

ORIGINAL \*\*\*\*\* PBNP \*\*\*\*\* WO No: 9949098  
WO Priority: 6 \* UNIT 0 \* MWO \* UNIT 0 \*  
Resp Group: MM \*\*\*\*\* HEADER PAGE \*\*\*\*\* Step Print: 06/20/02

Equipment: AF-00038 System: AF HP Zone:  
Equipment Name: P-38A AFP SUCTION DRAIN  
Physical Location: 8/CB/AFP RM P-38A CUB Discovery Date: 11/16/01  
Serial Number: 18-85 MO  
Problem Description:  
VALVE LEAKS BY SEAT AND CAP. REPLACE VALVE AND ASSOCIATED DOWNSTREAM PIPING.

Originator: ALEF K T 6703 Outage ID: Activity: T11A2  
Tag/Stkr Placed: T TAG #: 179110 Tag Lctn: AF-38  
Job Type: CORRECTIVE MAINTENANCE ON PL Project ID: Condition Report: E  
Work Function: WORK ORDER  
Mod Req #: -

=====  
QA: Y SEIS: 1 Operability Pre-Test: N Procedures:  
SR: Y LCO: Y  
EQ: N PMT: Y Operability Post-Test: N Procedures:  
SSA: Y CIV: N MRULE: Y  
A/P: P CACC:  
RRN: Tech Spec Ref: SEE ITS  
QA Codes: 04 Sect XI Class: 3

Tools Needed: 06-27-02 09:00 REV)

=====  
Work Plan/Instructions reviewed. Planner: DESROCHES M D 6919  
LINE SUPERVISOR: W E Q O D I K NAME: W E Q O D I K DATE: 06/26/02

=====  
Plant Conditions: ANY CONDITION Ignition Control Permit: Y  
Other Conditions: P-38A OOS Transient Combustible Permit: N  
Fire Barrier Penetration Permit: N Scaffolding: N Heat Trace: N RWP: N

IS SCREENING FOR 10 CFR 50.59 OR 72.48 REQUIRED ACCORDANCE WITH NP 10.3.1?  
NO YES X NO. IF YES ATTACH APPLICABLE PORTIONS OF FORM PBF-1515.

Equipment Isolation Required: Y AF P-38A FME: Y  
ISO Tag Series #1: \_\_\_\_\_ ISO Tag #2: \_\_\_\_\_ ISO Tag #3: \_\_\_\_\_

Operability Pre-Test Complete. \_\_\_\_\_ Equipment Isolation as requested. \_\_\_\_\_  
Permission granted to perform Work.  
Ops DSS Notification Req: Y Ops DSS Signature: M M / K Date: 10/9/02

Special Notification:

Conditional release pending  
tagging/schedule

Number of Steps: 001

Acct #: 00 - 00060 - 3000122 - -0030  
MFG Code: POWELL Tech Manual Cntl #:

=====  
\* WORK ORDER CLOSEOUT \*

=====  
Group Head Signature: \_\_\_\_\_ Date: 1/1/  
=====  
A/254

ORIGINAL \*\*\*\*\* PBNP \*\*\*\*\*  
WO Priority: 6 \* UNIT 0 \* MWO \* UNIT 0 \*  
Resp Group: MM \*\*\*\*\* STEP DETAIL \*\*\*\*\*  
Equipment: AF-00038  
Equipment Name: P-38A AFP SUCTION DRAIN  
Physical Location: 8/CB/AFP RM P-38A CUB  
Sequence No: 01  
Short Desc: AF-38 SEAT LEAKAGE

WO No: 9949098001  
Step Print: 06/20/02  
HP Zone:  
System: AF

Need Date  
Sched Start Date: 07/29/02

PLANNED:  
Crew: MM  
Shift: 2  
Class: 430

WORK PROCEDURES:

Work Plan Description:  
REPLACE VALVE AS PER ATTACHED.

QC REVIEW REQUIRED: Y FRINK A J 7109 DATE: 062002

As Found Condition: Valve leaks by seat.

WORK PERFORMED: Removed valve from system, welded prep. pipe  
where old valve was. Welded in new valve. Installed  
label from old valve.

MTE: MTW-127 8/17/03 QAR: 16635 R001  
15193 R001

ACTUAL USED:	CREW:	Days	Days
	SHIFT:	<u>mm</u>	<u>mtw</u>
	WORKER CLASS:	<u>430</u>	<u>430</u>
	NUMBER OF WORKERS:	<u>1</u>	<u>2</u>
	TOTAL HOURS:	<u>5</u>	<u>3</u>
	TTL EXPOSURE/STEP (MREM):	<u>0</u>	<u>0</u>

PARTS USED LIST ATTACHED:  / N  
WO TAGS REMOVED:  / N / NA  
EMPLOYEE NUMBER: 114115311 WORK COMPLETE DATE: 10/23/02  
EMPLOYEE NAME: [Signature]

\* WORK COMPLETED \*

Cause Failure Code: PM /  SVC / NRM / SVC  
As Found-Out of Spec:  / N / NA Machine History Review Required:  / N  
Failed Component: VALVE  
Corrective Action: NA/RD/RE/AP Downtime: \_\_\_\_\_ hrs  
LINE SUPERVISOR: WE81914 NAME: [Signature] DATE: 10/23/02

\* EQUIPMENT RETURN TO SERVICE \*

Operability Post Testing: IT-10C completed sat  
EQUIP. TAKEN OOS - DATE: \_\_\_/\_\_\_/\_\_\_ TIME: \_\_\_ RETURN DATE: \_\_\_/\_\_\_/\_\_\_ TIME: \_\_\_  
Operability Procs Performed  
NON OPS SUPV: \_\_\_\_\_ NAME: \_\_\_\_\_ DATE: \_\_\_/\_\_\_/\_\_\_  
DSS: WE81914 NAME: [Signature] for PSM DATE: 10/25/02

# WO WORK PLAN

Work Control Document: 9949098  
 Equipment ID: AF-00038  
 Equipment Description: P-38A AFP SUCTION HEADER DRAIN  
 Work Plan Originator: Mike Desroches x6919

UNIT: PBO

Date: October 8, 2002

WORK SCOPE	
WORK SCOPE and PURPOSE	Scope. Replace valve. Purpose Valve is leaking by. Past attempts at repairing these valves has failed.
INITIAL CONDITIONS	P-38A OOS
DANGER TAG SCOPE	P-38A OOS Motor Breaker Racked Out AF-00038 Isolated, Drained and Vented
DANGER TAG REFERENCES	P&ID BECH 6118 M- 217 SH 2 @ G-04 P&ID BECH 6118 M- 217 SH 1 @ D-05
LIMITATIONS AND PRECAUTIONS	
TOOLS AND MATERIALS	Tools: Welding Equip. Materials: New 3/4" Velan Valve, 903-3266 SIR# 23896 3/4" Threaded Pipe Cap, L/N 901-2575 3/4" SS Pipe Nipple, L/N 902-9109  Existing Valve is a Powell Model 2474A. It will be replaced with a Velan W04-2074B-13AA. This has been evaluated on SPEED 02-058.  <i>SIR 28158 PIPE</i> <i>ISSUE AS ABOVE</i> <i>SIR# 29124 ?</i> <i>Cancelled</i> <i>SIR# 30290</i>

QUALITY CONTROL		
QC REVIEW OF WORK PLAN (independent QC review required on QA classified work order only) NA if non-QA work order Any change in scope requires WO WP review by QC inspector.	<i>[Signature]</i> QC INSP.	<i>10-8-02</i> Date

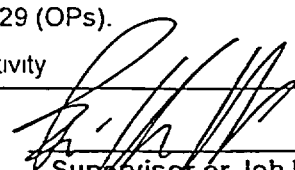
SUPPORT	
SUPPORT	<input type="checkbox"/> Engineering
	<input type="checkbox"/> Maintenance
	<input type="checkbox"/> NDE
	<input type="checkbox"/> Operations
	<input type="checkbox"/> Other

# WO WORK PLAN

Work Control Document: 9949098  
 Equipment ID: AF-00038  
 Equipment Description: P-38A AFP SUCTION HEADER DRAIN  
 Work Plan Originator: Mike Desroches x6919

UNIT: PB0

Date: October 8, 2002

PRE-JOB BRIEF	
Supervisor / Job Leader to conduct pre-job brief using PBF-9217 (Mtn and I&C) or OM 3.29 (OPs).	
NOTE: Pre-job brief may require attendance of other workgroups involved in the work activity	
PRE-JOB BRIEF COMPLETED	 _____ Supervisor or Job Leader 10/21/02 Date

NOTES	
NOTE:	The steps in this work plan may be performed in any logical order
FME:	Tools and equipment <u>shall</u> be checked for loose parts and debris and temporary covers should be installed for foreign material exclusion (FME) of system/components per Exclusion of Foreign Material from Plant components and Systems, NP 8.4.10.
NOTE:	IF inspections or discrepancies require modifications to Work Scope: THEN <b>STOP</b> work, place equipment in <b>SAFE</b> condition, and <b>NOTIFY</b> Supervision.
NOTE:	The Control Room / the Work Control Center / and the watchstander (as appropriate) shall be informed of the status of jobs which bring in alarms, affect indications, and other work being performed on operating equipment.
NOTE:	All workers <u>shall</u> perform all Danger Tagging requirements as defined in NP 1.9.15
NOTE:	When replacing parts, compare the old part to the new part to verify it is an acceptable replacement.
NOTE:	Any pen and ink change to work plan requires initial and date by the change.
NOTE:	Write WO number on top/header of any supplemental pages added to work package, i.e., forms, procedures, checklists

# WO WORK PLAN

Work Control Document: 9949098  
 Equipment ID: AF-00038  
 Equipment Description: P-38A AFP SUCTION HEADER DRAIN  
 Work Plan Originator: Mike Desroches x6919

UNIT: PB0

Date: October 8, 2002

Hold Point	Step No	Work Plan Description	Worker	Date
<b>PHASE ONE</b>				
This portion of the work order is for prefabrication work only and does not authorize any field installation activities.				
<b>WARNING</b>				
THIS VALVE WAS SHIPPED FROM THE MANUFACTURER WITH NO PACKING INSTALLED.				
	1	<del>Cut</del> the threads from one end of the new nipple. CUT THE M.I.B. 10-21-02	<del>YSP</del> MT	<del>10/21/02</del> DATE
	2.	Clean and prep the weld surfaces of the pipe and valve to a clean, bare metal condition that is free of any paint, oxidation or any other substance that could contaminate the weld  Perform the weld identified as SW-1 on the valve and pipe IAW the weld map (attachment 9949098-01) and the weld data sheet (attachment 9949098-02).	<del>YSP</del> MT	<del>10/21/02</del> DATE
	3	Install the new packing in stuffing box IAW "MI 32 2"  Record packing configuration and all requested information on the valve packing data sheet	<del>YSP</del> MT	<del>10/21/02</del> DATE
	4	Attach a "Material Control Tag" to the valve assembly. The label to include the following information: - Valve Number - Work Order Number - Stock numbers for the valve and pipe  (Pre-Assembled in Bin. By itself) & N-2502 NO TAG NEEDED	<del>YSP</del> MT	<del>10/23/02</del> DATE
	5.	The Pre-Fabricated valve assembly is to be placed in a suitable storage location pending installation. Record the storage location below. Storage location: <u>Clean Side QA Cage Row G-3 shelf</u>	<del>YSP</del> MT	<del>10/21/02</del> DATE



# WO WORK PLAN

Work Control Document: 9949098  
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 Work Plan Originator: Mike Desroches x6919

UNIT: PB0

Date: October 8, 2002

PMT	12	Cycle valve to verify operability, freedom of movement & no binding PMT <input checked="" type="checkbox"/> Sat <input type="checkbox"/> Unsat	<u>GD</u> MT	<u>10-23-2</u> DATE
	13.	Return the valve to the previously recorded "as found" position and record the "as left" position below <input checked="" type="checkbox"/> Open <input type="checkbox"/> Closed <input type="checkbox"/> Other (specify) _____	<u>GD</u> MT	<u>10-23-2</u> DATE
HOUSE KEEPING	14	Remove all debris, tools, and materials from the area. Ensure all work areas meet PBNP housekeeping expectations.	<u>GD</u> MT	<u>10/23/02</u> DATE
	15	Record the applicable valve information on PBF-9918 and forward PBF-9918 to Ann Nowolny for Champs equipment update.	<u>MS</u> MT SUPV	<u>10/23/02</u> DATE
LABELING	16.	Ensure labeling is adequate. Transfer Valve ID tag to new valve.	<u>GD</u> MT	<u>10-23-2</u> DATE
PMT	17.	Perform a leak check on the valve, piping and packing at NOP/NOT. NOTE: If packing leakage occurs, adjust as necessary or contact Maintenance for adjustment Leak Check <input checked="" type="checkbox"/> Sat <input type="checkbox"/> Unsat Comments: _____ _____ _____	<u>RH</u> OPS	<u>10/25/02</u> DATE

# WO WORK PLAN

Work Control Document: 9949098  
 Equipment ID: AF-00038  
 Equipment Description: P-38A AFP SUCTION HEADER DRAIN  
 Work Plan Originator: Mike Desroches x6919

UNIT: PBO

Date: October 8, 2002

## OPERATIONS

RETURN TO SERVICE TESTING	1.	Operations to perform all applicable Return to service test as defined on PBF-2114 Additional OPS test Requirements <u>none</u>	<u>RA</u> OPS	<u>10/23/02</u> DATE
		<input type="checkbox"/> SAT <input type="checkbox"/> UNSAT <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT		

## POST-JOB BRIEF

Conduct post-job debrief using PBF-9218 (Mtn and I&C) or OM 3 29 (OPs). Document lessons learned, good practices, problems encountered, etc. on feedback form. Debrief should include all applicable work groups

POST-JOB DEBRIEF COMPLETED	<u>[Signature]</u> Supervisor or Job Leader <u>10-23-02</u> Date
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## FEEDBACK

Fill out feedback form attached to work package (maintenance group use PBF-9929)	<u>[Signature]</u> (MT)	<u>10/23/02</u> DATE
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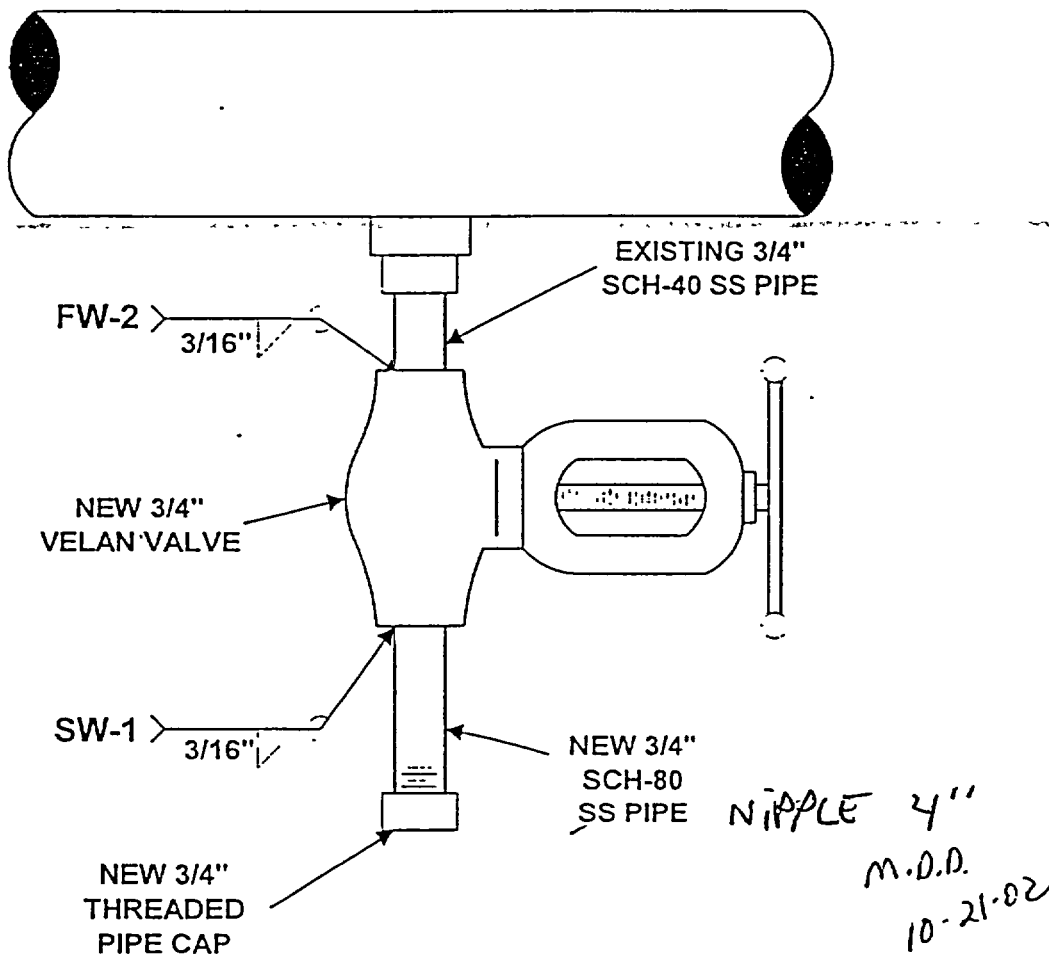


# WO WORK PLAN

Work Control Document: 9949098  
Equipment ID: AF-00038  
Equipment Description: P-38A AFP SUCTION HEADER DRAIN  
Work Plan Originator: Mike Desroches x6919

UNIT: PB0

Date: October 8, 2002



Point Beach Nuclear Plant  
**FILLET/SOCKET WELD DATA SHEET**

WORK AUTHORIZATION # (WO, MR, etc.) 9949098  
 DRAWING # WO weld map REVISION N/A DATE N/A INITIATOR/DATE Desroches 6-20-02  
 BASE MATL TYPE/GR Valve F-316 SS Nom Thick N/A to BASE MATL TYPE/GR ASTM A312 TP304 Nom Thick 0.113 154"  
 EQUIPMENT # AF-00038 LINE # JG-4 FINAL ACCEPTANCE/DATE

WELDING PROCEDURE SPEC.	Weld# 1	Size 3/16"	Weld# 2	Size 3/16"	Weld#	Size	Weld#	Size	Weld#	Size
	Group	Initials	Group	Initials	Group	Initials	Group	Initials	Group	Initials
WPM <u>2.P8</u> GT	<input checked="" type="checkbox"/> MM	<u>JSP</u>	<input checked="" type="checkbox"/> MM	<u>JSP</u>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Fit-up, Alignment, Cleanliness, ✓	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Electrode Size <u>3/32 / 1/8</u>	<input checked="" type="checkbox"/> mm	<u>JSP</u>	<input checked="" type="checkbox"/> mm	<u>GD</u>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Type <u>ER316</u>	<input checked="" type="checkbox"/> MM	<u>JSP</u>	<input checked="" type="checkbox"/> MM	<u>GD</u>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Trace # _____	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Shield Flow Rate <u>5-25</u> CFII	<input checked="" type="checkbox"/> MM	<u>JSP</u>	<input checked="" type="checkbox"/> MM	<u>GD</u>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Electrode Size _____	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Type _____	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Trace # _____	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
PREHEAT TEMPERATURE	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Min Temp. <u>50</u> F	<input checked="" type="checkbox"/> MM	<u>JSP</u>	<input checked="" type="checkbox"/> MM	<u>GD</u>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Purge: < <u>N/A</u> % O	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Oxygen Analyzer S/N _____	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
INTERPASS TEMPERATURE	<input checked="" type="checkbox"/> mm	<u>JSP</u>	<input checked="" type="checkbox"/> mm	<u>GD</u>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Maximum Temperature <u>350</u> F	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Welders Symbol/ID	<input checked="" type="checkbox"/>	<u>JSP</u>	<input type="checkbox"/>	<u>GD</u>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Final NDE: <input checked="" type="checkbox"/> VT	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Procedure 1) _____	Initials	Form#	Initials	Form#	Initials	Form#	Initials	Form#	Initials	Form#
2) _____	<u>mjk 10-21-02</u>	<u>701268</u>	<u>mjk 10-23-02</u>	<u>701269</u>						
3) _____										
Comments: <u>ASME B31.1 1967 ed Final VT required.</u>										
<u>PAGE NDE 5743</u>										

Attachment Number: 9949098-02

Point Beach Nuclear Plant  
**VALVE PACKING DATA SHEET**

WORK ORDER = 9949098

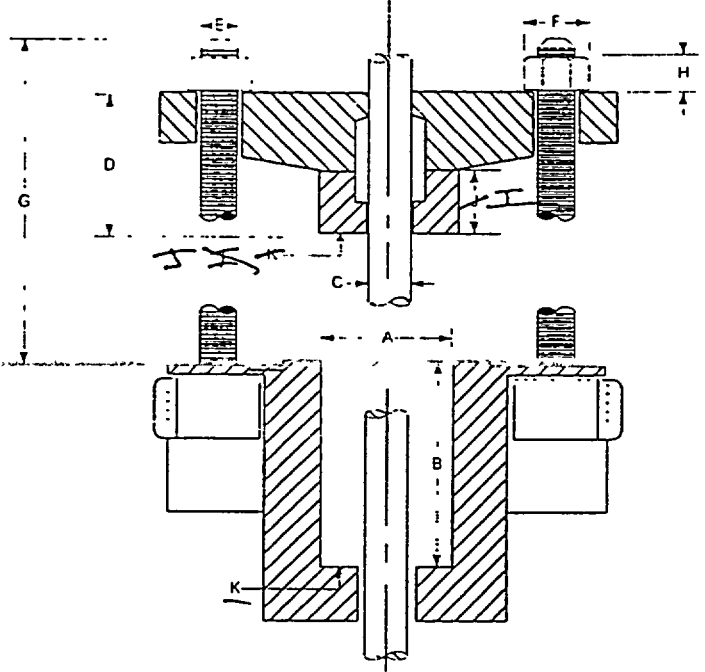
EQUIPMENT I.D. = AI-00038

NOTE: The following information is requested needed to provide packing configuration for this valve. Information shall be obtained and forwarded to Valve Team Engineering or to your supervisor.

MFG MODEL Velan W04-2074B-13AA

SERIAL No 011036-9

- A. STUFFING BOX I D 7/8"
- B. STUFFING BOX DEPTH 1 1/16"
- C. STEM O.D. 1/2"
- D. GLAND/FOLLOWER 7/8"
- E. GLAND STUD O.D. 5/16"
- F. GLAND NUT (Between Flats) 3/4"
- G. EXPOSED STUD LENGTH 1 1/2"
- H. NUT HEIGHT 1/4"
- I. GLAND NOSING 1/2"
- J. BOTTOM OF BOX/GLAND AREA FLAT? (YES) / NO
- K. Bottom of Stuffing Box Flat? (YES) / NO
- ACTIVE LEAKOFF LINE? (YES) / NO
- LIVE LOADED? (YES) / NO



\*\*\*PACKING CONFIGURATION FROM TOP TO BOTTOM:\*\*\*

AS-FOUND		AS-LEFT	
<u>N/A</u>	NUMBER OF WIPER RING(S)	<u>1</u>	SIZE OF RING(S) <u>7/8" x 1/2" x 1/4"</u>
	NUMBER OF SEALING RINGS	<u>2</u>	SIZE OF RING(S) <u>7/8" x 1/2" x 1/4"</u>
	NUMBER OF WIPER RING(S)	<u>1</u>	SIZE OF RING(S) <u>7/8" x 1/2" x 1/4"</u>
	HEIGHT OF CARBON BUSHING	<u>NONE</u>	SIZE OF BUSHING: _____ x _____
	HARDENED WASHERS	<u>NONE</u>	SIZE OF HARDENED WASHER _____

MMV(Craft) TO TIGHTEN THE GLAND NUTS:  HAND TIGHT  WRENCH TIGHT  TORQUED ENG per manual valve torque chart: 87Y 10-21-62

Measurements Performed By: John Papierniak (Print) / [Signature] (Signature) Date: 10/21/02

NOTE: For AOV's and MOV's, valve shall be setup for target packing friction.  
 NOTE: \* To be done by AOV/MOV technician when Hand Tight box is checked.

\*TARGET GLAND NUT TORQUE: 3 ft.lbs. per John P. Schroeder, AS-LEFT TORQUE: 3 ft.lbs. (INITIALS) [Signature]

\*TARGET PACKING FRICTION: \_\_\_\_\_, AS-LEFT FRICTION. \_\_\_\_\_ (INITIALS)

M&TE USED/COMMENTS: \_\_\_\_\_





VISUAL WELD EXAMINATION RECORD

Component No.: <b>AF-00038</b>	Component Description: <b>WELD # 1</b>	Page of <b>1 1</b>	Sheet No. or W.O. No.: <b>Nº 701268</b>
Welder(s): <b>JBP</b>	NDE Procedure / Rev.: <b>NDE 700 / REV. 8</b>	Examiner(s) / Level / Date (Print): <b>M. KICKBUSCH / II / 10-21-02</b>	
Code and Year:	Site / Project: <b>PBNP / W09949098</b>		
Material Thick / Req. Weld Size: <b>ASME B.31.1 / 1967</b>	Direct / Remote Insp: <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote		

EVALUATION

	WELD ATTRIBUTES	ACC	REJ	N/A	RESULTS/REMARKS
1	Joint Preparation (Cleanliness, Alignment)			✓	NO RECORDABLE INDICATIONS 1 OF 1 WELD EXAMINED
2	Fillet Weld Size	✓			
3	Fillet Weld Length	✓			
4	Cracks	✓			
5	Inclusions	✓			
6	Lack of Penetration (If Open to Surface)			✓	
7	Undercut	✓			
8	Overlap/Coldlap	✓			
9	Concavity/Convexity	✓			
10	Weld Reinforcement			✓	
11	Arc Strike(s)	✓			
12	Weld Spatter	✓			
13	Porosity	✓			

Additional Remarks: NONE

SKETCH ATTACHED  N/A

Examination Area Limitations (If None, so state): FINAL WELD ONLY

Examiner(s) / Level / Date (Signature): <b>Moe J. Lopez / II / 10-21-02</b>	Reviewer / Level / Date: <b>N/A</b>
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VISUAL WELD EXAMINATION RECORD

Component No.: <b>AF-00038</b>	Component Description: <b>WELD #2</b>	Page of <b>1 1</b>	Sheet No. or W.O. No.: <b>Nº 701269</b>
Welder(s): <b>GBD</b>	NDE Procedure / Rev.: <b>NDE 700 / REV. 8</b>	Examiner(s) / Level / Date (Print): <b>M. KICKBUSCH / TE / 10-23-02</b>	
Code and Year: <b>ASME B31.1 / 1967</b>	Site / Project: <b>PBNP / WO 9949098</b>		
Material Thick / Req. Weld Size: <b>0.113" / 0.154" / 3/16"</b>	Direct / Remote Insp.: <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote		

EVALUATION					
	WELD ATTRIBUTES	ACC	REJ	N/A	RESULTS/REMARKS
1	Joint Preparation (Cleanliness, Alignment)			✓	NO RECORDABLE INDICATIONS  1 OF 1 WELDS EXAMINED
2	Fillet Weld Size	✓			
3	Fillet Weld Length	✓			
4	Cracks	✓			
5	Inclusions	✓			
6	Lack of Penetration (If Open to Surface)			✓	
7	Undercut	✓			
8	Overlap/Coldlap	✓			
9	Concavity/Convexity	✓			
10	Weld Reinforcement			✓	
11	Arc Strike(s)	✓			
12	Weld Spatter	✓			
13	Porosity	✓			

Additional Remarks: NONE

SKETCH ATTACHED  N/A

Examination Area Limitations (If None, so state): FINAL WELD ONLY

Examiner(s) / Level / Date (Signature): <b>meq. wll / TE / 10-23-02</b>	Reviewer / Level / Date: <b>N/A</b>
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Point Beach Nuclear Plant  
**FME CHECKLIST**

I. WORK ORDER/PROCEDURE/EVOLUTION: \_\_\_\_\_ 9949098

II. ADMINISTRATIVE CONTROL EXEMPTIONS:

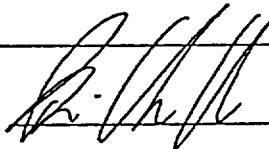
Yes / No

(If any are answered "YES," General requirements continue in effect and Section IV INSPECTIONS are still required.)

- 1. Piping/Conduit 2" Diameter or Less (nominal) or System Opening Less Than 4 Square Inches (approximate). See Note 1. Yes
- 2. System Opening Less Than or Equal to 4 Inches in Diameter (i.e. waterbox drain) Between 4 O'clock and 8 O'clock (pointing down). Yes
- 3. Maintenance Activity Involving Compression/Threaded Fittings No
- 4. Maintenance/Operations Pump/Valve Repacking. See Note 1. No
- 5. Maintenance/Operation Oil Changes, Oil Sampling, or Repacking of Grease in Components No
- Using Factory Installed Fill/Vent Ports
- 6. FME Zone: 1 2 N/A - Gen. Reqmt's. (circle one)

Recommended By (Planner): MAD

Date: 6-20-02

Concurred By (Cognizant Supervisor): 

Date: 10/21/02

III. ADMINISTRATIVE REQUIREMENTS: (Initial those that apply)

	ZONE 1	ZONE 2		
1. Boundaries (Required for all Zone 1 FMEAs)	Required	NOT Required		
2. Signs (Required for all FMEA Zone 1 & 2)	Required	Required		
3. Pipe Dams Required (Record On FME Material Control Log)		NIL		
4. FME Material Control Log (PBF-9157)	*Required	NIL		
5. Chemical Exclusion Zone (See Dry Fuel Requirements)		NIL		

\* NOT required when Temporary Covers or internal barriers are in place.

COMPLETED  
(Initial/Date)

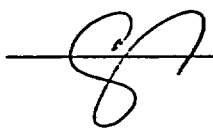
6. Administrative requirements implemented (Supervisor/Leadperson).

BTU 1 10/21/02

IV. INSPECTION REQUIRED:

- 1. Pre-System Opening Area Inspection/Cleanup Required.
- 2. Final Closeout Inspection.

JSP 1 10/23/02  
ED 1 10/23/02

Complete/Reviewed By (Supervisor/Leadperson): 

Date: 10-25-02

Note 1: Continuously attend system/component when open, or cover when NOT attended.

(Reference: NP 8.4.10)

Nuclear Power Business Unit  
**POST-JOB BRIEF CHECKLIST**

JOB/EVOLUTION: AF-00038	AREAS/WO #9949098	DATE:
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- When a Post-Job Brief is necessary, the appropriate level of management on the job should conduct the brief ASAP after the job is complete.
- Cover all of the following pertinent information and any other relevant information in the post-job brief.
- Note feedback on feedback form(s) PBF-0026p or PBF-9929, as applicable.
- Include any new practices that worked well.
- Fill out a condition report when necessary.

Conducted By CRIDLEY Date: 10-25-02

Attendees Deichstern / PAPERWALK

SAT	UNSAT	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Nuclear Safety
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Industrial Safety
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Initial Conditions
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pre Job Brief
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pre job Planning
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Work Plan / Procedure Signoffs
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RWP / ALARA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Interaction / Support from other groups/Team interaction
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Job Walk Down
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Permits
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Schedule / Planning
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Work Plan / Procedure
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Prints
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Danger Tag Adequacy
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Energized/De-Energized Equipment
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tools & Safety Equipment
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Parts Needed / Prestaged
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lot Number Discrepancy
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Accuracy in Champs
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Frequency / Scope of PM/ST (Document as found condition)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Quality Control
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fire Protection
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Housekeeping / FME
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Post Maintenance Test
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time Pressures
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Training
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operating Experience
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Equip Label
<b>Special Tools</b>		
<input type="checkbox"/>	<input type="checkbox"/>	If special tools were made to help with the job, ensure they are stored in the toolroom and listed on the paperwork for the next time the job is issued.
<b>Lessons Learned</b>		
<input type="checkbox"/>	<input type="checkbox"/>	Ensure lessons learned are documented on the feedback form / Condition Report.
Comments: _____		
_____		
_____		



Point Beach Nuclear Plant  
PRE-JOB BRIEF CHECKLIST

JOB/EVOLUTION: <b>AF-38</b>	AREAS/WO# <b>9949098</b>	DATE: _____
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ATTENDEES **10/21/02 - Prefab Only**  BRIEFING REQUIRED DAILY IF CHECKED

Conducted By: <b>Vander Veld</b>	<b>Ziding S</b>	<b>Wiegand</b>
<b>Schroening</b>	<b>Dickman</b>	<b>Kick Bush</b>
<b>Spicerwick</b>	<b>Papicunk</b>	
	<b>Ducut</b>	
	<b>J Tolson</b>	<i>Use back of sheet if necessary</i>

**REVIEW / DISCUSS & CHECK OFF all Applicable Items**

<p><input checked="" type="checkbox"/> <u>Scope of Job</u></p> <ul style="list-style-type: none"> <li>• Purpose, leader, resources, tools, parts</li> <li>• Procedures, work orders, drawings, permits</li> <li>• Maintenance Rule, Status of the affected system</li> </ul>	<p><input checked="" type="checkbox"/> <u>Hazards</u></p> <ul style="list-style-type: none"> <li>• Personnel safety/PPE</li> <li>• Plant operation, power generation, nuclear safety, trip avoidance</li> <li>• Equipment</li> <li>• Asbestos</li> <li>• Lead paint</li> </ul>
<p><input checked="" type="checkbox"/> <u>Energy Sources</u></p> <ul style="list-style-type: none"> <li>• Tag boundaries</li> <li>• Energized equipment, de-energized equipment, pressurized, de-pressurized</li> <li>• Protected Worker Log</li> </ul>	<p><input checked="" type="checkbox"/> <u>Radiological Conditions</u></p> <ul style="list-style-type: none"> <li>• ALARA</li> <li>• RWP</li> <li>• Radwaste Considerations</li> </ul>
<p><input checked="" type="checkbox"/> <u>Communications</u></p> <ul style="list-style-type: none"> <li>• Communication requirements</li> <li>• Necessary notifications</li> <li>• Individual job requirements are understood</li> </ul>	<p><input checked="" type="checkbox"/> <u>Other</u></p> <ul style="list-style-type: none"> <li>• Logistics support requirements</li> <li>• Foreign Material Exclusion</li> <li>• Housekeeping</li> <li>• Security notification</li> <li>• PBNP/Industry event Lessons learned</li> </ul>
<p><input checked="" type="checkbox"/> <u>Special Precautions</u></p> <ul style="list-style-type: none"> <li>• Industry and in-house operating experience, as applicable</li> <li>• Critical steps</li> <li>• Error-likely-situations, as applicable</li> <li>• Defenses-barriers</li> <li>• Independent verifications and concurrent checks</li> <li>• Termination criteria-recovery, as applicable</li> </ul>	<p><input checked="" type="checkbox"/> <u>Key Error Traps</u></p> <ul style="list-style-type: none"> <li>• First time evolution</li> <li>• Distractive or poor environment</li> <li>• Inadequate mental/physical state</li> <li>• Time pressure</li> <li>• Imprecise communication</li> <li>• Other error likely tasks</li> </ul>
<p><input checked="" type="checkbox"/> <u>Key Barriers</u></p> <ul style="list-style-type: none"> <li>• Job briefings</li> <li>• Procedure use</li> <li>• Administrative program use</li> <li>• Turnover meetings</li> <li>• Supervisory presence</li> <li>• Review verification</li> <li>• Co-worker coaching</li> <li>• Self improvement</li> </ul>	



Required Date	: 09/16/2002	Issue Point	: 30-PBNP
SIR Number	: PB02-023896	Work Order	: PB99-049098-000
Requestor	: Desroches, Michael	Asset	:
Deliver To	: Store w WO# 9949098	Crew	: 9949098

Line	Stock Number	Description	Q Level	Qty To Be Issued:	
1.	100-2592	VALVE, GLOBE, SIZE 3/4", DESIGN RATING 800 LB,	SR1	1.00	EA

Row/Bin	Lot Number	Expires	Cond	Allocated	On Hand	Issued	Returned
new item	P009282-02		NEW	1.00	2.00	<u>1</u>	<u>0</u>

Receiv 6  
 Skat 3 Bin with 9945610 + 0205651

Issued By W. Wisnowski Received By \_\_\_\_\_ Date 9/25/02



Required Date	: 10/21/2002	Issue Point	: 30-PBNP
SIR Number	: PB02-030290	Work Order	: PB99-049098-000
Requestor	: Desroches, Michael	Asset	:
Deliver To	: will pick up	Crew	:

<u>Line</u>	<u>Stock Number</u>	<u>Description</u>	<u>Q Level</u>		<u>Qty To Be Issued:</u>			
1	902-9109	NIPPLE, PIPE, 3/4" X 4" LENGTH, SCH 80, THREADED -	SR1			1.00	EA	

<u>Row/Bin</u>	<u>Lot Number</u>	<u>Expires</u>	<u>Cond</u>	<u>Allocated</u>	<u>On Hand</u>	<u>Issued</u>	<u>Returned</u>
3FA6G2	11868		NEW		0.00	_____	_____
3FA6G2	12015		NEW		0.00	_____	_____
3FA6G2	13837		NEW		0.00	_____	_____
3FA6G2	14761		NEW		0.00	_____	_____
3FA6G2	14761-008		NEW		0.00	_____	_____
3FA6G2	P002593-01		NEW	1.00	12.00	<u>  1  </u>	<u>  0  </u>

2.	915 1164	PACKING, 1/2" X 7/8" X 1/4", PREFORMED RING, GRAFOIL,	CM1		<u>Qty To Be Issued:</u>	2.00	EA	
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<u>Row/Bin</u>	<u>On Hand</u>	<u>Issued</u>	<u>Returned</u>
NSK9D2	31.00	<u>  2  </u>	<u>  0  </u>

3.	918-3345	PACKING, 1/2" X 7/8" X 1/4", PREFORMED RING, WITH 30 DEGREE	CM1		<u>Qty To Be Issued:</u>	2.00	EA	
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<u>Row/Bin</u>	<u>On Hand</u>	<u>Issued</u>	<u>Returned</u>
NSK8D1	89.00	<u>  2  </u>	<u>  0  </u>

Issued By Roger Podell

Received By \_\_\_\_\_

Date 10-21-02