273/B03

MIN 10/18/96

3.11 Notify Unit 2 CO C02 F annunciator 4-1. "UNIT 2 COMMON CRITICAL CONTROL POWER FAILURE" will alarm.

OPS 10/18/96

3.12 Danger Tag D-11-18, Normal Control Power to 2B03, in the OPEN position.

NOTE: Control did not receive the unit 2 common critical control power failure alarm. K. Wagner to investigate and determine cause. 3010-18-96

OPS 10/18/96

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INITIALS

- 3.13 In bus 2B03, Cubicle 40, reposition the Double Pole Double Throw Control Power selector knife switch from the upper position to the lower position.

11/10/96
PS

- 3.14 In bus 2B03, Cubicle 40, ^{verify the force required to open} ~~perform a tug test on~~ the Double Pole Double Throw Control Power selector knife switch ^{is greater than 2 lbs.} ~~to verify its seismic adequacy~~ with the switch in the new lower position.

11/10/96
SQU
MTN

- 3.15 Relabel the Double Pole Double Throw Control Power selector knife switch positions to indicate the new Normal and Alternate positions.

11/10/96
MTN

NOTE: The following step will clear the Unit 2 Common Critical Control Power Failure Alarm on Main Control Board C-002, Window F-4-1. The Unit 2 Control Operator should be made aware of this.

- 3.16 Remove the Danger Tag on D-31-12, Alternate (Normal) Control Power to 2B03, and CLOSE the breaker.

11/10-18-96
OPS

PMT

- 3.17 Check C02 F annunciator 4-1, "UNIT 2 COMMON CRITICAL CONTROL POWER FAILURE" is CLEAR.

11/10/96
MTN

- 3.18 Install device 2-271/B03 into its case.

11/10/96
MTN

- 3.19 Check C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" is CLEAR

11/10/96
MTN

- 3.20 Notify Unit 2 CO C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" will ALARM

11/10/96
MTN

- 3.21 At device 2-271/B03, perform the following:

- 3.21.1 Check relay target RESET.

11/10/96
MTN

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INITIALS

3.21.2 Depress trip test button.

10/18/96
MTN

3.21.3 Check C02 F annunciator 2-7, "UNIT 2 480V BUS
UNDERVOLTAGE" in ALARM

10/18/96
MTN

3.21.4 Check relay target is TRIPPED.

10/18/96
MTN

3.21.5 Release trip test button.

10/18/96
MTN

JP
9-30-96

PMT

3.21.6 Check C02 F annunciator 2-7, "UNIT 2 480V BUS
UNDERVOLTAGE" is CLEAR.

10/18/96
MTN

3.21.7 Install plexiglas cover.

10/18/96
MTN

3.21.8 Push target reset.

10/18/96
MTN

JP
9-30-96

PMT

3.21.9 Check target has reset.

10/18/96
MTN

JP
9-30-96

PMT

3.21.10 Check TP-2, is 0 Vdc to GROUND.

10/18/96
MTN

JP
9-30-96

PMT

3.21.11 Check TP-3, is 0 Vdc to GROUND.

10/18/96
MTN

JP
9-30-96

PMT

3.21.12 Check TP-5, is 0 Vdc to GROUND.

10/18/96
MTN

JP
9-30-96

PMT

3.21.13 Check TP-6, is 0 Vdc to GROUND.

10/18/96
MTN

JP
9-30-96

PMT

3.21.14 Check meter against a known DC source

10/18/96
MTN

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INITIALS

3.22 Install device 2-272/B03 into its case.

10/18/96
MTN

3.23 Check C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" is CLEAR

10/18/96
MTN

3.24 Notify Unit 2 CO C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" will ALARM

10/18/96
MTN

3.25 At device 2-272/B03, perform the following:

3.25.1 Check relay target RESET.

MTN

3.25.2 Depress trip test button.

MTN

3.25.3 Check C02 F annunciator 2-7, "UNIT 2 480V BUS UNDERVOLTAGE" in ALARM

MTN

3.25.4 Check relay target is TRIPPED.

MTN

3.25.5 Release trip test button.

MTN

9-30-96

PMT
3.25.6

Check C02 F annunciator 2-7, "UNIT 2 480V BUS UNDERVOLTAGE" is CLEAR.

MTN

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UNIT 2

INITIALS

	3.25.7	Install plexiglas cover.	10/18/96 MTN
	3.25.8	Push target reset.	MTN
JP 9-30-96	<u>PMT</u> 3.25.9	Check target has reset.	MTN
JP 9-30-96	<u>PMT</u> 3.25.10	Check TP-2, is 0 Vdc to GROUND.	MTN
JP 9-30-96	<u>PMT</u> 3.25.11	Check TP-3, is 0 Vdc to GROUND.	MTN
JP 9-30-96	<u>PMT</u> 3.25.12	Check TP-5, is 0 Vdc to GROUND.	MTN
JP 9-30-96	<u>PMT</u> 3.25.13	Check TP-6, is 0 Vdc to GROUND.	MTN
JP 9-30-96	<u>PMT</u> 3.25.14	Check meter against a known DC source	MTN
	3.26	Install device 2-273/B03 into its case.	MTN
	3.27	Check C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" is CLEAR	MTN
	3.28	Notify Unit 2 CO C02 F annunciator 2-7, "UNIT 2 480 V BUS UNDERVOLTAGE" will ALARM	MTN

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INITIALS

3.29 At device 2-273/B03, perform the following:

3.29.1 Check relay target RESET.

MTN ^{10/15/96}

3.29.2 Depress trip test button.

MTN

3.29.3 Check C02 F annunciator 2-7, "UNIT 2 480V BUS
UNDERVOLTAGE" in ALARM

MIN

3.29.4 Check relay target is TRIPPED.

MTN

3.29.5 Release trip test button.

MTN

JB
9-30-96

PMT

3.29.6 Check C02 F annunciator 2-7, "UNIT 2 480V BUS
UNDERVOLTAGE" is CLEAR.

MTN

3.29.7 Install plexiglas cover.

MTN

3.29.8 Push target reset.

MIN

JB
9-30-96

PMT

3.29.9 Check target has reset.

MTN

JB
9-30-96

PMT

3.29.10 Check TP-2, is 0 Vdc to GROUND.

MTN

JB
9-30-96

PMT

3.29.11 Check TP-3, is 0 Vdc to GROUND.

MIN

JB
9-30-96

PMT

3.29.12 Check TP-5, is 0 Vdc to GROUND.

MTN

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9-30-96 PMT
3.29.13

Check TP-6, is 0 Vdc to GROUND.

INITIALS *9-30-96*

10/18/96
MIN

9-30-96 PMT
3.29.14

Check meter against a known DC source

10/18/96
MIN

9-30-96 PMT
3.30

Verify the adequacy of the new DC Control Power feed to the 2B03 bus by cycling any two breakers on 2B03, one at a time. Each of two breakers shall be cycled at least one full cycle.

10/18/96
MIN

3.31 Remove the Danger Tag on D-11-18 and place in the OPEN position.

10-18-96
OrS

3.32 Remove the Danger Tag on 2A52-74 and place in the position as directed by the DSS.

10/18/96
MIN

3.33 Installation Complete

3.33.1 The QC requirements of this installation have been completed.

QC Inspector: _____

Date: *10-18-96*

3.33.2 As-Built Description

QC STEPS IN IWP.

This IWP was installed by: _____

Date: *10/18/96*

The installation was performed in accordance with this IWP and drawings (list any differences from the reference drawings):

ECR(s) No.

CR (s) No. *NOT NUMBERED BUT WRITTEN FACT THAT U-2 COMMON CRITICAL ENCL FOR ALARM (WINDOW CO2 F 4-1) NOT REC'D AS EXPECTED IN STEPS 3.11 & 3.12.*

Other considerations:

Attach any additional documentation of the as-built description to this IWP.

3.33.3 List all calibrated equipment used during installation of this modification in the WO.

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3.33.4 Record QAR numbers in the WO.

3.33.5 The installation and testing of this IWP is complete.

RE: _____ Date 18 OCT 96
OPS SUPV _____ Date 10/18/96

4.0 TESTING

4.1 Testing Information

4.1.1 All required post maintenance testing was performed within the Installation portion of this IWP. This testing includes checking proper polarity and cycling two breakers. Additionally, the new cable was connected and load tested per IWP 96-022-1. No further testing is required.

4.2 Testing Results

4.2.1 The testing of the installation is complete and the results are described below:

AS EXPECTED / DESCRIBED IN BODY OF IWP. PULLOUT /
OPENING FORCE MEASURED ON DPDT SW IN LOWER POSITION
(NEW NORMAL) WAS 6.4 LBS.

4.2.2 Attach any additional testing documentation to this IWP.

4.2.3 List all calibrated equipment used during testing of this modification in the WO.

4.2.4 The testing is completed and adequately tests the modification and the associated installation.

F: _____ Date 18 OCT 96
DSS: _____ at 10-18-96 Time 1825

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5.0 RESTORATION

5.1 Pre-Acceptance

5.1.1 The following items need to be completed prior to acceptance:

- a. Updates to Control Room Master Data Book for D-31-12 and D-11-18. *D-13 Bkr 18*
- b. Updates to Westinghouse drawing 499B466 Sh. 313.
- c. Temporary changes made to the panel directories for D-31-12 and D-11-18.
- d. All ECR's have final approvals.

All items that need to be completed prior to acceptance have been completed.

RE *10*

Date 18 OCT 96

5.2 System Restoration

5.2.1 Close out all remaining tagouts and permits for this IWP.

5.2.2 Realign system as required for normal operations per DSS.
System ready for release.

DSS *✓*

W Date 10-18-96 Time 1824

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6.0 ACCEPTANCE

6.1 Conditional Acceptance

- 6.1.1 The following items can-not be accepted and require resolution of the listed conditions. Interim conditions are also listed below (attach additional documentation as necessary):

6.1.2 Concurrence with Conditional Acceptance

Mgr of OPS or DSS NA R Date 1-3-97

6.2 Final Acceptance

This installation and the associated modification have been installed and tested and are acceptable.

Mgr of OPS or DSS _____ Date 10/18/96

Return completed IWP and modification to responsible engineer

**POINT BEACH NUCLEAR PLANT
TEMPORARY CHANGE REVIEW AND APPROVAL**

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NOTE: REFER TO PROCEDURE NP 1.2.3 FOR GUIDANCE TO COMPLETE THIS FORM.

1. DOC NUMBER/TITLE IWP 96-022-2
2. Revision Number/Date 0 9-18-96
3. UNIT: ☐ PB1 ☒ PB2 ☐ PB0
4. Temporary Change Initiated By: _____ Date 9-30-96
5. If the procedure is of a non-signoff type, list affected manual locations on form PBF-0026h and attach.
6. List the changes, including step number, change, and reason. This shall be done on form PBF-0026c (Procedure Review and Approval Continuation Sheet). Attach the changes to this form.

Form Designation

(circle one)

NOTE: Copy original TCRA form prior to completing designation.

NOTE: See back for routing information.

Form No

Use

- | | |
|----|--------------------------------|
| 1. | Review and Approval |
| 2. | Group Tracking |
| 3. | Work/Record |
| 4. | Nuclear Information Management |
| 5. | Owner _____ |

REQUIREMENTS

1. The procedure changes initiated by this form do not change the intent of the procedure.
 2. Is screening for 10 CFR 50.59 or 72.48 applicability required in accordance with NP 10.3.1. If YES, attach applicable portions of form PBF-1515.
If NO, explain: ADMINISTRATIVE TYPE CHANGES
 3. Temporary Change Valid Until WORK COMPLETED (12-31-96)
 4. Temporary change duration greater than 7 days? ☒ Yes ☐ No
- NOTE:** Tracking not required for special test procedures such as PBTPs, IWPs, SMPs, ICF 11 Series. Operations 40-month tests and 10-year tests are also special test procedures.
5. If yes, then temporary change tracking has been placed into effect. _____ Initials _____ Date _____
 6. If this procedure change implements a temporary change/modification to the facility, then a temporary modification form PBF-1545 shall be completed as described in NP-7.3.1.
 7. If other groups have procedures which may be affected by these changes, then notification shall be made. Groups/Individuals notified: N/A
 8. Should a Permanent Procedure Change be considered? ☐ Yes ☒ No

APPROVAL PRIOR TO USE

- NOTES:**
- (1) The initiator and the approver shall not be the same person.
 - (2) If a 10CFR 50.59 screening determines that a safety evaluation is required, then this temporary change shall not be used until the subsequent reviews and approvals have been obtained.

Cognizant Group Head for non-Operations MAJOR PROCEDURES
Cognizant Supervisor for non-Operations MINOR PROCEDURES
DSS for all OPERATIONS PROCEDURES
Security Supervisor for SECURITY PLAN IMPLEMENTING PROCEDURES

Duty & Call Superintendent (For MAJOR Procedures ONLY)
Plant Manager (For SECURITY PLAN IMPLEMENTING Procedures ONLY)

SUBSEQUENT REVIEW AND APPROVAL

MAJOR	Manager's Supervisory Staff Review** _____ Date _____ (For the MSS)	MSSM _____ _____ Date _____ PBNP Manager Approval
**Form PBF-0026d shall accompany this sheet if : trial review and approval was conducted.		
MINOR	_____ Date _____ Cognizant Group Head	
NNSR, SPECIAL PROCESS, ADMIN SECURITY, CONTROLLED REFERENCE	_____ Date _____ Cognizant Group Head	_____ Date _____ PBNP Manager Approval (If Required)
	_____ Date _____ Other Approval (If Required)	_____ Date _____ Other Approval (If Required)

JAN 14 1997

NUCLEAR POWER DEPARTMENT
PROCEDURE REVIEW AND APPROVAL CONTINUATION SHEET

PROCEDURE IWP 96-022-2

Revision C Date 9-18-96

DESCRIBE CHANGES (Continued)

Step Change/Reason

3.17 ADDED PMT IDENTIFIER

3.21.6

3.21.9 - 3.21.14

3.25.6

3.25.9 - 3.25.14

3.29.6

3.29.9 - 3.29.14

3.30

DESCRIBE DESIRED TRAINING OR REQUIRED READING, INCLUDING RESPONSIBLE GROUP (if applicable):

TRAINING CONTACT:

(Contact training representative if formal training or required reading is checked on PBF-0026a).

Initials _____

**POINT BEACH NUCLEAR PLANT
TEMPORARY CHANGE REVIEW AND APPROVAL**

Page 1 of _____

NOTE: REFER TO PROCEDURE NP 1.2.3 FOR GUIDANCE TO COMPLETE THIS FORM.

- DOC NUMBER/TITLE IWP 96-022-2 (CHANGE 1)
- Revision Number/Date 0 18 SEP 96
- UNIT: ☐ PB1 ☒ PB2 ☐ P'
- Temporary Change Initiated By, _____ Date 18 OCT 96
- If the procedure is of a non-signoff type, list affected manual locations on form PBF-0026h and attach.
- List the changes, including step number, change, and reason. This shall be done on form PBF-0026c (Procedure Review and Approval Continuation Sheet). Attach the changes to this form.

REQUIREMENTS

- The procedure changes initiated by this form do not change the intent of the procedure.
 - Is screening for 10 CFR 50.59 or 72.48 applicability required in accordance with NP 10.3.1. If YES, attach applicable portions of form PBF-1515.
If NO, explain: CHANGE ONLY IN METHOD OF SEISMIC ADEQUACY VERIFICATION, (MEASURE VS. TUG) SWITCH OPENS IN EITHER METHOD
 - Temporary Change Valid Until PROCEDURE COMPLETION
 - Temporary change duration greater than 7 days? ☐ Yes ☒ No
- NOTE:** Tracking not required for special test procedures such as PBTPs, IWPs, SMPs, ICP 11 Series. Operations 40-month tests and 10-year tests are also special test procedures.
- If yes, then temporary change tracking has been placed into effect. _____ Initials N/A Date _____
 - If this procedure change implements a temporary change/modification to the facility, then a temporary modification form PBF-1545 shall be completed as described in NP-7.3.1.
 - If other groups have procedures which may be affected by these changes, then notification shall be made. Groups/Individuals notified: N/A
 - Should a Permanent Procedure Change be considered? ☐ Yes ☒ No

APPROVAL PRIOR TO USE

- NOTES:** (1) The initiator and the approver shall not be the same person.
(2) If a 10CFR 50.59 screening determines that a safety evaluation is required, then this temporary change shall not be used until the subsequent reviews and approvals have been obtained.

Date 18 OCT 96 _____ Date _____ Time _____

Cognizant Group Head for non-Operations **MAJOR PROCEDURES** _____ Duty & Call Superintendent (For **MAJOR** Procedures ONLY)
Cognizant Supervisor for non-Operations **MINOR PROCEDURES** _____ Plant Manager (For **SECURITY PLAN IMPLEMENTING** Procedures ONLY)
DSS for all **OPERATIONS PROCEDURES** _____
Security Supervisor for **SECURITY PLAN IMPLEMENTING PROCEDURES** _____

SUBSEQUENT REVIEW AND APPROVAL

MAJOR	Manager's Supervisory Staff Review** _____ Date _____ (For the MSSM)	MSSM _____ _____ Date _____ PBNP Manager Approval
	**Form PBF-0026d shall accompany this sheet if serial review and approval was conducted.	
MINOR	Date <u>18 OCT 96</u> _____ Cognizant Group Head	
NNSR, SPECIAL PROCESS, ADMIN SECURITY, CONTROLLED REFERENCE	_____ Date _____ Cognizant Group Head	_____ Date _____ PBNP Manager Approval (If Required)
	_____ Date _____ Other Approval (If Required)	_____ Date _____ Other Approval (If Required)

Form Designation
(circle one)

NOTE: Copy original TCRA form prior to completing designation.

NOTE: See back for routing information.

Form No	Use
1.	Review and Approval
2.	Group Tracking
3.	Work/Record
4.	Nuclear Information Management
5.	Owner _____

PROCEDURE IWP 96-022-2 (CHANGE 1)

Revision 0 Date 18 SEP 96

Step	Change/Reason
------	---------------

3.14 CHANGE FROM PERFORMING TUG TEST TO MEASURING ACTUAL PULLOUT FORCE
FOR SEISMIC ADEQUACY VERIFICATION & ADD ACCEPTANCE CRITERIA OF 721bs
PER CALC 90-021.

DESCRIBE DESIRED TRAINING OR REQUIRED READING, INCLUDING RESPONSIBLE GROUP (if applicable):

N/A

TRAINING CONTACT:

N/A

(Contact training representative if formal training or required reading is checked on PBF-0026a)

Initials

NUCLEAR POWER DEPARTMENT
SAFETY EVALUATION REPORT

SER _____
Page 1

Title of Proposed Modification,
Procedure Change, Test or Experiment:

IWP 96-022-2 CHANGE 1

Reference Document(s) #:

CALCULATION 90-021

Prepared By: _____

Date: 18 OCT 96

Reviewed By: / _____

Date: 18 OCT 96

Reviewed by Multidisciplinary Review Team:

1. _____

Date: _____

2. _____

Date: _____

Date: _____

MSS Review/Date: _____

MSS #: _____

Manager - PBNP Approval: _____

Date: _____

In lieu of MSS and Manager signature, attach PBF-0026d if serial review has been conducted. (MSS and manager approvals are not necessary for a determination of non-applicability.)

Section 1

Screening - Determination if Safety Evaluation is Required

- A. Describe the modification, procedure change, test, or experiment and its expected effects. Include interim configurations or conditions.

REVISE STEP 3.14 FROM PERFORMING A TUG TEST TO MEASURING ACTUAL PULLOUT FORCE FOR SEISMIC ADEQUACY VERIFICATION & ADD ACCEPTANCE CRITERIA OF ≥ 2.165 PER CALL 90-021.

- B. List the FSAR sections or VSC-24-SAR sections where the system, structure, component, procedure, test or experiment is described.

FSAR SECTION 8

- C. Does the change, test or experiment involve a change in the Technical Specification?
If a change is required, briefly describe what the change should be and why it is required.
NOTE: NRC approval is required prior to implementation.

☐ Yes ☒ No

- D. Screening for 10 CFR 50.59 and 10 CFR 72.48 Applicability:

1. 10 CFR 50.59 Screening:

- a. Will any system, structure or component (SSC) described in the PBNP FSAR, including its figures, be altered? (Refer to NP 10.3.1, step 3.1.2 for exception. This question may be answered "no" although the SSC is described in the PBNP FSAR.)

☐ Yes ☒ No

NUCLEAR POWER DEPARTMENT
SAFETY EVALUATION REPORT

SER _____
Page 2

Section 1 - Continuation

- b. Could, within reasonable possibility, the proposed change affect the intended design, operation, function, or method of function, of an SSC important to safety which is described in the PBNP FSAR? (This includes interim conditions.) ☐ Yes ☒ No
- c. Will any procedure described in the PBNP FSAR be altered? (Refer to NP 10.3.1, Attachment A, Part E, for guidance.) ☐ Yes ☒ No
- d. Will a test or experiment be performed which is not described in the PBNP FSAR and affects the design, operation, function, or method of function, of an SSC important to safety which is described in the PBNP FSAR? ☐ Yes ☒ No
- e. Will implementation affect a prior documented regulatory commitment to the NRC pertaining to the design, operation, function, or method of function, of an SSC important to safety which is described in the PBNP FSAR? ☐ Yes ☒ No
- f. Is a 10 CFR 50.59 evaluation required (are any of the above questions answered yes)? ☐ Yes ☒ No

*NOTE: If no, then provide basis for decision in Part D.
If yes, complete Sections 2 and 3.*

2. 10 CFR 72.48 Screening for the Independent Spent Fuel Storage Installation (ISFSI):

- a. Will any system, structure, or component (SSC) described in the ISFSI Licensing Basis document, including its figures, be altered? (Refer to Step 3.1.2 for exception. This question may be answered "no" although the SSC is described in the ISFSI Licensing Basis documents.) ☐ Yes ☒ No
- b. Could, within reasonable possibility, the proposed change affect the intended design, operation, function, or method of function, of an SSC important to safety which is described in the ISFSI Licensing Basis documents? (This includes interim conditions.) ☐ Yes ☒ No
- c. Will any procedures described in the ISFSI Licensing Basis documents be altered? ☐ Yes ☒ No
- d. Will a test or experiment be performed which is not described in the ISFSI Licensing Basis documents and affects the design, operation, function, or method of function, of an SSC important to safety which is described in the ISFSI Licensing Basis documents? ☐ Yes ☒ No
- e. Will implementation affect a prior documented regulatory commitment to the NRC pertaining to the design, operation, function, or method of function, of an SSC important to safety which is described in the ISFSI Licensing Basis documents? ☐ Yes ☒ No
- f. Is a 10 CFR 72.48 evaluation required (are any of the above questions answered yes)? ☐ Yes ☒ No

*NOTE: If no, then provide basis for decision in Part D.
If yes, complete Sections 4 and 5.*

D. Basis for determination that a safety evaluation is not required:

THE ONLY CHANGE IS THE METHOD TO VERIFY MECHANICAL Adequacy OF SWITCHES NEW POSITION. THE NEW METHOD IS QUANTITATIVE VS. THE OLD QUALITATIVE METHOD. CALCULATION 90-021 PROVIDES BASIS FOR QUANTITATIVE ACCEPTANCE CRITERIA. BOTH METHODS REQUIRE OPENING THE SWITCH WHICH WILL BE DE-ENERGIZED THEREBY NOT AFFECTING ANY OPERATING EQUIPMENT.

INSTALLATION WORK PLAN

PBNP MINOR PROCEDURE ☒Check As
ApplicableMAINTENANCE WORK REQUEST WORK PLAN ☐FOR MODIFICATION# 96-022, MWR# 9607007

INSTALLATION WORK PLAN TITLE

INSTALLATION OF NEW DC CONTROL POWER TO 2B03 PER MR 96-022UNIT 2☒ QA-SCOPE☐ NON QA-SCOPEOriginator [Signature]Date 31 JUL 96Reviewer [Signature]Date 8-26-96Final Design
Group Head [Signature]Date 26 AUG 96Quality Engineer [Signature]Date 8/24/96Installation
Group Head [Signature]Date 8/26/96Manager - [Signature]
Operations or DSSDate 8/27/96

NOTE: Changes to this work plan must be done with the concurrence of the responsible or team engineer and the installation supervisor, or as delineated within the IWP.

NEW DOCUMENT AND DOCUMENT REVISION - REVIEW & APPROVAL FORM

Page 1 of

Doc. Number IWP 96-022-2 Unit P52 Rev 0 Date SEP 18 1996 (— Staff Services to fill in)Doc. Title INSTALLATION OF NEW DC CONTROL POWER TO 2803 PER MR 96-022INITIATION/CHANGE MSS Review Summary For procedures only — Classification MINOR Usage Level

Step Describe Change/Reason

New proceduremtk 08/29/96

- Yes No NA Temporary Changes Incorporated: ☐ Yes ☐ No ☒ NA Use PBF-0026c for additional description of changes.
- ☒ ☐ ☐ Is screening for 10 CFR 50.59 or 72.48 applicability required per NP 10.3.1? If yes, attach applicable portions of form PBF-1515. If no, explain: _____
- ☒ ☐ ☐ Is screening for infrequently performed tests or evolutions (NP 1.2.6) required? If yes, attach form PBF-0026j.
- ☐ ☒ ☐ Does this procedure change implement a temporary modification? If yes, attach form PBF-1545 as described in NP 7.3.1.
- ☐ ☒ ☐ Is training/reading/info message required due to changes? If yes, describe training or required reading on form PBF-0026c and attach. If yes, originator send a copy of PBF-0026a and PBF-0026c to training group.
- What is required: ☐ Formal Training ☐ Required Reading ☐ Informational message
- When is it required: ☐ Prior to Issue ☐ After Issued
- ☐ ☒ ☐ Does procedure (Rev 0) or this change initiate or affect voluntary LCO entry? If yes, attach form PBF-9133.
- ☐ ☒ ☐ Does this revision constitute a periodic review as described in NP 1.1.5?
- ☐ ☒ ☐ Do equipment record files need to be updated, i.e., ASME XI or group procedure fields? If yes, route equipment record changes to CHAMPS.

Originator(s)

Date 26 AUG 96

Technical Review (Person from cognizant group/s)

Date 8-26-96

Date

Date 8-29-96Date 17 SEP 96

Date

Review

Other Review (if required)

Date

Date

Training/Reading/Info Message Complete (when required prior to issue)

Periodic Review - No Changes/Group Head

APPROVALS

MAJOR

Mandated Supervisory Staff Review *

MSSM

196-12

Date 8/29/96

MINOR, Rev 0

(For the MSSM)

—PBF-0026d must accompany this sheet if serial review and approval was conducted.

MINOR

Operating/Other Procedures

RMPs/SMPs

Date

Operations Manager

Date

Manager - Maintenance

Date

Cognizant Group Head

Date

Group Head Approval

Date

PBNP Manager Approval (If Required)

Date

Other Approval (If Required)

Date

Other Approval (If Required)

NNSR/SPECIAL
PROCESS

MS

CONT REF DOC

POINT BEACH NUCLEAR PLANT

INFREQUENTLY PERFORMED TEST/EVOLUTION SCREENING

PROCEDURE
NUMBER AND

NAME IWP 96-022-2, INSTALLATION OF NEW DC CONTROL POWER TO 2302
PER MR 96-022

REV. NO. 0

YES NO

1. Does the activity described by the procedure involve any action which has the potential to significantly degrade the margin of safety such as:

NOTE: ANSWERING YES TO ANY OF THE FOLLOWING QUESTIONS MAY WARRANT CLASSIFICATION AS IPTE.

- Causing an impact on reactor coolant system inventory, reactor cavity water level or decay heat removal capability? ☐ YES ☒ NO
- Negatively impacting reactivity control or reactor shutdown capability? ☐ YES ☒ NO
- Either degrading containment or reactor coolant system integrity? ☐ YES ☒ NO
- Compromising reactor vessel or other critical RCS component integrity, e.g., can it result in a violation of temperature/pressure limits, or heatup/cooldown rate limits? ☐ YES ☒ NO
- Involving complicated sequencing or placement of the plant in an unusual configuration? ☒ YES ☐ NO
- Resulting in severe economic, availability or reliability consequences? ☐ YES ☒ NO

2. Are there any characteristics of the activity described by this procedure that cause it to be unique such that a significant increased risk warrants classification as IPTE?

NOTE: ANSWERING YES TO ANY OF THE FOLLOWING QUESTIONS DOES NOT, IN ITSELF, NECESSARILY WARRANT CLASSIFICATION AS IPTE, PARTICULARLY IF IPTE PROVISIONS DESCRIBED BY NP 1.2.6 HAVE ALREADY BEEN FACTORED INTO THE DOCUMENT.

- Is this the first time the activity is being performed? ☒ YES ☐ NO
- Are timely and accurate communications critical to its successful completion? ☒ YES ☐ NO
- Is the coordination or number of personnel involved in the activity critical to its successful completion? ☐ YES ☒ NO

Classification as IPTE

☒ YES ☐ NO

If this activity has been classified as an IPTE, check the management controls which should be implemented:

NOTE: IMPLEMENTATION REQUIREMENTS FOR THESE MANAGEMENT CONTROLS ARE DETAILED IN NP 1.2.6, "INFREQUENTLY PERFORMED TESTS OR EVOLUTIONS (IPTEs)."

- Senior Line Manager Briefing ☐ YES ☒ NO
- Test/Evolution Coordinator ☒ YES ☐ NO
- Additional Shift Support Personnel ☐ YES ☒ NO
- Activity Validation Prior to Use ☐ YES ☒ NO
- Training Prior to Use ☐ YES ☒ NO

3. Is this a multi-disciplinary procedure?

If yes, list co-owners(s) OPS, MTN

☒ YES ☐ NO

Comments:

Screened By:

Date: 26 AUG 96

Reviewed By:

Date: 28-26-96

Accepted By:

Date: 26 AUG 96

Group Head

7/29/96

or the MSS

MSSMF: 96-12

#47

WCC TRACKING

DSS

82

ORIGINAL *****
 WD Priority: M * UNIT 2 * MWD * UNIT 2 *
 Resp Group: MTN ***** HEADER PAGE *****
 Equipment: C-004 System: MMS HP Zone
 Equipment Name: REACTOR AND CVCS CONTROL BOARD
 Physical Location: 44/CB/CR Discovery Date: 08/05/96

Problem Description:
 ADD SUPPORT TO RACEWAY BETWEEN RISERS 56 AND 62.

Originator: WAGNER, KIP CSE Outage ID: U2R22 Activity: 8409
 Tag/Sticker Placed: N No: 100126 Tag/Sticker Lctn:
 Job Type: MODIFICATION SUPPORT Project ID: Condition Report:
 Work Function: WORK ORDER
 Mod Req #: 94 - 055

=====

QA: Y	SEIS: 1	Operability Pre-Test: N	Procedures:
SR: Y	LCO: N		
EQ: N	PMT: Y	Operability Post-Test: N	Procedures:
SSA: Y	CIV: N	MRULE: Y	
A/P:	CACC:		
RRN:			Tech Spec Ref:
QA Codes: 26		Sect XI Class:	
Tools Needed:			

=====

Work Plan/Instructions reviewed. Plann: 1. HAMBLIN, RICH CON
 LINE SUPERVISOR: 21 NAME: 2 DATE: 11/3/96
 =====

Plant Conditions: REFUELING	Ignition Control Permit: N
Other Conditions:	Transient Combustible Permit: N
Fire Barrier Penetration Permit: N	RWP: N
Equipment Isolation Required: N	FME: Y
Isolation Tag Series #:	

Operability Pre-Test Complete. _____ Equipment Isolation as requested. _____
 Permission granted to perform Work. _____
 Ops DSS Notification Req: Y Ops DSS Signature: _____ Date: 10/31/96
 =====

Special Notification:

Number of Steps: 001
 Acct #: 00 - 0000N - 9500261 - 00000
 MFG Code: WOLFEM Tech Manual Cntl #: 00132
 =====

* WORK ORDER CLOSEOUT *

=====

Group Head Signature: _____ Date: 11/21/96
 =====

JAN 1 1997

DEC 17 1996

#47

ORIGINAL ***** PBNP ***** NO No: 9608223001
WO Priority: M * UNIT 2 * MWD * UNIT 2 *
Resp Group: MTN ***** STEP DETAIL ***** Step Print: 10/30/96
Equipment: C-004 System: MMS HP Zone
Equipment Name: REACTOR AND CVCS CONTROL BOARD
Physical Location: 44/CB/CR
Sequence No: 01
Short Desc: ADD SUPPORT TO RACEWAY

Need Date

Sched Start Date

PLANNED:

WORK PROCEDURES:

Crew: ME

Shift: 2

Class: 420

Work Plan Description:

INSTALL SUPPORT FOR RACEWAY BETWEEN RISERS 56 AND 62 IN 2C04 USING
ATTACHED WORK PLAN (IWP 94-055) FOR DETAILED INSTRUCTIONS.
ALL QC, FME, AND PMT ADDRESSED IN ATTACHED WORK PLAN.

QC REVIEW REQUIRED: Y SKARVAN, KEITH MTN S DATE: 103096

WORK PERFORMED: *Installed Support in 2C04 as per Work Plan*
94-055 Needs inspection

MTE:

QARY QA 1949-902-2572

✓ QA 12629-902-2724

✓ QA 12656-901-7038

✓ QA 1402-903-0596

✓ QA 10463-903-0386

ACTUAL USED:

CREW:

SHIFT:

WORKER CLASS:

Y 20

NUMBER OF WORKERS:

2

TOTAL HOURS:

2.9

TTL EXPOSURE/STEP (MREM)

PARTS USED LIST ATTACHED: Y / ☒WO TAGS REMOVED: Y / N / ☒

EMPLOYEE NUMBER: 1111

WORK COMPLETE DATE: 11/6/96

EMPLOYEE NAME:

* WORK COMPLETED *

Cause Failure Code: FM / ☒ SVD / NRM /As Found-Out of Spec: Y / N / ☒ NA Machine History Review Required: Y / N

Failed Component: NA

Corrective Action: ☒ NA / RP / RE /

LINE SUPERVISOR: 1111

NAME:

Downtime: hrs

DATE: 11/13/96

* EQUIPMENT RETURN TO SERVICE *

Operability Post Testing: *SQUG worked*

EQUIP. TAKEN OOS - DATE: / / TIME: RTN DATE: / / TIME:

Operability Procs Performed

NON OPS SUPV: 1111 NAME:

DATE: 11/13/96

DSS: 1111 NAME:

DATE: 11/13/96

IWP NUMBER: 94-055

#47

Page ____ of ____

INSTALLATION WORK PLAN

PBNP MINOR PROCEDURE ☐

Check As
Applicable

MAINTENANCE WORK REQUEST WORK PLAN ☒

FOR MODIFICATION# 94-055

W/O #

MWR# 9608223

INSTALLATION WORK PLAN TITLE

UNIT 2

☒ QA-SCOPE

☐ NON QA-SCOPE

Originator

Date 8 OCT 96

Reviewer

Date 10-14-96

Final Design

Group Head

Date 10-14-96

Quality Engineer

Date 10/28/96

Installation

Group Head

Date 10/28/96

Manager -

Operations or DSO

Date 10/22/96

NOTE: Changes to this work plan must be done with the concurrence of the responsible or team engineer and the installation supervisor, or as delineated within the IWP.

DG-G02.5
Revision 0

JAN 14 1997