FEB 07 1995

STAF 3

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 606847

2. To: (Receiving Organization) TWRS Engrg, Upgrades Technical Support		3. From: (Originating Organization) TWRS Engrg, Upgrades Technical Support		4. Related EDT No.: N/A							
5. Proj./Prog./Dept./Div.: N3217 / 71620		6. Cog. Engr.: R. G. Strand 373-3572		7. Purchase Order No.: N/A							
8. Originator Remarks: ETN-94-0078 This document will serve as the Engineering Task Plan for completing the upgrade of the BX/BY instrument air system.				9. Equip./Component No.: N/A							
				10. System/Bldg./Facility: 241-BX/BY							
11. Receiver Remarks: <div style="text-align: center;">RECEIVED MAR 09 1995 OSTI</div>				12. Major Assm. Dwg. No.: N/A							
				13. Permit/Permit Application No.: N/A							
				14. Required Response Date: 01-31-95							
15. DATA TRANSMITTED											
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted		(F) Approval Designator	(G) Reason for Trans- mittal	(H) Origina- tor Dispo- sition	(I) Receiv- er Dispo- sition		
1	WHC-SD-WM-ETP-058		0	Engineering Task Plan for BX/BY Compressor Upgrades		Q	2		1		
16. KEY											
Approval Designator (F)		Reason for Transmittal (G)				Disposition (H) & (I)					
E, S, Q, D or N/A (see WHC-CM-3-5, Sec. 12.7)		1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)				1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged					
(G)	(H)	17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)						(G)	(H)		
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
1	1	Cog. Eng. RG Strand	<i>[Signature]</i>	01/30/95	S2-24	Maint Mgr DG Hert			R2-88	3	
1	1	Cog. Mgr. WW Jenkins	<i>[Signature]</i>	1/24/95	S2-24	East TF Engr Mgr RA Dodd			R2-70	3	
1	1	QA JJ Verderber	<i>[Signature]</i>	2/7/95	S1-57	East TF Sys Cog Eng W Meeuwsen			S5-05	3	
		Safety				CENTRAL FILES	<i>[Signature]</i>	18-04		3	
		Env.				O.S.T.I.	<i>[Signature]</i>	18-07		3	
3		Oper East Mgr R Ni			S5-07						
18.		19.		20.		21. DOE APPROVAL (if required) Ctrl. No.					
R. G. Strand <i>[Signature]</i> 01/30/95 Signature of EDT Originator		R. G. Strand <i>[Signature]</i> 01/30/95 Authorized Representative for Receiving Organization		W. W. Jenkins <i>[Signature]</i> 1/24/95 Cognizant Manager		☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments					

BD-7400-172-2 (04/94) GEF097

BD-7400-172-1 (07/91)

RELEASE AUTHORIZATION

Document Number: WHC-SD-WM-ETP-058, REV 0

Document Title: ENGINEERING TASK PLAN FOR BX/BY COMPRESSOR UPGRADE

Release Date: 2/7/95

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Kara M. Broz

February 7, 1995

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SUPPORTING DOCUMENT		1. Total Pages 21
2. Title ENGINEERING TASK PLAN FOR BX/BY COMPRESSOR UPGRADE	3. Number WHC-SD-WM-ETP-058	4. Rev No. 0
5. Key Words 241 BX, BY, Instrument, Air, Compressor, Upgrade, ABU, IA	6. Author Name: R. G. Strand <i>R. G. Strand</i> Signature Organization/Charge Code 71620/N3217	
7. Abstract This Engineering Task Plan documents the process to upgrade the BX/BY tank farm instrument air system.		

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8. RELEASE STAMP
<div style="border: 1px solid black; padding: 5px; text-align: center;"> OFFICIAL RELEASE BY WHC DATE FEB 07 1995 STA#3 </div>

ENGINEERING TASK PLAN NO: WHC-SD-WM-ETP-058

TITLE: BX/BY COMPRESSOR UPGRADES

AUTHOR: R. G. Strand

DATE: December 1994

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MASTER

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1.0 SCOPE

This Engineering Task Plan outlines the remaining work to be completed for the BX/BY Instrument Air upgrade. Initial work efforts were guided by Engineering Work Plan, "BX-BY Compressor Upgrade" dated 1-25-93 (see Attachment A) which is provided for information.

The overall engineering task is to provide a permanent replacement for the instrument air supply system for the 241-BX/BY Tank Farms. The existing system consists of a 25 horsepower Worthington non-lube compressor and an Oriad air dryer. The existing equipment is dated, requires high maintenance and is located in a contaminated zone making it unusable.

The BX/BY instrument air replacement unit will be one of the 100 SCFM generic air stations as recommended in Alternative 5 of WHC-SD-WM-ES-250, "Engineering Study of Portable Instrument Air Supply Options." This station will be permanently sited with the addition of drawing changes to provide a concrete foundation, air piping to existing lines and electrical power supply tie-ins.

2.0 DESCRIPTION

2.1 Design

The BX/BY instrument air usage is based on the design information in WHC-SD-WM-ES-250 and Internal Memo, Single-Shell Tanks to T.R.Wilson, dated March 8, 1993 (see Attachment B) and replaces the need for a separate "Compressed Air System User Inventory" identified in Attachment A. The design specifics will be as developed and presented in the procurement specification for the 100 SCFM generic compressed air station.

2.2 Deliverables

The Engineering Deliverables for this task plan are as follows:

- Procurement specification for the generic 100 SCFM compressed air station as recommended in Alternative 5, WHC-SD-WM-ES-250. STATUS: The specification WHC-S-0235, Rev. 1 was completed and issued. The compressed air station was fabricated and shipped to the site under Purchase Order MDW-XVV-388564.
- Site specific design to cover the permanent installation of the 100 SCFM air station at BX/BY tank farms. This includes as a minimum, released ECNs or drawings for the air station pad, electrical power tie-ins and air piping connections between the air station unit and existing tank farm instrument air systems. STATUS: ECN's 608026, 610260, 702052 and 702894 have been issued to complete the design for the installation.
- The "Acceptance for Beneficial Use" (ABU) checklist to insure a complete and acceptable turnover from TWRS Engineering to TWRS Operations is being used in coordination with TWRS Upgrades Team meetings to track the deliverables for this upgrade. See Attachment C for a "Preliminary" copy.

3.0 RESPONSIBILITIES

- The overall responsibility to provide the design, installation, testing, technical information and complete the turnover to TWRS Operations for this upgrade. (Design Agent)

ORGANIZATION: TWRS Engineering, Upgrades Technical Support

- The responsibility to verify and approve conformance of this upgrade design with the plant design basis. (Design Authority)

ORGANIZATION: TWRS Engineering, East TF Plant Engineering

- The specific assignments for completing the specific tasks within this upgrade are documented in the ABU. The ABU identifies the required tasks, assigns the responsible organization and personnel and tracks the progress to completion. The ABU will be further defined and completed as the upgrade proceeds. Upon upgrade completion this task plan will be revised to include the completed ABU.

4.0 SCHEDULE

The FY-95 schedule calls for a Westinghouse key milestone, T2C-95-134, "BX/BY MODULAR COMPRESSOR TURNOVER TO OPS" to be completed by May 26, 1995. The target date for completion is Apr 26, 1995.

5.0 COST ESTIMATE

The FY-95 budget to complete the BX/BY Compressor Upgrade is :

TPCN N3188, Plant Operating Procedures - \$ 87000

TPCN N3217, Test and Turnover - \$ 81000

ENGINEERING WORK PLAN

BX-BY COMPRESSOR UPGRADE

PROJECT MANAGER (KEH)

1-25-92
DATE

Not REQD
PROJECTS DEPARTMENT MANAGER (KEH)

UPGRADES TECHNICAL SUPPORT (WIIC)

DATE
1-25-93
DATE

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1.0 INTRODUCTION

The 241-BX/BY Air Compressors are in the worst condition of all the Tank Farm compressors. The Air Compressor facility is located within the Tank Farm boundary, in a contaminated zone. Maintenance of the system is difficult due to its location and the inherent hazards of the contamination.

As part of the design activity, a study will be performed to create a Compressed Air System User Inventory (CASUI) for Instrument Air Systems which will be used as a Design Basis Supporting Document for performing the replacement activity.

2.0 SCOPE

The activities defined in this work plan will be performed to support the Compressor Upgrades effort directed by ESR # 920110.

2.1 OBJECTIVES

The objectives are to provide a reliable source of Instrument Quality Compressed Air to the 241-BX/BY Tank Farms and to create a CASUI as a basis for the replacement activity and for additional upgrades.

2.2 DELIVERABLES

The Engineering deliverables for this effort are as follows:

- Design Cost Estimate
- CASUI
- Procurement Specification
- ECN for Release into the WIC Document Control System
- Complete Design of the new Installation (Design File)
- ATP
- OTP

3.0 DESIGN CRITERIA

The Design Criteria provide the minimum concepts and provisions to form the basis for and provide limitations governing the design of a complete, safe, and operable facility adequate for its intended purpose.

- The electrical system shall be documented to provide adequate power and modifications shall be designed according to the latest edition of the National Electrical Code and all other applicable codes.
- All modifications impacting the structural integrity of the building shall be analyzed and made to conform to UBC codes.
- Building ventilation shall be considered and, if necessary, modified to insure proper operation of the Compressed Air System.
- Air piping shall be specified and designated on drawings and ECN's according to applicable M-codes. (Reference II-2-31750 Rev. 1). Piping shall be installed and tested according to ANSI/ASME (B31.1 or B31.3) latest Revisions.
- All new piping supports shall be analyzed per SDC 4.1.
- All Compressed Air Piping shall be insulated as required for personnel safety.
- Instrument Quality Air shall meet Instrumental Society of America Standard S7.3 and Recommended Procedure RP7.7
- Piping shall be provided for bypass around Air Dryer and Filters.
- The Prefilter and After Filter for the Air Dryer shall be equipped with differential pressure indicators.
- Condensation drains shall be located at low points in the compressed air piping which is modified. Drains shall be piped to appropriate locations for collection and disposal.
- An Air Flow measurement device shall be provided in the Compressed Air System downstream of the air receiver.
- A Safety Relief Valve shall be provided to protect the system from excessive pressures.
- Provisions for an Emergency/Temporary Air supply shall be provided upstream of all Filters and Dryers. A High Efficiency Coalescing Filter shall be included upstream of the filters and dryer.
- Access into the Compressed Air System shall be provided downstream of the Air Dryer for Air Dew point Testing. This access shall include a valve with a 3/8 inch NPT plug at the outlet.

4.0 DESCRIPTION**4.1 PHYSICAL DESCRIPTION**

The compressed air system which supplies Instrument Quality compressed Air to the 241-BX/BY Tank Farm will be replaced. The existing system consists of the following:

- 25 hp Worthington Non-Lube Compressor
- Oriad Air Dryer

4.2 ENGINEERING TASKS**4.2.1 Compressed Air System User Inventory (CASUI)**

The purpose of System Compressed Air User Inventory is to provide a basis for the engineering effort being performed. The Compressed Air System User Inventory shall explain in detail the approach for the task of analyzing the Compressed Air System. It shall include the following:

- A list of the data which will be gathered
- A description of the methods to be used to gather the data
- A list of assumptions, uncertainties, and explanations thereof
- Drawings which show the configuration and installation of any data acquisition apparatus
- The final presentation of the results.
- The information requested to be included in this CASUI is as follows for each air using component:
 1. Make, model and ID number.
 2. Drawing and zone where it is located.
 3. Operating pressure.
 4. Average air consumption in SCFM.
 5. Maximum possible air consumption.
 6. Percentage of time component is demanding air.
 7. Current status.
 8. Apparent condition.

4.2.2 Procurement Specification

The Procurement Specification for the units required for the Upgrade effort includes the definition of the specific criteria for selection of the replacement units.

4.2.3 Compressed Air System Upgrade Design

The deliverable of the completed design is a Design File. The complete Design File will provide explanation of all design decisions made during the design process for the Compressed Air System. It shall include the following:

- Copies of all communications which contribute to the direction of the design
- Calculations used for analysis pertaining to, but not limited to the following topics: Seismic, Electrical, Structural, HVAC, and Environmental.
- Working files of Certified Vendor Information for each piece of equipment where needed to support organizational responsibilities and facilities.
- A List of spare parts recommended to support the system for normal operation. The list of Recommended Spare Parts created for the Upgraded Air System shall include items which wear quickly and/or are low cost items required for regular maintenance. It should include: Filters, Drive Belts, Lubricants, etc...
- Equipment Installation Instructions (Included as "ECN ONLY" reference notes on the ECN)

4.2.4 Engineering Change Notice

An ECN will be created against existing drawings for the installation. The ECN Shall satisfy the requirements of WHC-CM-6-1, Standard Engineering Practices, EP-2.2, REV 5, "Engineering Document Change Control"

5.0 SCHEDULE

DELIVERABLE	DATE	COMMENTS
COST ESTIMATE	February 1, 1993	Submitted for approval
ECN DRAFT	February 24, 1993	Sketches to show general configuration and locations of equipment.
ECN FINAL IFA Includes: Calculations, instructions, specifications, etc.	March 24, 1993	ECN complete from KEH Issued For Approval by KEH to WHC
ECN RELEASE	April 14, 1993	ECN released as complete for the installation to begin.
ATP DRAFT RELEASE	May 7, 1993 May 27, 1993	Released as an official ATP for implementation.
OTP DRAFT RELEASE	May 7, 1993 May 27, 1993	Released as an official OTP for implementation.
CASUI DRAFT RELEASE	February 24, 1993 April 14, 1993	Released as a Design Basis Supporting Document.

6.0 COST ESTIMATE

The Cost estimate for the work shall provide the total cost and man hours for the items required in this plan. It shall include the assumptions used in preparing the estimate.

7.0 QUALITY ASSURANCE

7.1 Impact Level

The Impact Level assigned to 241-BX/BY Compressor Upgrades is in accordance WHC-CM-1-3 Management Requirements and Procedures MRP-5.43, "Impact Levels". The Supporting Document as well as ECN's generated against existing II-2-Drawings shall be Impact Level (3 SQ).

7.2 Design Review

The Design Review is the process of evaluating the design as provided for by WHC-CM-6-1, Standard Engineering Practices, EP-4.1, "Design Verification Requirements", and as dictated by the Impact Level And Safety Classification. The Design Shall receive an Informal Review.

8.0 SAFETY

Safety Classifications for the 241-BX/BY Tank Farm Compressed Air System Upgrade shall be in accordance to WMC-CM-6-1, Standard Engineering Practices EP 1.4, "Safety Classification". The Compressed Air System Upgrade shall be Safety Class (3).

9.0 ORGANIZATIONAL RESPONSIBILITIES

KEH is responsible for providing the following:

- Design Cost Estimate
- CASUI
- Procurement Specification
- Design of Compressed Air System.
- Engineering Change Notice (ECN)
- Acceptance Test Procedure
- Operational Test Procedure
- Resolution of Comments generated by WMC design review.

10.0 TECHNICAL SUPPORT

Technical Support is the groups/individuals responsible for the systems affected by the Compressed Air System upgrade. The listing below is intended to identify the points of contact for information and review purposes, not to assign responsibility.

-Single Shell Tank Farms Cog.	Allen Alstad
-Electrical Cog.	Rich Larson
-Support Systems Cog.	Steve Riesenweber
-Support Systems Responsible Engineer	Jim Tuck
-Operations Facility Representative	Greg Brodaczynski

**Westinghouse
Hanford Company****Internal
Memo**

From: Single-Shell Tanks
Phone: 3-5549 R1-49
Date: March 8, 1993
Subject: INSTRUMENT AIR REQUIREMENTS FOR 241-BX AND 241-BY FARMS

7C242-93-007

To: T. R. Wilson SO-09
cc: A. J. Kostelnik SO-09
V. C. Boyles R1-49
JHH:VCB File/LB

Per your request, the instrument air requirements for the subject farms were determined. Please refer to the table below for our results.

Tank	Component	Air Consumption
BY-102	Instrument Cabinet	5 scfh
BY-103	Instrument Cabinet	5 scfh
BY-105	Instrument Cabinet	5 scfh
BY-109	Instrument Cabinet	5 scfh
241-BY FARM	*Liquid Level Reels	636 scfh (total)
241-BX FARM	*Liquid Level Reels	636 scfh (total)
Combined Total		1292 scfh = 21.5 scfm

* Not all tanks currently have liquid level reels requiring air purge. However, it is expected the tanks in these farms will eventually utilize these devices throughout.

The table lists tanks in BY Farm not yet stabilized and therefore requiring the use of a Weight Factor Instrument Enclosure (WFIE) Cabinet. It is also known that the WFIE on emergency pumping equipment which is identical to those WFIE's in the field require air 3-5 horse-power air compressors. Also, each air-purged liquid level reel will require 23-53 scfh and there is usually one per tank.

If you have any additional questions, please contact me at 373-5549.

Sincerely,

John H. Huber, Engineer
Single-Shell Tanks Engineering

lmt

PROJECT/UPGRADE TITLE BY/BY COMPRESSOR PROCEDURES NUMBER _____ ETN _____ December 12, 1994

ACCEPTANCE for BENEFICIAL USE (ABU) OVERALL TEAM FOLLOW Actionee/Due Date			
DESCRIPTION	RESPONSIBILITY	DUE DATE	STATUS
ENGINEERING (AGENT)			
Acceptance Test Procedures (ATP) [release/do/report]	Rich Strand	Complete	
Identify, Order, and Distribute Vendor Information	Rich Strand	Complete	
Operations Essential Drawings Complete for Turnover	Rich Strand		If any are identified by COG
Submit All Project Generated ECN's & Funding	Rich Strand		At turnover
Field ECN's Reviewed and Released	Rich Strand		On going
Release Operational Test Procedure (OTP)	Rich Strand	12/16	Include solenoid valve installation
Update H-14 Drawings	Rich Strand		Give draft to Purcell with funding
Provide CVI Data to Maintenance with Spare Parts Recommendation	Rich Strand	12/09	
Assemble/Prepare Turnover Documentation	Rich Strand		
Incorporate ICF/KH Paper (PCP, Mat'l, etc) Into Retrievable WHC Files	Rich Strand		CVI data all that's left

ATTACHMENT C

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PROJECT/UPGRADE TITLE BY/BY COMPRESSOR PROCEDURES NUMBER _____ ETN _____ December 12, 1994

ACCEPTANCE for BENEFICIAL USE (ABU) OVERALL TEAM FOLLOW Actionee/Due Date			
DESCRIPTION	RESPONSIBILITY	DUE DATE	STATUS
Temporary Procedure Changes to Support Project	Rich Strand	Complete	Not required
Recommend Updates to Logs/Roundsheets	Rich Strand		Give to Bruce Raymond Include Ranges for Indications
Recommend Periodic Recall Changes, Modify Data Sheets	Rich Strand		Give to Larry Orcutt
Evaluate 3' Easement for 480v Transfer Switch	Rich Strand	12/09	
Training Input	Rich Strand	12/15	Get input to Lou Simmons
ENGINEERING (AUTHORITY)			
Determine Essential Drawings	Bill Meeuwsen	12/15	Should H-14 Flow diagrams be essential?
Complete USQ for Procedures	Bill Meeuwsen	12/15	
Identify Calibration Requirements	Bill Meeuwsen	12/15	Relief valves? Gages? Alarms?
Operational Test Report (OTR = OTP Results)	Bill Meeuwsen		
Approve Turnover Documentation	Bill Meeuwsen		
Approve Initial and Final Designs	Bill Meeuwsen		Initial Complete
Verify Vendor Information	Bill Meeuwsen		
Verify Spare Parts List	Bill Meeuwsen		

ATTACHMENT C

PROJECT/UPGRADE TITLE BY/BY COMPRESSOR PROCEDURES NUMBER _____ ETN _____ December 12, 1994

ACCEPTANCE for BENEFICIAL USE (ABU) OVERALL TEAM FOLLOW Actionee/Due Date			
DESCRIPTION	RESPONSIBILITY	DUE DATE	STATUS
TRAINING			
Review Documents to Verify and Accept J-6	Lou Simmons		
Training Plan	Lou Simmons		Rich Strand has input for training
Operating Crew Training	Lou Simmons		
Update Certification Pkg	Lou Simmons	Complete	Not Required
J-6 Block 6 Complete for Training	Lou Simmons		
OPERATIONS			
Walkdown & Verify Operating Procedure Changes	Gary Duncan		use draft for OTP
Review J-6 Input to Verify Accurate & Complete	Gary Duncan		
Emergency Preparedness	Mark Hunn	12/15	Get with Dave Rowland
Perform OTP	Gary Duncan		
Verify Priority, Agree to Support on Schedule	Gary Duncan		
J-6 Block 6 Complete for Operations	Gary Duncan		
Update Critical Equipment List	Gary Duncan		

ATTACHMENT C

PROJECT/UPGRADE TITLE BY/BY COMPRESSOR PROCEDURES NUMBER _____ ETN _____ December 12, 1994

ACCEPTANCE for BENEFICIAL USE (ABU) OVERALL TEAM FOLLOW Actionee/Due Date			
DESCRIPTION	RESPONSIBILITY	DUE DATE	STATUS
PROCEDURES			
Fill out J-6 for Operating Procedures	Bruce Raymond	12/09	Forward to Larry Orcutt immediately
Develop Operating Procedures	Bruce Raymond		Work TX/TY at same time
Develop Roundsheets	Bruce Raymond		Work TX/TY at same time
Develop Alarm Response Procedure	Bruce Raymond		Work TX/TY at same time, include in Plant Operating Procedure
MAINTENANCE			
Identify Maintenance Procedure Req'mnts on J-6	Larry Orcutt	12/13	Forward to Jake immediately
Input Spare Parts Identification	Larry Orcutt	12/16	
Functional Test Procedures	Larry Orcutt		by OTP..in service pressure test required to verify piping joints
Develop Calibration Procedures	Larry Orcutt		by turnover
Develop JCS Recall Procedures, Schedules, Data Sheets	Larry Orcutt		Release for turnover Calibrations to be done by OTP
Update Comprehensive Equipment List	John Purcell	5/1	

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ACCEPTANCE for BENEFICIAL USE (ABU) OVERALL TEAM FOLLOW Actionee/Due Date			
DESCRIPTION	RESPONSIBILITY	DUE DATE	STATUS
Ensure Component Labeling Complies with Requirements	John Purcell	5/1	
Update Alarm Maintenance Procedures	Larry Orcutt		release for turnover
J-6 Block 6 Complete for Maintenance	Larry Orcutt		
QUALITY ASSURANCE			
Work Package has Acceptable Inspection Plan with Hold/Witness/Verify Steps	Allen Tuel		Additional approval only required if modifications to system are necessary
UPGRADES			
Coordinate Team Efforts	Jake Jacobson		
Generate J-6, Provide Training Requirements	Jake Jacobson	12/15	Route to Lou Simmons for Acknowledgement
Prepare/Approve JCS Work Documents	Dave Moore		# 2E-93-2274/W May have J-7 if modifications required
Establish Team	Jake Jacobson	Complete	
Maintain Team "ABU"	Jake Jacobson		Ongoing
J-6, ABU, Turnover Package Complete and Signed, Project Complete	Dave Moore		by turnover
Perform Functional Test	Dave Moore		

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ACCEPTANCE for BENEFICIAL USE (ABU) OVERALL TEAM FOLLOW Actionee/Due Date			
DESCRIPTION	RESPONSIBILITY	DUE DATE	STATUS
Complete Painting of Air Piping	Dave Moore		
MISCELLANEOUS			
Define "Owner" for Upgrade	Ray Thygesen	Complete	Gary Dunford, but the TEAM owns completion of work to meet milestone
"Owner" Promulgate Funding Information (TPCN's, etc)	Eric Biebesheimer	Complete	Procedures N3188, Test/Turnover N3217 We have to watch ICF/KH "estimates"
Project File in Storage after Completion	Rich Strand		
Incorporate Project Generated Essential ECN's	Rich Strand		Design Engineering
J-6 Block 6 Complete for Procedures & Training	Dave Moore		by turnover
Open Items/Punch List Tracking (Quest?)			NEXT MEETING 12/15

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TWRS UPGRADE Team - BX/BY Procedures & Turnover

Maintenance Upgrade Tasks	WHC-CE Manager Engineer -Design Agent-	Plant Engineer Manager Cog Engineer -Design Authority-	Operations Manager Operations Rep	Maintenance Manager Maintenance Rep	Quality Ass WHC Manager WHC Rep [ICF KH]	Environ. WHC [ICF KH]	ICF KH Task Lead Lead Engineer -Design Agent-	Upgrades Major Maint Manager PIC
BX/BY Compressor Procedures & Turnover	Bill Jenkins Rich Strand	Ryan Dodd Bill Meeuwsen	Doug Craig Gary Duncan* Mark Hunn	Denny Hert Larry Orcutt				Jim Crawford Dave Moore
DO NOT USE								

Ray Thygesen - Scheduling and Support

Jake Jacobson - Team Coordination

* Shift Manager working OTP

ATTACHMENT C

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