

FLOW IS HELD CONSTANT @ 5500 GPM

Pump: SW-P-D Procedure: 6.2SW.101, Normal

Test Date	Diff Press (dP) (psid)	Vib (1V) (in/sec)	Vib (2H) (in/sec)	Vib (4H) (in/sec)	Test Comments
8/7/2002 5:06:00 PM	59.78	0.069	0.098	0.092	
9/5/2002 1:42:00 AM	59.56				Performed to satisfy administrative summer frequency test
10/2/2002 11:03:00 PM	59.9				Administrative summer increased frequency test
10/16/2002 12:20:00 PM	59.56	0.099	0.102	0.064	PMT for Lift Adjustment per Work Order #4256276; all new reference values represent acceptable pump operation
11/27/2002 12:00:00 PM	60.03	0.119	0.131	0.082	PMT for packing adjustment per WO #4274153; reference values reconfirmed.
1/6/2003 3:00:00 AM	65.36	0.058	0.088	0.079	PMT for pump overhaul (4256493), pump lift (4260039) and discharge check valve, 13CV, replacement (4256498). Pump re-baselined. See log entry.
2/6/2003 12:00:00 PM	66.3	0.075	0.102	0.072	D/P value recorded in reference to "E" Bay water level. A value of 66.4 psid was obtained for "D" bay water level. SW-TCV-451B is inoperable and was maintained in the open position.
3/14/2003 6:30:00 AM	65.85	0.086	0.119	0.075	
4/8/2003 9:42:00 AM	64.66	0.0653	0.096	0.0673	
5/14/2003 4:41:00 PM	62.4	0.089	0.122	0.088	
7/10/2003 2:50:00 AM	63.08	0.11	0.1	0.0739	
10/3/2003 5:00:00 AM	61.992	0.104	0.101	0.0594	D/P in alert range; Notification #10275317 written to place pump on increased frequency

42

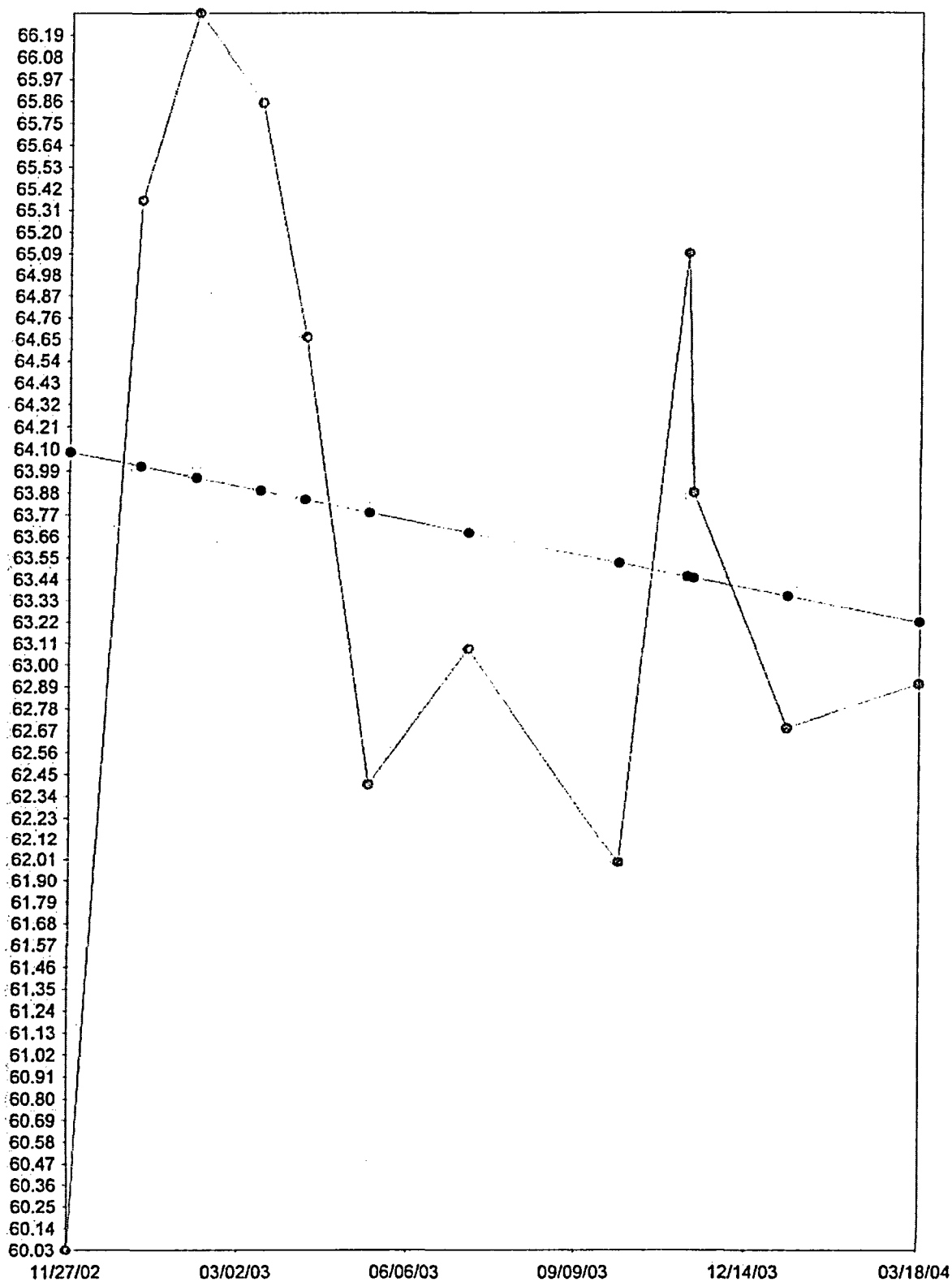
Pump: SW-P-D Procedure: 6.2SW.101, Normal

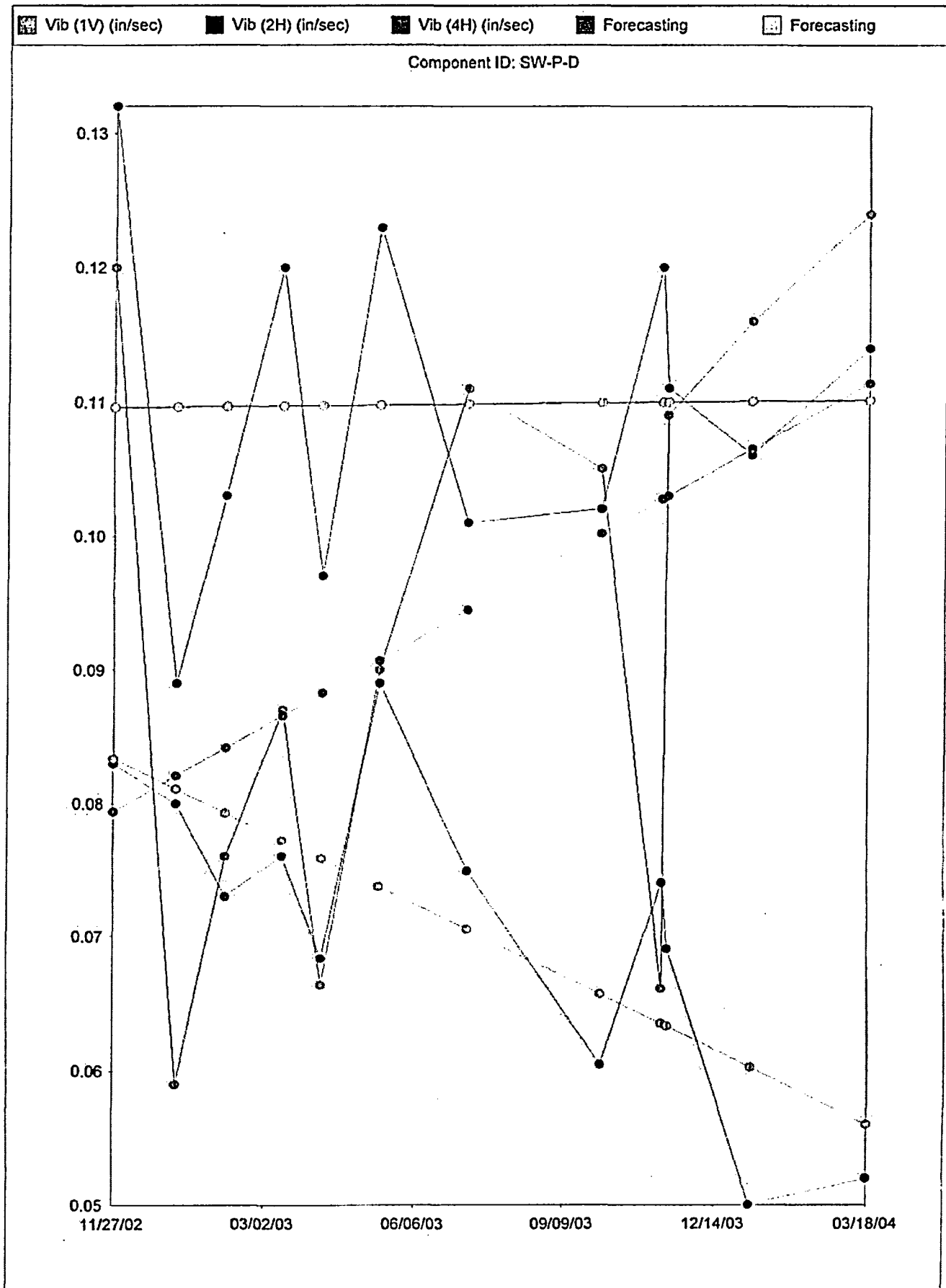
Test Date	Diff Press (dP) (psid)	Vib (1V) (in/sec)	Vib (2H) (in/sec)	Vib (4H) (in/sec)	Test Comments
11/10/2003 12:00:00 PM	65.09	0.065	0.119	0.073	Pretest for work order #4333508
11/14/2003 12:53:00 AM	63.88	0.108	0.11	0.068	This test was a post-maintenance test for work order #4333508 (lift adjustment and re-pack). The gap was adjusted from 0.077" to 0.094" per the SAP confirmation for this work order. The pump is operating acceptably and was re-baselined. Additionally, the pump was removed from increased frequency on 11-25-03. RAL revision 167 contains the new acceptance criteria for this pump.
1/5/2004 4:30:00 PM	62.68	0.115	0.105	0.049	
3/18/2004 5:00:00 PM	62.9	0.123	0.113	0.051	

Diff Press (dP) (psid)

Forecasting

Component ID: SW-P-D





FLOW IS HELD CONSTANT @ 5500 GPM

Pump: SW-P-B Procedure: 6.2SW.101, Normal

Test Date	Diff Press (dP) (psid)	Vib (1V) (in/sec)	Vib (2H) (in/sec)	Vib (4H) (in/sec)	Test Comments
10/17/2002 11:07:00 PM	62.5	0.0756	0.0697	0.0497	Post Lift Adjustment per Work Order 4256277; all new reference values represent acceptable pump operation
1/24/2003 12:00:00 PM	62.6	0.061	0.091	0.099	"B" test only performed. Test terminated due to problems with SW-FI-364B (notification #10222100); SW-TCV-451B would not indicate full closed and therefore was not timed(notification #10222116); notification 10222134 was also written during this test due to finding. SW-FI-385B isolated.
2/6/2003 12:00:00 PM	62.5	0.075	0.088	0.069	D/P value recorded in reference to "E" Bay water level. A value of 62.6 psid was obtained for "D" bay water level. SW-TCV-451B is inoperable and was maintained in the open position.
2/22/2003 12:00:00 PM	66.85	0.132	0.173	0.125	Re-baselined due to a pump overhaul per work order #4256491. The new values represent acceptable pump operation.
3/14/2003 8:30:00 AM	66.8	0.104	0.124	0.102	
4/8/2003 9:42:00 AM	66.9	0.104	0.114	0.085	
5/14/2003 4:41:00 PM	65.4	0.099	0.117	0.067	
7/10/2003 12:00:00 PM	64.58	0.0635	0.0846	0.0939	
10/3/2003 5:00:00 AM	63.99	0.0639	0.0967	0.109	

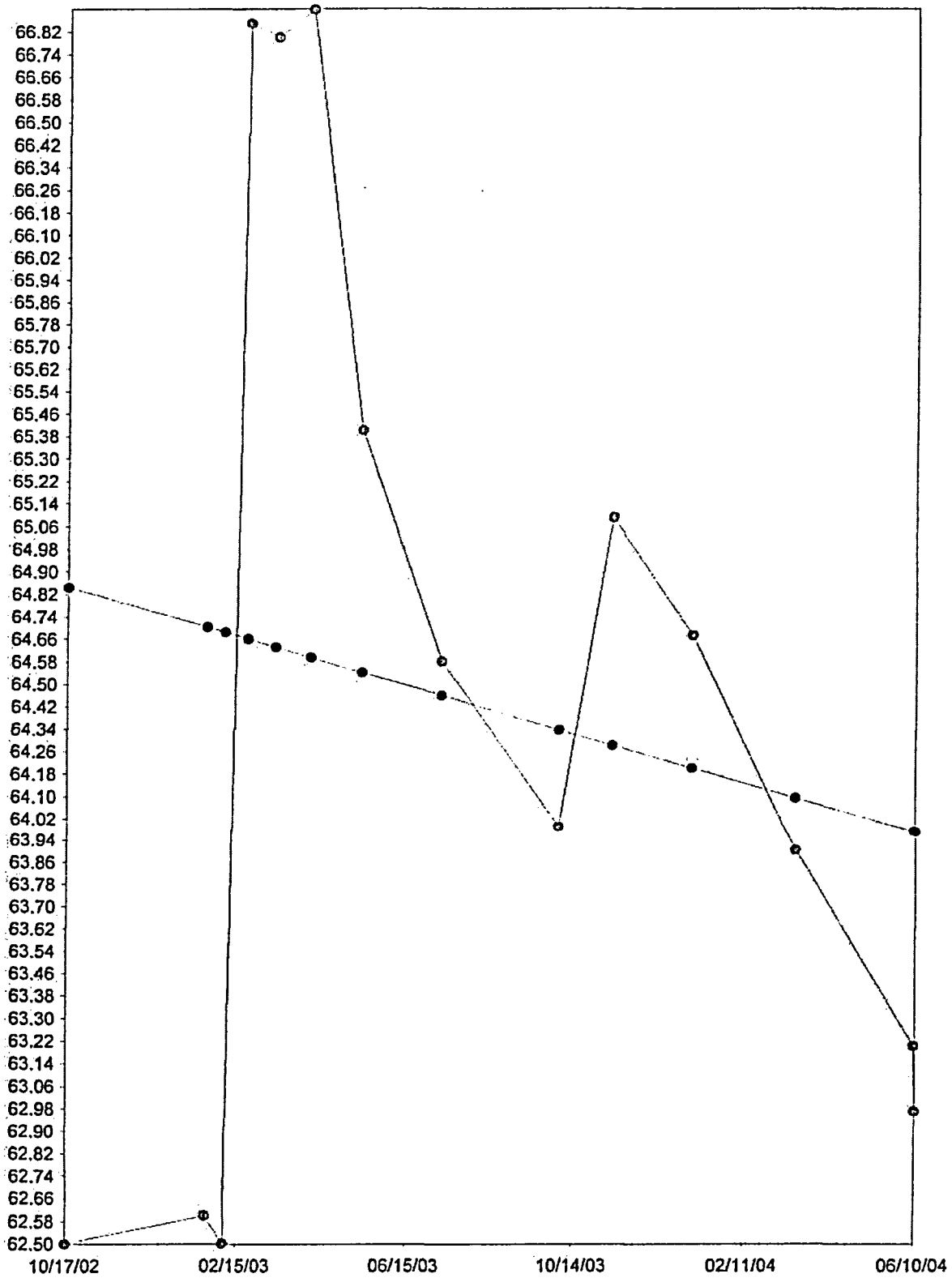
Pump: SW-P-B Procedure: 6.2SW.101, Normal

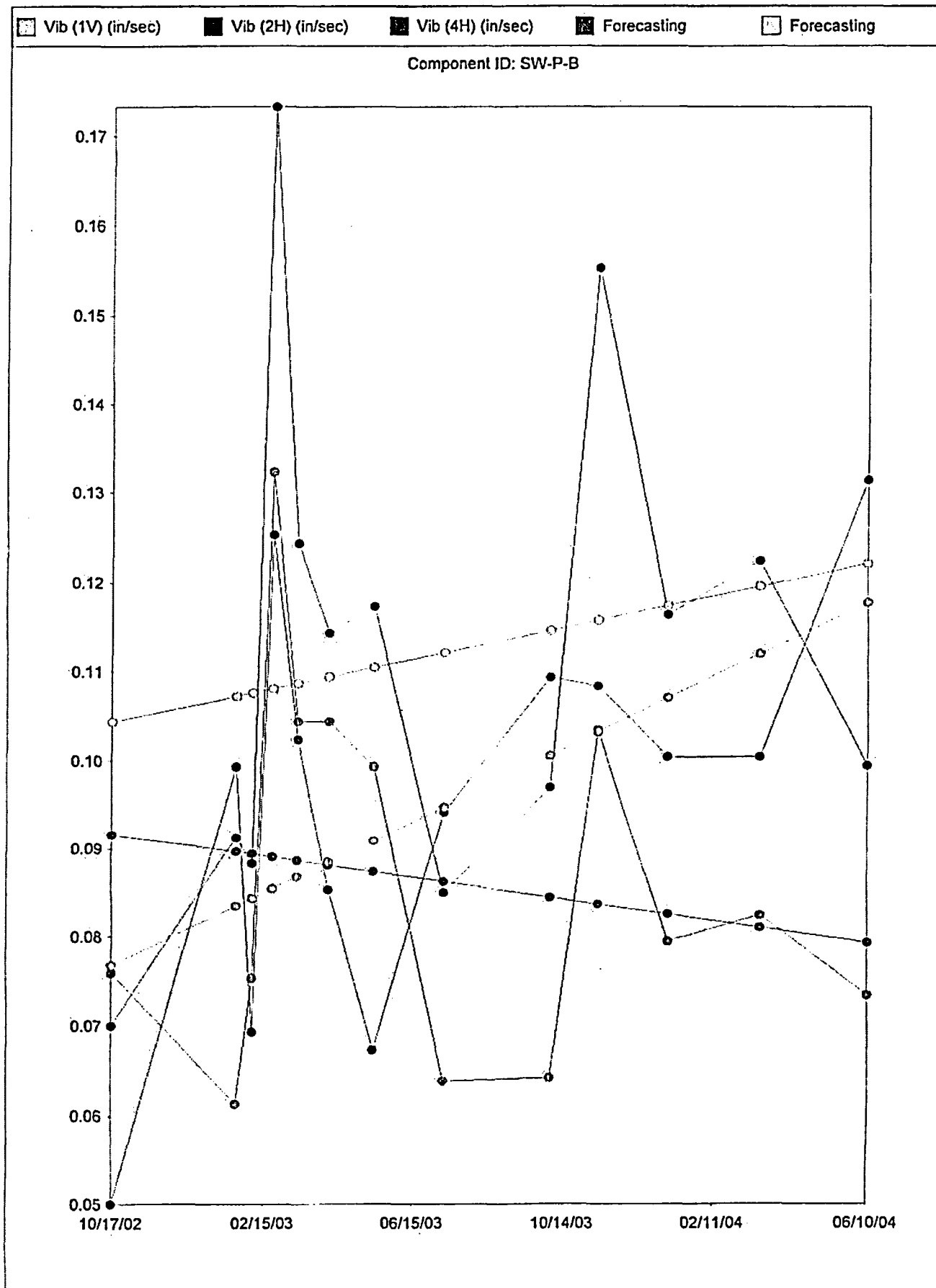
Test Date	Diff Press (dP) (psid)	Vib (1V) (in/sec)	Vib (2H) (in/sec)	Vib (4H) (in/sec)	Test Comments
11/10/2003 12:00:00 PM	65.09	0.103	0.155	0.108	PMT following packing replacement per work order #4333507; work should not have changed pump values; river temperatures have more affect; reconfirmed reference values
1/5/2004 4:30:00 PM	64.67	0.079	0.116	0.1	
3/18/2004 5:00:00 PM	63.9	0.082	0.122	0.1	
6/10/2004 12:30:00 AM	63.2				Pre-test for 4382673, pump lift adjustment. D/P is in the alert range low. This potential was previously identified and is why the lift adjustment was scheduled. Reference notification #10321308.
6/10/2004 6:10:00 PM	62.97	0.073	0.099	0.131	This was a post-work test for work orders 4375384 (pump re-pack) and 4382673 (pump impeller lift adjustment). The pump is operating acceptably and is being re-baselined. Refer to IST log for further information.

Diff Press (dP) (psid)

Forecasting

Component ID: SW-P-B





S	Order	Type	Bsc start	Short text	FunctLoc.	Basic fin.
-	4231739	CM	01/25/2003	SWP GLAND WATER FLOW LOOS UNPLANNED LCO	CNS-2-SW-P-B	01/26/2003
-	4260046	PM	01/05/2003	SET IMPELLER LIFT PER 7.2.45 SEE NOTE	CNS-2-SW-P-B	01/29/2003
-	4256491	CM	02/21/2003	OVERHAUL "B" SERVICE WATER PUMP	CNS-2-SW-P-B	02/22/2003
-	4300025	CM	03/13/2003	LOW GLAND WATER FLOW SW PUMP B	CNS-2-SW-P-B	03/14/2003
-	1004604	LCO	02/18/2003	WEEK 03 08 "B" SERVICE WATER PUMP LCO	CNS-2-SW-P-B	03/21/2003
-	4296807	CM	03/25/2003	RETORQUE FOUNDATION BOLTING ON SW-P-B	CNS-2-SW-P-B	03/25/2003
-	4300276	CM	04/17/2003	FLUSH SW-P-B GLAND SEAL LINE	CNS-2-SW-P-B	04/17/2003
-	4309765	CM	05/19/2003	SW-P-B HAS EXCESSIVE GLAND LEAKAGE	CNS-2-SW-P-B	05/19/2003
-	4321864	CM	09/16/2003	"B" SERVICE WATER PUMP GLAND LEAKAGE	CNS-2-SW-P-B	09/16/2003
-	1003354	LCO	08/26/2003	SW-P-B	CNS-2-SW-P-B	09/26/2003
-	4333507	CM	11/10/2003	SW-P-B PACKING HAS NO ADJUSTMENT LEFT	CNS-2-SW-P-B	11/10/2003
-	1007008	LCO	10/22/2003	WK SW-P-B REPACK	CNS-2-SW-P-B	12/05/2003
-	4361757	CM	02/05/2004	SW PUMP B NEEDS PACKING ADJUSTED	CNS-2-SW-P-B	02/11/2004
-	4251010	EWO	01/15/2004	EVALUATE NOTIFICATION 10143503	CNS-2-SW-P-B	02/25/2004
-	4366506	CM	03/01/2004	EXCESSIVE PACKING LEAKAGE FROM SW PUMP B	CNS-2-SW-P-B	03/02/2004
-	4375384	CM	06/10/2004	SW-P-B IS OUT OF PACKING ADJUSTMENT	CNS-2-SW-P-B	06/11/2004
-	4382673	PM	06/10/2004	SET IMPELLER LIFT PER 7.2.45	CNS-2-SW-P-B	06/11/2004

Overhaul
low gland H₂O flow

-overhaul
-flush gland H₂O
-repacking
-packing.

pack

packing

packing
Packing
lift

sw-p-b

2-22-03

4256491

lift Adjustment

Operation 140

<p align="center"><u>CNS OPERATIONS MANUAL</u> MAINTENANCE PROCEDURE 7.2.45</p> <p align="center">SW PUMP LIFT ADJUSTMENT</p>	<p>USE: REFERENCE [Ⓢ]</p> <p>EFFECTIVE: 10/8/02</p> <p>APPROVAL: SORC</p> <p>OWNER: J. A. NICHOLS</p> <p>DEPARTMENT: MNT</p>
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REVISION VERIFICATION:		
(initial use + every 7 days)	<i>B. H.</i>	2-22-03

REV.	DATE	CHANGES
8	5/10/01	Incorporated EBS terminology.
9	see above	Deleted Step 2.2. Added Step 3.5, revised Steps 4.5, 4.7, and 6.1

1. PURPOSE

- [✓] 1.1 This procedure provides Maintenance personnel with instructions for adjusting impeller lift of a service water pump (CICs: SW-P-A, SW-P-B, SW-P-C, and SW-P-D).
- [✓] 1.2 This procedure also provides for recording AS FOUND and AS LEFT impeller lift settings for reference.

Qualifications Verified

2. PRECAUTIONS AND LIMITATIONS

- [✓] 2.1 The pump motor shall not be run when disconnected from pump without being absolutely certain sufficient clearance exists to prevent contact with the pump lift adjusting ring.
- [✓] 2.2 Ensure any steps marked N/A are recorded as discrepancies. Steps within the procedure that clearly indicate they are N/A if specified conditions are met are exempt from this requirement.
- [✓] 2.3 At least one performer shall have the ability, skill, training, or experience required for the general scope of work in which they are involved.
- [✓] 2.4 Certified measuring and mechanical gauging/test equipment shall be calibrated and data recorded on Attachment 1.

☒ 2.5 QC inspections shall be performed by personnel QC certified for the specific QC function.

☒ 2.6 Discrepancies shall be recorded on a Discrepancy Sheet.

3. REQUIREMENTS

☒ 3.1 Ensure following equipment and materials are available, as needed:

☐ 3.1.1 Common hand tools.

☒ 3.1.2 Feeler gauge.

☐ 3.1.3 Calibrated 0" to 1" micrometer.

☒ 3.1.4 Calibrated torque wrench capable of torquing to 80 ft-lbs.

☐ 3.1.5 Nickel Never-Seeze, thread lubricant (Q-94-484).

☒ 3.2 If performing initial pump lift adjustment, have Operations run pump for at least 1 hour just prior to setting lift to wash the pump clear of sand.

☒ 3.3 Record Approved Work Order/Maintenance Plan Number: 4256491

☒ 3.4 Record CIC: SW-P-B

☒ 3.5 SW System Engineer to determine approximate AS LEFT pump lift setting.

Approximate Impeller Lift Setting: .080

4. INSTRUCTIONS

☒ 4.1 Except for two diagonally opposite bolts, loosen and remove all bolts from coupling.

☒ 4.2 Evenly loosen the two remaining bolts, allowing pump shaft to lower, and then remove bolts.

☒ 4.3 Using strap or pipe wrench on pump shaft, shake and attempt to rotate pump shaft to ensure impeller is resting on the bottom.

☒ **NOTE** - If AS FOUND measurement in Step 4.4 is within the limits stated in Step 4.7, adjustment is not required.

☒ 4.4 (QC Witness) Using a feeler gauge, measure and record AS FOUND impeller lift by measuring gap between adjusting plate face and drive half coupling face and record reading.

AS FOUND Impeller Lift: 0.116 inch

Performed By: JMB

QC Signature/Date: Ken Bullard 2-21-03

☒ 4.5 Adjust pump lift to the approximate impeller lift setting from Step 3.5 by holding pump half coupling against turning and rotating adjusting plate.

☒ 4.6 Turn adjusting plate down until bolt holes will line up with nearest bolt holes in pump half coupling.

☒ 4.7 **AC** (QC Witness) Using a feeler gauge, measure and record AS LEFT pump lift. The AS LEFT pump lift shall be close to the approximate impeller lift setting from Step 3.5 and between 0.040" and 0.080".

AS LEFT Impeller Lift: 0.073 inch

Performed By: JMB

QC Signature/Date: Ken Bullard 2-21-03

☒ 4.8 Rotate driver shaft to align bolt holes of drive half coupling with adjusting plate.

☒ 4.9 (QC Hold) Inspect pump components as follows, recording any discrepancies found:

☒ 4.9.1 Pump coupling for damage, erosion, corrosion, and wear.

☒ SAT; ☐ UNSAT

☒ 4.9.2 Coupling bolts for damage, wear, galled, or stripped threads.

☒ SAT; ☐ UNSAT

QC Signature/Date: Ken Bullard 2-21-03

☒ 4.10 If any discrepancies are recorded, they shall be resolved.

[✓] 4.11 Apply thread lubricant to coupling bolts.

[✓] 4.12 Replace two coupling bolts and tighten progressively until secure; thereby closing gap above adjusting plate and raising impellers to the running position.

[✓] 4.13 (QC Witness) Install remaining coupling bolts and torque all bolts to 80 ft-lbs.

Performed By: JMB

QC Signature/Date: Kim Bullard 2-27-03

[✓] 4.14 Manually rotate shaft to be certain shaft is free to turn.

5. RESTORATION

[✓] 5.1 Sign in Clearance Order and release pump to Operations for testing.

6. ACCEPTANCE CRITERIA

[✓] 6.1 AS LEFT pump lift is between 0.040" to 0.080".

ATTACHMENT 1 SIGN-OFF AND REVIEW SHEET

STEP NUMBER	IDENTIFICATION NUMBER	DESCRIPTION	CALIBRATION DUE DATE
4.4/4.7	FS 6496	O-1 Mic	12-24-03
4.13	9505	Torque Wrench	1-14-04

Initials

Printed Name

Initials

Printed Name

1

KL i Kim Sullwold

1

1

1

1

1

JMB JEFFREY M. BRATSKOVSKY

Acceptance Criteria Satisfied: ☒ YES; ☐ NO

Discrepancies Recorded: ☐ YES; ☒ NO

If YES, all discrepancies are resolved.

Mechanical Maintenance

Supervision Review:

J. Bratskovsky

Date: 2/22/2003

System Engineer Review:

T. M. H.

Date: 3/4/03

RECORDS

Entire procedure is included with a Work Order for CNS Records (quality record upon TECO).

ATTACHMENT 1 SIGN-OFF AND REVIEW SHEET

Initial/date by each discrepancy or resolution listed.

#	DISCREPANCIES	#	RESOLUTIONS
	<p>NONE</p> <p>Kim Sullwold</p> <p>2-21-03</p>		<p>NONE</p>

ATTACHMENT 2 INFORMATION SHEET

1. DISCUSSION

- 1.1 Service water pumps are electric driven, single-stage, vertical turbine pumps.
- 1.2 Service water pumps provide cooling water for the Turbine Equipment Cooling System (TEC), Reactor Equipment Cooling System (REC), Residual Heat Removal System (RHR), and Diesel Generator Cooling Systems (DGJW and DGLO) heat exchangers. The system also provides suction for the screen wash and sparger pumps.
- 1.3 The four pumps are located in the Intake Structure Service Water Pump Room. The pumps are numbered 1A, 1C, 1B, and 1D starting from the north.

2. REFERENCES

2.1 VENDOR MANUALS

- 2.1.1 CNS Number 0180, Service Water Pumps.

B- SW PUMP LIFT FOLLOWING OVER

6/10/04

06/09/2004 Order #:4382673

RLTANNE Original Page 1

NPPD WORK ORDER OPERATIONS & MATERIAL LIST

Order 4382673 Order type PM CNS Planned Maintenance
Description SET IMPELLER LIFT PER 7.2.45
Start date 06/10/2004 End date 06/11/2004
Priority 3 important
Status REL ESTC MACM PRC SETC ISS TSTR
FunctLocation CNS-2-SW-P-B ABC Ind. E
SORT SW-P-B
Description SWP B
Programs:
IST SSEL
Location 903 Room SWP RM Plant Section IS
MaintPlanGroup CNS CNS Planning Dept MainWrkCenter MNTSHOPM CNS
MaintPlan 800000008753 MaintItem 12703
Required in Mode: Repair in Mode: 1 RUN

Tech Spec Ref.:

References: PM08297
RCR 2001-0129 #2

SET IMPELLER LIFT PER 7.2.45

SET IMPELLER LIFT FOR SW-P'S
Division II.

Qualifications Verified

PER SYSTEM ENGINEER (D.VORPHAL) GLAND FLUSHING NOT REQUIRED AT THIS
TIME. DUE TO ONE TIME PERFORMANCE OF THIS WORK, STEPS 50, 80, & 90 WERE
DELETED FROM THIS WORK ORDER. JRWHISL 6/2/04

WORK SIF'D INTO WEEK 424 AT T-0 ADDED TO PREVENT PUMP LIFT FROM ENTERING
ALERT RANGE DURING NEXT IST TEST, SCHEDULED 6/10/04
BRSTRAM 06/08/2004

CLEARANCE ORDER SW -1-4382673 SW-P-B LIFT ADJ.

PKG PRE-ISSUED PENDING CO SW -1-4382673 SW-P-B LIFT ADJ. SCSMALL
6-9-04.

Operation 0010 APPLICABLE SECTIONS OF 6.2SW.101
Status DSEX REL
Work center OPSCREW CNS ON SHIFT OPERATIONS
CompConfNo. 952221

Qualifications Verified

1-1 **NOTE** - If AS FOUND measurement in Step 4.4 is within the limits stated in Step 4.7, adjustment is not required.

- 4.4 (QC Witness) Using a feeler gauge, measure and record AS FOUND impeller lift by measuring gap between adjusting plate face and drive half coupling face and record reading.

AS FOUND Impeller Lift: 0.087 inch

Performed By: [Signature]

QC Signature/Date: [Signature] 06-10-04

- 4.5 Adjust pump lift to as close as possible to 0.100" gap (without exceeding this value) by holding pump half coupling against turning and rotating adjusting plate.

- 4.6 Turn adjusting plate down until bolt holes will line up with nearest bolt holes in pump half coupling.

- 4.7 **AC** (QC Witness) Using a feeler gauge, measure and record AS LEFT pump lift. The AS LEFT pump lift shall be as close to 0.100" as possible (without exceeding this value).

AS LEFT Impeller Lift: 0.092 inch

Performed By: [Signature]

QC Signature/Date: [Signature] 06-10-04

- 4.8 Rotate driver shaft to align bolt holes of drive half coupling with adjusting plate.

- 4.9 (QC Hold) Inspect pump components as follows, recording any discrepancies found:

- 4.9.1 Pump coupling for damage, erosion, corrosion, and wear.

☒ SAT; ☐ UNSAT

- 4.9.2 Coupling bolts for damage, wear, galled, or stripped threads.

☒ SAT; ☐ UNSAT

QC Signature/Date: [Signature] 06-10-04

- 4.10 If any discrepancies are recorded, they shall be resolved.

- 4.11 Apply thread lubricant to coupling bolts.

S	Order	Type	Bsc start	Short text	FunctLoc.	Basic fin.
-	4287050	CM	12/30/2002	FABRICATE ENVELOPING TUBES PER 3.21	CNS-2-SW-P-D	12/31/2002
-	4287200	CM	12/30/2002	REPAIR BOTTOM AND INTERMEDIATE COLUMNS	CNS-2-SW-P-D	01/03/2003
-	4287780	CM	01/03/2003	SW PUMP D FAILURE EXAMINATIONS	CNS-2-SW-P-D	02/03/2003
-	4256493	CM	01/07/2003	OVERHAUL "D" SERVICE WATER PUMP	CNS-2-SW-P-D	01/07/2003
-	4289093	CM	01/10/2003	ADD PACKING TO SW-P-D	CNS-2-SW-P-D	01/13/2003
-	1004560	LCO	12/28/2002	SW-P-D OVERHAUL LCO 3.7.2	CNS-2-SW-P-D	01/29/2003
-	4260039	PM	01/05/2003	SET IMPELLER LIFT PER 7.2.45 SEE NOTE	CNS-2-SW-P-D	01/29/2003
-	4288200	CM	02/05/2003	NEED TO RETORQUE FOUNDATION BOLTS PER 7.	CNS-2-SW-P-D	02/05/2003
-	1004501	LCO	01/03/2003	WK 02 D SW PUMP OVERHAUL AND DISCHARGE	CNS-2-SW-P-D	02/05/2003
-	4300977	CM	04/06/2003	INSPECT DIVISION II SW GLAND WATER PIPE	CNS-2-SW-P-D	04/08/2003
-	4300283	CM	04/17/2003	FLUSH SW-P-D GLAND SEAL LINE	CNS-2-SW-P-D	04/17/2003
-	4303499	CM	05/19/2003	ADJUST PACKING ON SW PUMP D	CNS-2-SW-P-D	05/19/2003
-	4315750	CM	06/17/2003	SWP D EXCESSIVE SEAL LEAKAGE	CNS-2-SW-P-D	06/19/2003
-	4295912	CM	06/05/2003	CLOSE OUT MNR 00 3466 ONLY	CNS-2-SW-P-D	06/05/2003
-	4321865	CM	09/16/2003	"D" SERVICE WATER PUMP GLAND LEAKAGE	CNS-2-SW-P-D	09/16/2003
-	1003355	LCO	00/26/2003	SWP D LIFT ADJ	CNS-2-SW-P-D	09/26/2003
-	4333508	CM	11/10/2003	PACKING LEAK AND NO ADJUSTMENT LEFT	CNS-2-SW-P-D	11/14/2003
-	4378723	CM	05/10/2004	SW-P-D NEEDS PACKING ADJUSTED	CNS-2-SW-P-D	05/11/2004
-	4361903	CM	06/21/2004	SW PUMP D NEEDS PACKING ADJUSTED	CNS-2-SW-P-D	06/21/2004
-	4338209	PM	06/07/2004	CANCEL EXAM PUMP & VALVE, REPLACE BOOT	CNS-2-SW-P-D	06/22/2004

overhaul lift
Packing
overhaul
gland water flush only

Inspect gland H₂O pipe
flush gland H₂O pipe.
packing.
packing

Packing
Lift
Packing Lift
Packing

Sw-P-D

Display CNS Maintenance Order 4333508: Central Header

Order	CH	4333508	PACKING LEAK AND NO ADJUSTMENT LEFT									
Sys Status	CLSD	CNF	PRT	GMCO	GNPS	MACH	PRC	SE	CLSR			
HeaderData Operations Components Costs Partner Objects Addit. Data Location Plan...												
Person responsible			Notifcn		10270449							
PlannerGrp			CNS / CNS		Planning Dept		Costs		596.73		USD	
Mn.wk.dr			MNTSHOPH / CNS		MAINTENANCE S		PMActType		007		Replace	
			SystCond									
			Address		BYRON JACKSO							
Dates												
Bsc start		11/10/2003		14:00		Priority		Important 3				
Basic fin.		11/14/2003		08:00		Sched Wnd						
Reference object												
Func. Loc.		CNS-2-SW-P-D		SWP D								
Equipment		10226166		P.VERTICAL.8000GPM								
Assembly												

Prints the window's content

D SW PUMP LIFT

11/13/03

Display CNS Maintenance Order 4333508: Operation Overview

Order: CH 4333508 PACKING LEAK AND NO ADJUSTMENT LEFT

Sys Status: CLSD CNF PRT GMCO GMPS MACH PRC SE CLSR

HeaderData

Operations

Components

Costs

Partner

Objects

Addit. Data

Location

Plan

Oper	SOp	Work Ctr	Plant	Co...	StTextKy	S	Operation short text	LT	Work	Un	N...	Durat	U
0010		OPSCREW	CNS	PH01	LC0	A	ENTER LC0 FOR SW-P-D		1.0H	1		1.0H	
0015		OPSCREW	CNS	PH01	PRETEST	A	APPLICABLE SECTION OF 6.2SW.101		1.0H	1		1.0H	
0020		OPSCREW	CNS	PH01	CO	E	HANG CO FOR SW-P-D		2.0H	2		1.0H	
0030		HNTSHOPH	CNS	PH01		E	ADD OR REPACK SW-P-D		2.0H	2		1.0H	
0035		HNTSHOPH	CNS	PH01		E	SET PUMP SET PER 7.2.15		4.0H	2		2.0H	
0040		OPSCREW	CNS	PH01	CO	E	RELEASE CO FOR SW-P-D		2.0H	2		1.0H	
0050		HNTSHOPH	CNS	PH01	POSTEST	A	NO EXCESSIVE LEAKAGE ON SW-P-D PACKING G		1.0H	1		1.0H	
0055		HNTSHOPH	CNS	PH01		A	I&C BACKFLUSH SW-FI-385B		1.0H	1		1.0H	
0060		OPSCREW	CNS	PH01	POSTEST	A	APPLICABLE SECTION OF 6.2SW.101		2.0H	2		1.0H	

General

Internal

External

Dates

Act. data

Enhancement

Permit

Prints the window's content

Display PM Order Confirmation: Actual data

Notification

Object list

MeasDocuments

Administr.

Order: 4333508 PACKING LEAK AND NO ADJUSTMENT LEFT

Operation: 0035 SET PUMP LIFT PER 7245

System Status: CONF DSEX CORSP PRT TEGO

Confirmation Data

Confirmation	803649	/	2
Work Center	HNTSHOPH CNS MAINTENANCE SHOP - MECHANICS		
Personnel No.	0	Wage Type	
Actual Work	1.50 H	Activity Type	TECH
	<input checked="" type="checkbox"/> Final Confirm	<input checked="" type="checkbox"/> No Remain. Work	Posting Date
	<input checked="" type="checkbox"/> Clear Open Res	Remaining Work	11/13/2003
Work Starts on	11/13/2003 09:15:00	Actual Duration	0.00 H
Work Ends on	11/13/2003 11:00:00	Forecast End	24:00:00
Reason			
Confirm text	GDROWLE PERFORMED LIFT PER 7245 AS <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		

Total Confirmation Data

Cum Actual Work	3.00 H	ActDuratn	1.50 H
Forecasted Work	3.0 H	PlannedDuration	2.0 H
Actual Start	11/13/2003 09:15:00	Actual Finish	11/13/2003 11:00:00

Prints the window's content

GDROWLE PERFORMED LIFT PER 7.2.45. AS FOUND LIFT WAS .077" AND
AS LEFT LIFT WAS .094".

Display CNS Maintenance Order 4256493: Operation Overview

Order CH 4256493 OVERHAUL "D" SERVICE WATER PUMP

Sys Status CLSD CNF PRT CSER GMCO GMPS MACH PR CLSR

HeaderData

Operations

Components

Costs

Partner

Objects

Addit. Data

Location

Plan

Oper	SOp	Work Ctr	Plant	Co	StExtKy	S	Operation short text	LT	Work	Un	N	Durat	U
0149		HNTSHOPH	CNS	PH01		E	ADJUST SW-P-D LIFT PER 7.0.15		2.0H	2		1.0H	
0150		OPSCREW	CNS	PH01	CO	E	RELEASE C.O. FOR SW-P-D		2.0H	2		1.0H	
0160		OPSCREW	CNS	PH01	POSTEST	A	APPLICABLE PORTIONS OF 6.2SW.101		1.0H	1		1.0H	
0170		OPSCREW	CNS	PH01	POSTEST	A	7.0.8.1 (SLT FOR SW-P-D AND SW-EXPJ-SWPD		1.0H	1		1.0H	
0180		HNTPREDI	CNS	PH01	POSTEST	A	VIBRATION ANALYSIS SAT. FOR SW-P-D		1.0H	1		1.0H	
0185		NEDMHS1	CNS	PH01		A	(ENG HOLD) PRIOR TO SYSTEM TURNOVER TO O		1.0H	1		1.0H	
0190		OPSCREW	CNS	PH01	LCO	A	EXIT LCO FOR SW-P-D		1.0H	1		1.0H	
0200		HNTSHOPH	CNS	PH01		A	REINSTALL INSULATION PER 7.0.13		2.0H	2		1.0H	

General

Internal

External

Dates

Act. data

Enhancement

Permit

Prints the window's content

D SW PUMP LIFT FOLLOWING OVERHAUL

✓ 3/03

Display PM Order Confirmation: Actual data

Notification Object List MeasDocuments H Administr. 

Order: 4256493 OVERHAUL D SERVICE WATER PUMP
Operation: 8140 ADJUST SWAP D LIFT PER 7215
System Status: CNF DSEXORS PRT TECO

Confirmation Data

Confirmation: 569136 / 1
Work Center: HNTSHOPM CNS MAINTENANCE SHOP - MECHANICS
Personnel No: 0 Wage Type:
Actual Work: 1.00 H Activity Type: TECH Posting Date: 01/03/2003
☒ Final Confirmtn ☒ No Remain! Work AcctIndicator:
☒ Clear Open Res Remaining Work: 0.00 H
Work Starts on: 01/03/2003 17:30:00 Actual Duration: 0.0 H
Work Ends on: 01/03/2003 18:30:00 Forecast End: 24:00:00
Reason:
Confirm. text: KDSULLW & HDBODEN RESET LIFT AS FOUND WA ☒ ☒

Total Confirmation Data

Cum. Actual Work: 1.00 H ActDuratn: 0.5 H
Forecasted Work: 1.0 H Planned Duration: 1.0 H
Actual Start: 01/03/2003 17:30:00 Actual Finish: 01/03/2003 18:30:00

Prints the window's content

KDSULLW & MDBODEN RESET LIFT AS FOUND WAS 0.079 AND AS LEFT WAS 0.079 TORQUED COULPING BOLTS TO 80 FT POUNDS RETURNED TO SERVICE.