WO WORK PLAN

Removal/Replacement of breakers 1Y-06-03 WO9612057

UNIT 1 February 27, 1997

1.0 PURPOSE

This WO work plan provides direction for the removal of breaker 1Y-06-03 and replacement with Westinghouse EHD 1015 15 amp breaker.

2.0 PRECAUTION AND LIMITATIONS

1. Steam Generator Blowdown is required to be secured due to control valves failing shut,

2. The soleniod valve for service water to Steam Driven Aux Feed pump 1P-29 bearings will fail open. This is not an LCO and is acceptable for a short period of time.

3. Both P-116s need to be secured during breaker changeout.

4. There will be no alarm function for condenser vacumn. Therefore, vacumn should be monitored.

3.0 INITIAL CONDITIONS

1. Reactor is offline.

2. Verify loads listed in Return to service step 16 can be taken OOS.

3. Permission has been granted to remove/replace breakers 1Y-06-03.

4. Condenser vacumn alarm may come in if not in alarm.

4.0 ATTACHMENTS

4.1 Maintenance Electrical Safety Checklist, PBF-9044 form

4.2 Wire Removal Form, PBF-0036

5.0 REFERENCE DRAWINGS

Bechtel 6118 E-61 sh 2
Westinghouse Elementary drawings 826,and 1593

6.0 MATERIALS

Westinghouse EHD 1015 breaker (Quantity 1)

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Hold Point	Step No.	Work Plan Description	Worker	Date
NOTE		*Breaker 1Y-06-03 provide power to MOBs 91, 123-126(210-213), 128, and 129.*		
	1	Verify initial conditions have been met.	OPS	2/28/97
CAUTION		**ALL COMPONENTS AND TERMINALS LOCATED IN THE PANEL ARE ASSUMED TO BE ENERGIZED, TAKE NECESSARY PRECAUTIONS.**		
FME:		General FME Statement: Tools and equipment shall be checked for loose parts and debris and temporary covers should be installed for foriegn material exclusion (FME) of system/components, per Exclusion of Foreign Material from Plant Components and systems, NP 8.4.10.		
	2	Responsible Engineer to perform a pre-job briefing with all workers to include scope of project, personnel safety, electrical safety checklist, and installation.	RE	2-28-97
	3	Prior to installing the replacement breakers, cycle breakers five times per the following directions; 1. Close breaker 2. Trip breaker using the trip to test button(red) on breaker. 3. Open breaker. 4. Use continuity checks to verify proper positioning of breaker contact on final cycle (closed, trip free, and open. Acceptance Criteria: Closed ≤ 1 ohm / Open > 1 Mohm MTE MCMM Calibration Due Date 2 98	MTN	2-28-97
	4	Verify that breaker 1Y-06-03 is in the "OFF" position **OR** coordinate with OPS to place breaker 1Y-06-03 in "OFF".	MTN	2-28-97
	5	Remove (if required) 1Y-06 panel cover. Post panel with appropriate "Danger alive" placards and/or barricades as required.	MTN	2-28-97
	6	Record wires removed on PB-0036 Wire Removal Form, then disconnect wiring from breakers 1Y-06-03.	MTN	2-28-97
	7	Remove breaker 1Y-06-03 from panel.	MTN	2-28-97
	8	Install the replacement Westinghouse EHD 1015 breakers in 1Y-06-03. Bolt Size #8 #10 1/4" Torque Value (in/lbs) 20 20 65 MTE MCTS-5 Calibration Due Date 2-97	MTN	2-28-97
	9	Reconnect leads using attached PBF-0036 Wire Removal Form.	MTN	2-28-97

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	10	Torque the load side leads per the following step. For breakers with capture wire connections, determine the wire size of the leads connected to the breaker and torque per the following table: **Wire Size** **#14 to #10** **#8** **#6 to #4** Torque Value (in/lbs) 20 20 20 Record torque wrench MTE number and calibration date on the WO and work plan. MTE MTB-5 Calibration Due Date 2-97	MTN	2-28-97
NOTE		*Use calibrated digital voltmeter for the following step.*		
PMT:	11	**POST MAINTENANCE TEST** A. Verify that each breaker reads 0 VAC on the load side of the breaker with the breaker open. B. Verify that each breaker reads a nominal 120 VAC on the load side of the breaker with the breaker closed. MTE MCMM-5 Calibration Due Date 2-98	MTN	2-27-97
FME:	12	Perform a Foreign Materials Exclusion inspection of panel to verify all tools and foriegn materials are removed	MTN	2-28-97
	13	Reinstall panel cover.	MTN	2-28-97
	14	Record all QAR, MTE and Lot numbers on WO.	MTN	2-28-97
1Y-06-03	16	**RETURN TO SERVICE TESTING** **Verify power to the following loads;** **1. MOB 71, SGBD Tank Steam Isolation Control 1CV-2042, 2045, SW Supply to 1P-29 AFWP Bearings 1SV-2090, 1C-144** **2. MOB 90, C-01 1IIIC-957 Accumulator Nitrogen Supply Controller via Recep QDBD** **C-01 1IIC-105 BA Tank Recirc Hand Controller via Recep QDBD** **C-01 1IC-104 BA Tank Recirc Hand Controller via Recep QDBD** **1PS-2115 Condenser Low Vacumn Alarm** **1TS-3620 Turbine Lube Oil Temperature** **1POT/1-2085 Reheat Steam Supply Temperature Controller via Recep QEAA**	OPS	2/28/97
	17	Ungag valves 1MS-2042 and 1-MS-2045 02-28-97	MOS	2/28/97
	18	Restore U1&U2 P-11A&B 02-28-97	OPS	2/28/97

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Comments:

Point Beach Nuclear Plant

WIRE REMOVAL LOG

Sheet 1 of 1

This log to be used when more than one wire is lifted at a time.

Removal Date 2-28-97 Restoration Date 2 28 97

*NOTE: Use of this form **does not** supersede any of the requirements of PBNP 3.1.1 Independent Verification and Concurrent Checks.*

Fill in the applicable block(s)				Initials			
Location	TB No.	Wire No.	Color	First Person Check	Wire Removed	Wire Restored	Second Person Check
1P06	3	1Y0603A	BLK	✓			

Attach this form to the procedure or MWR.

SMP/RMP/ICP No. _____ MWR No. 9612057 Other _____

PBF-0036
Revision 2 04/29/94

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UNIT: PB1          >>>  ADD/REVISE EQUIPMENT - DATA SCREEN 1  <<< System: Y
-------------------------------------------------------------------CH5101M 11/0
   EQUIP ID: Y-06-03                Physical Lctn: 44/CB/CR WEST
 EQUIP NAME: PWR TO 1MOB-71 AND 1MOB-90
PARENT/EQUIPMENT ID:
TRACKING ID: PB1 Y-06-03-AA                Text ID:          PSI Text ID:
Tracking Desc: PWR TO 1MOB-71 AND 1MOB-90          Tech Manual Ctl:
  Equip Group: CKTBKR Equip Type:              Resp Group: MTN WO No: 9612057
     Mfg Code: WEST     WESTINGHOUSE ELECTRIC CO.
  Vendor Code:          ------------------------------------------------
     Model No: EHD1030               Serial No: 6629C92G07
   QA: N         FP: N OPERABILITY      CR REF:     -       SDR: SDR-S-Y
   SR: N        A/P: P    Pre-Test: N   SE-RPT:                  Appendix R: N
   EQ: N        SSA: Y   Post-Test: N   EQ-RPT:                 Unit Shared: N
  CIV: N  QA Codes:                       CMP:              Safegrd Train:
 SEIS: 3  DSS Notification: Y  Special Notification:          LCO: N M-RULE: Y
NPRDS:  NPRDS (Y/N):                      Unit:         Component ID:
         Utility ID:
          System ID:                                 Utility System ID:
 PF2 - REPAIR COST   PF6 - NEXT RECORD   PF10 - PWR SUP     PF20 - MODEL
 PF3 - EQ MENU                           PF11 - OPEN WO     PF22 - PSI TEXT
 PF4 - RESET         PF8 - NEXT PAGE     PF12 - DETAIL      PF23 - TEXT
 PF5 - PREV RECORD   PF9 - PREV SCREEN   PF19 - BRWS TRK ID PF24 - HISTORY
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WO 9212057

DANGER TAG REQUEST

Work Control Document # 96/2057

Time/Date of application: 2-26-97 1630	Time/Date Tags Required: 0700 2-28-97
Requesting Individual:	Requesting Work Group: MTN
Responsible Supervisor: Electrical Maint.	Estimated Job Completion (Time/Date): 4 hrs

NOTE: If TS required equipment is to be disabled, the initiating work group shall initiate form PBF-9133.

Equipment ID: Y-06-03 Unit: 1

Scope of Work: Replace Breaker

Additional Work Control Documents

Recommended Danger Tagging/Explanation:

No Tags Req'd: ☑ Double Isolation: ☐

Positive Control: ☐ Grounding Req'd: ☐

Partial Removal Req'd: ☐

NOTE: The RMP/IWP/SMP//Work Order/Work Plan may be referenced above for the recommended danger tagging.

References: *(NOTE: Must include Rev. number for controlled documents used to verify adequacy.)*

Information:

Appendix R: ☐ Yes ☐ No If yes, attach Fire Round Sheet

LCO Req'd: ☐ Yes ☐ No If yes, attach LCO Tracking Form PBF-9133

Preparer:

Date:

Reviewer Date Approver (SRO) Date

NOTE: Additional reviews and approvals req'd for changes or additions to original tagout. Describe changes in information section.

Reviewer Date Approver (SRO) Date

Reviewer Date Approver (SRO) Date

Danger Tags No Longer Required and Protected Worker Log Sign-Offs Complete Tag Series No

Responsible Supervisor Date

SRO Procedure and Non-Operations Work Plan Review

All ITs, TSs, and Non-Operations work plans on Maintenance Rule or Safety Related or DSS Notification required work orders, to ensure they adequately establish initial conditions, equipment recovery actions (e.g. valve line-ups), and independent verification of recovery actions. Problems identified are to be corrected before use. This form documents the required review has been completed.

Procedure or Non-Operations work plan reviewed:

WO # 9612057

SRO (Reviewer)

2/28/97 1-28-97
Date

Work Order/Document No. 9612057

Return to Service Testing Reviews

INITIALS
Pre-Release / Pre or Post-RTS

Work Group Post-Maintenance Testing

VERIFY '0' VAC ON LOAD SIDE OF BKR W/BKR OPEN
VERIFY '120 VAC ON LOAD SIDE OF BKR W/BKR CLOSED

SAT Step 11 5/8/97

Section XI Equipment Y (N)

Operability Testing

See Step #16

Inservice Testing

None

ENGINEERING REVIEW

None

SECTION XI ENGINEERING REVIEW

None

N/A / NT

WCC TRACKING

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ORIGINAL ********** PBNP ********** WO No: 9612972
WO Priority: 4 * UNIT 1 * MWO * UNIT 1 *
Resp Group: MTN ********** HEADER PAGE ********** Step Print: 02/25/97
Equipment: Y-06-01 System: Y HP Zone:
Equipment Name: PWR TO 1MOB-P1/123-126/128/129
Physical Location: 44/CB/CR WEST Discovery Date: 10/23/96

Problem Description:
REPLACE BREAKER WITH PROPER SIZE BREAKER TO PROVIDE CORRECT CIRCUIT PROTECTION.

Originator: 6516 Outage ID: U1R24 Activity: 8888
Tag/Sticker Placed: T No: 99059 Tag/Sticker Lctn: Y-06
Job Type: CORRECTIVE MAINTENANCE Project ID: Condition Report:
Work Function: WORK ORDER
Mod Req #: 96 - 069

QA: N SEIS: 3 Operability Pre-Test: N Procedures:
SR: N LCO: N
EQ: N PMT: Y Operability Post-Test: N Procedures:
SSA: Y CIV: N MRULE: Y
A/P: P CaCC:
RRN: - - - - Tech Spec Ref:
QA Codes: Sect XI Class:
Tools Needed:

Work Plan/Instructions reviewed. Planner: JAMES RICH CON
LINE SUPERVISOR: P36733 NAME: DATE: 2/28/97

Plant Conditions: COLD SHUTDOWN Ignition Control Permit: N
Other Conditions: Transient Combustible Permit: N
Fire Barrier Penetration Permit: N KUF: N
Equipment Isolation Required: 2-26-97 CME: 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: 2/28/97

Special Notification:

Number of Steps: 001
Acct #: 00 - 00000 - 1200141 - 00000
MFG Code: WEST Tech Manual Cntl #:

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* WORK ORDER CLOSEOUT *

Group Head Signature _____ Date: 3/8/97

ORIGINAL   **********   PBNP   **********   WO No 96120720O
WO Priority: 4   * UNIT 1 *   MWO   * UNIT 1 *
Resp Group: MTN   **********   STEP DETAIL   **********   Step Print: 02/26/97
Equipment: Y-06-01   System: Y   HP Zone:
Equipment Name: PWR TO 1MOB-91/123-126/128/129
Physical Location: 44/CB/CR WEST
Sequence No: 01   Need Date:
Short Desc: REPLACE BREAKER   Sched Start Date:

PLANNED: WORK PROCEDURES:
Crew: ME
Shift: D
Class: 420

Work Plan Description:
REPLACE BREAKER USING ATTACHED WORK PLAN
ALL QC, FME, AND PMT ADDRESSED IN ATTACHED WORK PLAN.

QC REVIEW REQUIRED: N   DATE: __/__/__

WORK PERFORMED: Replaced Breaker IAW Work PLAN
TESTED FINE

MTE: NCMM-8   QAR: 13056R (LHR)
NCTS-5

ACTUAL USED:
CREW:
SHIFT:
WORKER CLASS: 420
NUMBER OF WORKERS: 2
TOTAL HOURS: 4.0
TTL EXPOSURE/STEP (MREM):

PARTS USED LIST ATTACHED: Y / (N)
WO TAGS REMOVED: (Y) / N / NA   WORK COMPLETE DATE: 2/28/97
EMPLOYEE NUMBER: 2207   EMPLOYEE NAME:

* WORK COMPLETED *

Cause Failure Code: PM / SVC / NRM / DeS
As Found-Out of Spec: Y / (N) / NA   Machine History Review Required: Y / N
Failed Component: ________
Corrective Action: NA/(SR)/RE/________   Downtime: ____ hrs
LINE SUPERVISOR: PB0733   NAME: DATE: 3/1/97

* EQUIPMENT RETURN TO SERVICE *

Operability Post Testing: Operational
EQUIP. TAKEN OOS - DATE: __/__/__ TIME: ____ RETURN DATE: __/__/__ TIME: ____
Operability Procs Performed: None
NON OPS SUPV: NAME: DATE: __/__/__
DSS: PBL718   NAME: DATE: 3/7/97