

SEP 09 1999 20  
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## ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 627416

2. To: (Receiving Organization) West Tank Farms		3. From: (Originating Organization) Tank Farms Engineering		4. Related EDT No.: N/A							
5. Proj./Prog./Dept./Div.: Master Equipment List		6. Design Authority/ Design Agent/Cog. Engr.: W. J. Powell / G. L. Hickman M. F. Erhart		7. Purchase Order No.: N/A							
8. Originator Remarks: Master Equipment list for the RAPID project				9. Equip./Component No.: N/A							
				10. System/Bldg./Facility: 241-SY-101							
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				13. Permit/Permit Application No.: N/A							
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1	RPP-5051		0	Master Equipment List for the RAPID Project	Q, S						
16. KEY											
Approval Designator (F)		Reason for Transmittal (G)			Disposition (H) & (I)						
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		2. Release	5. Post-Review		2. Approved w/comment	5. Reviewed w/comment					
		3. Information	6. Dist. (Receipt Acknow. Required)		3. Disapproved w/comment	6. Receipt acknowledged					
17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)											
(G) Reason	(H) Disp	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp	(J) Name	(K) Signature	(L) Date	(M) MSIN
1		Design Authority W. J. Powell	GLH 9/2/99			1		QA M. L. McElroy	RL	8/26/99	57-07
1	1	Design Agent G. L. Hickman	GLH 8/25/99	8/25/99		1	1	Design Engineer Mgr C. E. Hanson	RL	8/26/99	57-07
1	1	Cog. Eng. M. F. Erhart	GLH 9-8-99	9-8-99	57-70	1	1	Safety L. S. Krosrud	RL	9-8-99	57-79
1	1	Cog. Mgr. R. W. Reed	RL	8/26/99	4889997407						57-34
1	1	Equipment Engr. D. Smet	RL	8/26/99	4889997407	1	1	RL	8/26/99	4889997407	57-34
3		Central Files B1-07				3		RL	Reading Room		H2-53
18. <u>G. L. Hickman</u> 9/25/99 Signature of EDT Date Originator		19. <u>R. W. Reed</u> 8/26/99 R. W. Reed Authorized Representative Date for Receiving Organization		20. <u>R. W. Reed</u> 8/26/99 R. W. Reed W. J. Powell Design Authority/ Cognizant Manager		21. DOE APPROVAL (if required) Ctrl. No. [ ] Approved [ ] Approved w/comments [ ] Disapproved w/comments					

# Master Equipment List

for the RAPID PROJECT

G. L. HICKMAN, Fluor Daniel Northwest, Inc.

for Lockheed Martin Hanford Company

Richland, WA 99352

U.S. Department of Energy Contract DE-AC06-96RL13200

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RAPID, waste transfer; SY Farm, 241-SY-101, Master Equipment List, MEL

## Abstract:

The Respond and Pump in Days (RAPID) project was initiated to pump part of the contents of tank 241-SY-101 into tank 241-SY-102. This is the Master Equipment List (MEL) for this project document.

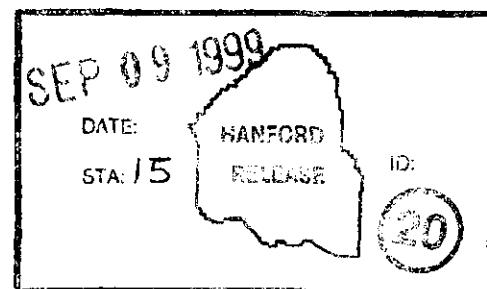
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*Janis Aarstad* 9-9-99  
Release Approval

Date



Release Stamp

Approved For Public Release

## **MASTER EQUIPMENT LIST FOR THE RAPID PROJECT**

### **INTRODUCTION**

The Respond and Pump in Days (RAPID) project was initiated to pump part of the contents of tank 241-SY-101 into tank 241-SY-102. This document identifies all the equipment used on the RAPID project.

### **MASTER EQUIPMENT LIST (MEL) DEVELOPMENT**

The MEL was developed using the RAPID project drawings, both released and in draft form. Safety classification of items is based upon HNF-4531, RAPID Project SEL.

### **DATA FORMAT**

The format of the MEL complies with requests from Equipment Engineering. This format provides a quick reference to the information as listed below:

- The equipment identification number(s) (EINs) or tag number(s) associated with the item
- The description of the item
- The Field Tag, Line 1, as assigned by the tagging group
- The Field Tag, Line 2, as assigned by the tagging group
- The Old ID field. This is a listing of what an EIN was called in earlier stages of the design. This field is for information only and is not necessarily complete or correct.
- Any comments related to the item.
- The manufacturer and model number of the item
- The power supply breaker for the item, as applicable
- A loose categorization of the item, Electrical, Mechanical, or Instrumentation
- A Calibration procedure and Data Sheet number, as applicable
- The CVI number
- The H-14 drawing (PID)
- A listing of the project drawings. This field is for information only and is not necessarily complete or correct.

This document is sorted by the location, such as the DACS Trailer Operator Panel or the Portable Water Supply Skid, and then by the EIN. This groups items by physical location for ease of review.

## Master Equipment List for the RAPID Project

Location	EPN Description	Manufacturer Model Number	Procedure Number Data Sheet No	Essential Drawings
Field Tag Line 1	Power supply bkr			H-14 # H-14 rev
Field Tag Line 2	Mech/Elec/Inst			H-14 sht
Old ID	Safety Classification			Project Drawings
Comments				
<i>DACS Trailer: Operator Panel</i>				
2K1	Square D 8501 XDO40V53 SV272-WT-EDS-DP-108 CKT 22 Elec GS	N/A N/A 50071	N/A N/A H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;	N/A N/A N/A
2K2	Square D 8501 XDO40V53 SV272-WT-EDS-DP-108 CKT 22 Elec GS	N/A N/A 50071	N/A N/A H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;	N/A N/A N/A
2K3	Square D 8501 XDO40V53 SV272-WT-EDS-DP-108 CKT 22 Elec GS	N/A N/A 50071	N/A N/A H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;	N/A N/A N/A

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings	
					H-14 #	H-14 rev
Field Tag Line 1	Power supply bkr	Mech/Elec/Inst	CVI#	CVI#	H-14 sht	Project Drawings
Field Tag Line 2						
Old ID		Safety Classification				
Comments						
2K4		Square D	N/A	N/A	N/A	
	Control Relay for Low Dilution Water Temperature	8501 XDO40V53	N/A	N/A	N/A	
		SY272-WT-EDS-DP-108 CKT 22				
		Elec	50071			
		GS				
2K5		Square D	N/A	N/A	N/A	
	Control Relay for Transfer Pump E Stop	8501 XDO40V53	N/A	N/A	N/A	
		SY274-WT-EDS-DP-112 CKT 17				
		Elec	50071			
		GS				
2K6		Square D	N/A	N/A	N/A	
	Holding Relay for SY272-WT-VFD-350	8501 XDO40V53	N/A	N/A	N/A	
		SY272-WT-EDS-DP-108 CKT 22				
		Elec	50071			
		GS				
IL-350B-1		Square D	N/A	N/A	N/A	
	On Indication Light Waste Transfer Pump SY101-WT-	9001 KT35R6	N/A	N/A	N/A	
		SY272-WT-EDS-DP-108 CKT 22				
		Elec	50071			
		GS				

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings
			Model Number	Data Sheet No	H-14 #
		Field Tag Line 1	Power supply bkr		H-14 rev
		Field Tag Line 2	Mech/Elec/Inst		H-14 sch
	Old ID		Safety Classification	CVI#	Project Drawings
Comments					
IL-350B-2					
Off Indication Light	Waste Transfer Pump	SY101-WT-	Square D	N/A	N/A
			9001 K135G6	N/A	N/A
			SY272-WT-EDS-DP-108 CKT 22	50071	N/A
			Elec		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;
			GS		
Start	Start Button	Waste Transfer Pump	SY101-WT-P-350	Square D	H-14-103656
			9001 KR2UH2	N/A	001
			SY272-WT-EDS-DP-108 CKT 22	50071	001
			Elec		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ; H-14-103641S1 ;
			GS		
Stop	Stop Button	Waste Transfer Pump	SY101-WT-P-350	Square D	H-14-103656
			9001 KR2UH2	N/A	001
			SY272-WT-EDS-DP-108 CKT 22	50071	001
			Elec		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;
			GS		
SY461-EDS-ZA-115				N/A	N/A
Circuit Breaker Position Alarm				N/A	N/A
				SY272-WT-EDS-DP-108 CKT 22	N/A
			Elec	50071	H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;
			GS		
N/A		Panel 7 of SY461-WT-ANN-350B			

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description		Model Number	Data Sheet No	H-14 #
Field Tag Line 1		Power supply bkr		H-14 rev
Field Tag Line 2		Mech/Elec/Inst		H-14 shf
Old ID		CVI#		Project Drawings
Comments		Safety Classification		
SY461-RW-FAH-419	N/A	N/A		H-14-103656
Service Water High Flow Alarm Pilot Light	N/A	N/A		001
RAW WATER SUPPLY LINE	SY272-WT-EDS-DF-108 CKT 22			
FLOW ALARM HIGH	Elec			H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;
N/A	GS			
Panel 3 of SY461-WT-ANN-350B				
SY461-RW-FAL-419	N/A	N/A		H-14-103656
Service Water Low Flow Alarm Pilot Light	N/A	N/A		001
RAW WATER SUPPLY LINE	SY272-WT-EDS-DF-108 CKT 22			
FLOW ALARM LOW	Elec			H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;
N/A	GS			
Panel 2 of SY461-WT-ANN-350B				
SY461-RW-FIY-419	Newport Electronics	6-MISC-101		H-14-103656
Service Water Flow Indicator	INFP-0210-C2	WT-6237		001
RAW WATER SUPPLY LINE	SY272-WT-EDS-DF-108 CKT 22			
FLOW INDICATING RELAY	Inst	50071		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ; H-14-103641S2 ; H-14-
N/A	GS			103651S1 ;
SY461-WT-ANN-350B	Ronan	N/A		H-14-103656
Announcer for SY101-WT-CP-350B	4.XX11SNLR-4000	N/A		001
	SY272-WT-EDS-DF-108 CKT 22			
	Elec	50071		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ; H-14-103641S1 ; H-14-
N/A	SC			103655S5 ;
Includes Power Supply, Sonalert, Flasher and Pushbutton. Announces LDA-365B, LDA-366B, PAH-370B, PAH-371B, TAL-373B, FAH-419, FAL-419, AND ZA-115. Tested with each Safety Class Loop.				

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No	H-14 #	
Field Tag Line 1	Power supply bkr	CVT#	H-14 rev	
Field Tag Line 2	Mech/Elec/Inst		H-14 sht	
Old ID	Safety Classification		Project Drawings	
Comments				
SY461-WT-CP-3630B	Hilrine Engineering	N/A	H-14-103656	
TK-101 Waste Transfer Pump Control Panel	HNF-4235, H-14-103641		001	
TK-101 WASTE TRANSFER PUMP	SY272-WT-EDS-DP-108 CKT 22		001	
CONTROL PANEL	Inst	50071	H-14-103641S1 ;	
N/A	GS			
SY461-WT-FI-367B	Newport Electronics	N/A	H-14-103656	
Process Fluid Flow Indicator	INFP-0210-C2	N/A	001	
TK-101 TO 102 TRANSFER LINE	SY272-WT-EDS-DP-108 CKT 22		001	
FLOW INDICATOR	Inst	50071	H-14-103653S1 ; H-14-103653S3 ; H-14-103641S3 ; H-14-103651S1 ;	
N/A	GS			
SY161-WT-FQI-367	Apollo	N/A	H-14-103656	
Waste Transfer Flow Totalizer	IM04167	N/A	001	
TK-101 TO 102 TRANSFER LINE	SY272-WT-EDS-DP-108 CKT 22		001	
FLOW INDICATOR	Inst	50071	H-14-103653S1 ; H-14-103653S3 ; H-14-103641S3 ; H-14-103651S1 ;	
N/A	GS			
SY161-WT-FQI-367	Newport Electronics	N/A	H-14-103656	
Waste Transfer Flow Totalizer	INFP-0210-C2	N/A	001	
TK-101 TO 102 TRANSFER LINE	SY272-WT-EDS-DP-108 CKT 22		001	
FLOW INDICATOR	Inst	50071	H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ; H-14-103641S1 ; H-14-103651S1 ;	
N/A	GS			
SY461-WT-II-350	Newport Electronics	6-MIS-C-101	H-14-103656	
Transfer Pump Current Indicator	INFP-0210-C2	WT-6238	001	
TK-101 WASTE TRANSFER PUMP	SY272-WT-EDS-DP-108 CKT 22		001	
CURRENT INDICATOR	Inst	50071	H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ; H-14-103641S1 ; H-14-103651S1 ;	
N/A	GS			

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No	H-14 #	H-14 rev
Field Tag Line 1	Power supply bkr	CV#	H-14 shf	Project Drawings
Old ID	Mech/Elec/Inst	Safety Classification		
SY461-WT-LDA-365B	N/A	3-LDD-042	H-14-103656	
TK-101 Transfer Pump Pit Leak Detected	N/A	WT-6061	001	
TK-101 TRANSFER PUMP PIT	SY272-WT-EDS-OP-108 CKT 22	50071	001	
LEAK DETECTED	Elec		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;	
N/A	GS			
Panel 6 of SY461-WT-ANN-350B. Tested with the LDSTA as part of a loop.				
SY461-WT-LDA-366B	N/A	3-LDD-042	H-14-103656	
SY-102 Riser Extension Leak Detector Alarm Pilot Lig	N/A	WT-6062	001	
TK-101 TO 102 TRANSFER LINE	SY272-WT-EDS-OP-108 CKT 22	50071	001	
LEAK DETECTED	Elec		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;	
N/A	GS			
Panel 5 of SY461-WT-ANN-350B. Tested with the LDSTA as part of a loop.				
SY461-WT-PAH-370B	N/A	N/A	N/A	
TK-101 to 102 Transfer Line Flush Pressure Alarm Hig	N/A			
TK-101 TO 102 TRANSFER LINE	SY272-WT-EDS-OP-108 CKT 22			
FLUSH PRESSURE ALARM HIGH	Elec	50071	001	
N/A	GS		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;	
Panel 4 of SY461-WT-ANN-350B				
SY461-WT-PAH-371B	N/A	N/A	N/A	
TK-101 to 102 Transfer Line Flush Pressure Alarm Hig	N/A			
TK-101 to 102 TRANSFER LINE	SY272-WT-EDS-OP-108 CKT 22			
FLUSH PRESSURE ALARM HIGH	Elec	50071	001	
N/A	GS		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;	
Panel 8 of SY461-WT-ANN-350B				

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number		Data Sheet No	H-14 #
Field Tag Line 1	Power supply bkr			H-14 rev
Field Tag Line 2	Mech/Elec/Inst	CV#		H-14 shft
Old ID				Project Drawings
Comments				
SY461-WT-TAL-373B	N/A	N/A		H-14-103656
Raw Water Supply Line	N/A	N/A		001
RAW WATER SUPPLY LINE	SY272-WT-EDS-DF-108 CKT 22			001
TEMPERATURE ALARM LOW	Inst	50071		H-14-103653S1 ; H-14-103653S3 ; H-14-103655S2 ;
N/A	GS			
Panel 1 of SY461-WT-ANN-350B				
SY461-WT-TI-369B				
Process Fluid Temperature Indicator	Newport Electronics	6-MISC-101		H-14-103656
TK-101 TRANSFER PUMP OUTLET LINE	INFP-0210-C2	WT-6234		001
TEMPERATURE INDICATOR	SY272-WT-EDS-DF-108 CKT 22			001
N/A	Inst	50071		H-14-103653S1 ; H-14-103653S3 ; H-14-103641S3 ; H-14-103651S1 ;
GS				
SY461-WT-TIY-373				
Service Water Temperature Indicator	Newport Electronics	6-MISC-101		H-14-103656
RAW WATER SUPPLY LINE	INFP-0210-C2	WT-6235		001
TEMPERATURE INDICATING RELAY	SY272-WT-EDS-DF-108 CKT 22			001
N/A	Inst	50071		H-14-103653S1 ; H-14-103653S3 ; H-14-103641S3 ; H-14-103651S1 ;
GS				

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<i>Location</i>	<i>EPN</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>Description</i>		<i>Model Number</i>	<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Field Tag Line 1</i>		<i>Power supply bkr</i>		<i>H-14 rev</i>
<i>Field Tag Line 2</i>		<i>Mech/Elec/inst</i>		<i>H-14 sht</i>
<i>Old ID</i>		<i>Safety Classification</i>		<i>Project Drawings</i>
<i>Comments</i>				
Anti Siphoning Slurry Distributor	Orbit Industries	N/A	N/A	
Drop Leg Riser Extension	HNF-4216	N/A	N/A	
		Mech	50071	
		SC		
		Passive mechanical device, no preventative maintenance required.		
LD-A-366	Tomar Electric	N/A	N/A	H-14-103656
Alarm Strobe Light for SY102-WT-LDSTA-366	Micro StrobeIV, 495S-1280			001
	SY274-WT-EDS-DP-112 CKT 17			001
	Elec			H-14-103641S4 ;
	SC			
	Tested with LDE-366			
SY102-WT-LDE-366	Harford	3-LDD-042	H-14-103656	
Drop Leg Leak Detector Element	H-2-34965	WT-6062	001	
TK-101 TO 102 TRANS LINE	SY274-WT-EDS-DP-112 CKT 17		001	
LEAK DETECTION ELEMENT	Inst	50071		H-14-103641S4 ; H-14-103592S1 , H-14-103592S10
N/A	SC			
	Tested with the LDSTA as part of a loop.			
SY102-WT-LDSTA-366	Harford	3-LDD-042	H-14-103656	
Leak Detector Station Alarm	H-2-34965	WT-6062	001	
TK-101 TO 102 TRANSFER LINEN	SY274-WT-EDS-DP-112 CKT 17		001	
LEAK DETECTION TEST STATION	Inst	50071		H-14-103641S4 ;
N/A	SC			
	Tested with the LDSTA as part of a loop.			

<i>Location</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>EPN</i>	<i>Model Number</i>	<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Description</i>	<i>Power supply bkr</i>	<i>CVI#</i>	<i>H-14 rev</i>
<i>Field Tag Line 1</i>			<i>H-14 sht</i>
<i>Field Tag Line 2</i>			<i>Project Drawings</i>
<i>Old ID</i>			
<i>Comments</i>			
<i>GMS-1 Building</i>			
SY274-EDS-DB-112 CKT 17 Circuit Breaker, 20A	Cutler-Hammer Q0-120 SY272-EDS-MCC-003, Compt 6FD Elec GS	N/A N/A 50071	H-14-030031 000 019 H-14-103641S2 ;
N/A Existing Panel.	SY101 Transfer Pump Control Panel (SY461-WT-CP-350A) at prefabricated pump pit, instrument rack fed from circuit 17. See ECN647721 Sht 17/26.		
<i>Motor Control Center</i>			
SY272-EDS-BKR-115 Circuit Breaker for SY272-WT-VFD-350	Cutler-Hammer FD11R24 SY272-EDS-MCC-003 CPT 2FE Elec GS	N/A N/A 50071	H-14-030031 000 003 H-14-103641S1 ;
N/A See ECN 647721 Sht. 4/26.			
SY272-EDS-DF-108 CKT 22 Circuit Breaker, 20A	Cutler-Hammer Q0-120 SY272-EDS-MCC-003 CPT 3FE Elec GS	N/A N/A 50071	H-14-030031 000 003 H-14-103653S1 ; H-14-103641S1 ;
N/A Existing Panel.	SY101 Transfer Pump Control Panel (SY461-WT-CP-350B) in the DACs is fed from circuit 22. See ECN647721 Sht 16/26.		

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number		Data Sheet No	
Field Tag Line 1	Power supply bkr		H-14 #	
Field Tag Line 2	Mech/Elec/Inst		H-14 rev	
Old ID	CVI#		H-14 shf	
Comments				Project Drawings
SY272-EDS-DS-161 VFD Backside Isolation Disconnect TK-101 WASTE TRANSFER PUMP DISCONNECT SWITCH N/A See ECN 647721 Sht. 4/26.	Robicon SY272-WT-EDS-BKR-115 Elec GS	N/A N/A 50071	N/A 001 003 H-14-103653S1 ; H-14-103641S1 ;	H-14-036031
SY272-EDS-DS-350 VFD Disconnect Switch N/A	Robicon SY272-WT-EDS-BKR-115 Elec GS	N/A N/A 50071	N/A N/A N/A H-14-103641S1 ;	N/A
SY272-WT-VFD-350 Transfer Pump Variable Frequency Drive TK-101 WASTE TRANSFER PUMP VARIABLE FREQUENCY DRIVE N/A See ECN 647721 Sht. 4/26.	Robicon ID-PWM454GT, 125 HP SY272-WT-EDS-BKR-115 Inst GS	N/A N/A 50071	N/A 001 001 H-14-103653S1 ; H-14-103641S1 ; H-14-103651S1	H-14-103656

*New: Generation Transfer Pump.*



<i>Location</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>Description</i>	<i>Model Number</i>	<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Field Tag Line 1</i>	<i>Power supply bkr</i>		<i>H-14 rev</i>
<i>Field Tag Line 2</i>	<i>Mech/Elec/Inst</i>		<i>H-14 sht</i>
<i>Old ID</i>			
<i>Comments</i>	<i>Safety Classification</i>		<i>Project Drawings</i>
POR32-RW-FQ1T-401 AC-C-401 Flow Office	HillLine N/A, Custom Made N/A Mech GS	N/A N/A 50071	H-14-103657 001 002 H-14-103674S1;
POR32-RW-FQ1T-418 Outlet Line Flow	Brooks 3525C3B1B111A CB-13 Inst GS	N/A N/A 50071	H-14-103657 001 002 H-14-103671S1 ; H-14-103671S2 ; H-14-103605S2
N/A	Information displayed is for information only.		
POR32-RW-LALL416B Red Alarm Light on Water Skid	Edwards 94DV2R-N5 CB-13 Elec GS	N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S2 ; H-14-103605S1 ;
N/A			
POR32-RW-LE-416 Surge Tank Level Element	Magnetrol 842-100-C00 CB-13 Inst GS	3-MISC-518 WT-6245 50071	H-14-103657 001 002 H-14-103657S1 ; H-14-103605S2
TK-401 LEVEL SENSING ELEMENT N/A			

<i>Location</i>	<i>EPN</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>Description</i>			<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Field Tag Line 1</i>				<i>H-14 rev</i>
<i>Field Tag Line 2</i>				<i>H-14 shf</i>
<i>Old ID</i>				<i>Project Drawings</i>
<i>Comments</i>				
POR32-RW-LXA-416B Amber Alarm Light on Water Skid	Edwards 94DV2A-N5 CB:13 Elec GS	N/A N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S2 ; H-14-103605S1 ;	
POR32-RW-M-401 Flush/Dilution Pump Motor	Lincoln Electric 20 Hp, 1200rpm, 286T CB:2 Elec GS	5-EDS-050 WT-6385 50071	H-14-103657 001 002 H-14-103670S1 ; H-14-103671S1 ;	
POR32-RW-M-402 Backup Flush/Dilution Pump Motor	Lincoln Electric 20 Hp, 1200rpm, 286T CB:3 Elec GS	5-EDS-050 WT-6383 50071	H-14-103657 001 002 H-14-103670S1 ; H-14-103671S1 ;	
POR32-RW-P-401 Flush/Dilution Pump	Edwards Manufacturing Inc. 160-338 CB:2 Mech GS	N/A WT-6386 50071	H-14-103657 001 002 H-14-103657S1 ; H-14-103605S2	

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number		Data Sheet No	H-14 #
Field Tag Line 1	Power supply bkr			H-14 rev
Field Tag Line 2	Mech/Elec/Inst			H-14 sht
Old ID	Safety Classification			Project Drawings
Comments				
POR32-RW-P-402 Backup Flush/Dilution Pump	Edwards Manufacturing Inc. 160-338	N/A	WT-6384	H-14-103657 001
BACKUP FLUSH / DILUTION PUMP	Ge-3			002
	Mech			H-14-103657S1 ; H-14-103605S2
	GS			
POR32-RW-PCV-401 Raw Water Outlet Line Pressure Control Valve	Shamrock 21850	N/A	WT-6382	H-14-103657 001
RAW WATER OUTLET LINE PRESSURE	N/A			002
CONTROL VALVE	Mech			H-14-103657S1 ; H-14-103605S2
	GS			
POR32-RW-PIT-417 Outlet Hose Pressure Transducer	Yokogawa EJA-430A-EAS4B-92EA/FF1/D1	6-PCD-373	WT-5376	H-14-103657 001
OUTLET LINE PRESSURE	CB-13			002
SENSING ELEMENT	Inst			H-14-103657S1 ; H-14-103671S1 ; H-14-103605S2
	GS			
POR32-RW-PRV-401 P-401 Outlet Line Pressure Relief Valve	Kunkle 912BEDM01	N/A	N/A	H-14-103657 001
P-401 OUTLET LINE PRESSURE	N/A			002
RELIEF VALVE	Mech			H-14-103657S1 ; H-14-103605S2
	GS			

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description		Model Number	Data Sheet No	H-14 #
Field Tag Line 1		Power supply bkr		H-14 rev
Field Tag Line 2		Mech/Elec/Inst		H-14 sht
Old ID		CVI#		Project Drawings
Comments		Safety Classification		
		Kunkle	N/A	H-14-103657
POR32-RW-PRV-402		912BEDM01	WT-5381	001
P-402 Outlet Line	Pressure Relief Valve	N/A		002
P-402 OUTLET LINE PRESSURE		Mech		H-14-103657S1 : H-14-103605S2
	RELIEF VALVE	GS		
POR32-RW-PRV-403		Kunkle	N/A	H-14-103657
ACCUmULATOR ACC-401	Pressure Relief Valve	6010DC01-KM0250	WT-5380	001
ACCUmULATOR ACC-401		N/A		002
PRESSURE RELIEF VALVE		Mech		H-14-103657S1 : H-14-103605S3
N/A		GS		
POR32-RW-REG-402		Victor	N/A	H-14-103657
AIR SUPPLY TANK TK-402	Pressure Regulator	0781-9134	N/A	001
AIR SUPPLY TANK TK-402		N/A		002
PRESSURE REGULATOR		Mech		H-14-103657S1 : H-14-103605S2
N/A		GS		
POR32-RW-SG-401		Justin	N/A	H-14-103657
Holding Tank TK-401	Level Sight Glass	Supplied by Hanford	N/A	001
HOLDING TANK TK-401	LEVEL	N/A		002
SIGHT GLASS		Mech		H-14-103657S1 :
N/A		GS		

Location	EPN	Description	Manufacturer	Model Number	Procedure Number		Data Sheet No	Essential Drawings
					Field Tag Line 1	Field Tag Line 2		
Old ID	Comments	Power supply bkr	Mech/Elect Inst	CVI#	CVI#	CVI#	CVI#	Project Drawings
POR32-RW-SCU-401			Jamesbury	N/A				H-14-103657
Raw Water Supply to Skid Solenoid Operated Isolation		9150312236MT/ER5001M	N/A					001
RAW WATER SUPPLY TO SKID		CB-13						002
SOLENOID OPERATED ISOLATION VLV		Mech		50071				H-14-103657S1 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103605S2
N/A	GS	GS						
POR32-RW-STR-401		Mueller	N/A	N/A				H-14-103657
Strainer on inlet to Pump 401		20-11M-01	N/A	N/A				001
		N/A						002
		Mech		50071				H-14-103657S1 ;
N/A	GS	GS						
POR32-RW-STR-402		Mueller	N/A	N/A				H-14-103657
Strainer on inlet to Pump 402		20-11M-01	N/A	N/A				001
		N/A						002
		Mech		50071				H-14-103657S1 ;
N/A	GS	GS						
POR32-RW-TC-411		Hotfoil	6-TCD-480	WT-5342				H-14-103657
Surge Tank Heat Trace Controller		C-4058						001
TK-401 HEAT TRACE		CB-6						002
TEMPERATURE CONTROLLER		Inst		50071				H-14-103605S2
N/A	GS	GS						

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description		Model Number	Data Sheet No	H-14 #
Field Tag Line 1		Power supply bkr		H-14 rev
Field Tag Line 2		Mech/Elec/Inst		H-14 shf
Old ID		Safety Classification	CVI#	Project Drawings
Comments				
POR32-RW-TE-410	Cobra Wire and Cable	N/A		H-14-103657
Inlet Hose Temperature Element	J6spfa-alpha	N/A		
INLET LINE TEMPERATURE	N/A			001
SENSING ELEMENT	Inst			002
N/A	GS			H-14-103657S1 ; H-14-103605S2
Integral part of hose.				
POR32-RW-TE-411A	Justin	N/A		H-14-103657
Surge Tank Wall Temperature Element	UE-55	N/A		
TK-401 TEMPERATURE	N/A			001
SENSING ELEMENT	Inst			002
N/A	GS			H-14-103657S1 ; H-14-103605S2
Integral part of hose.				
POR32-RW-TE-411B	Justin	N/A		H-14-103657
Surge Tank Wall Temperature Element	UE-55	N/A		
TK-401 TEMPERATURE	N/A			001
SENSING ELEMENT	Inst			002
N/A	GS			H-14-103657S1 ; H-14-103605S2
Integral part of hose.				
POR32-RW-TE-412	Wallow	N/A		H-14-103657
Surge Tank Water Temperature Element	AFGMOTXXXXVJ300	N/A		
TK-401 TEMPERATURE	CB-13			001
SENSING ELEMENT	Inst			002
N/A	GS			H-14-103657S1 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103605S2

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings
			Model Number	Data Sheet No	H-14 #
		Field Tag Line 1	Power Supply bkr		H-14 rev
		Field Tag Line 2	Mech/Elec/Inst		H-14 sht
		Old ID	Safety Classification		Project Drawings
		Comments			
POR32-RW-TE-413		Skid Piping Temperature Element	Wallow	N/A	H-14-103657
		SKID PIPING TEMPERATURE	72XJWGB012	N/A	001
		SENSING ELEMENT	N/A		002
		N/A	Inst	50071	H-14-103657S1 ; H-14-103605S2
		GS	GS		
POR32-RW-TE-414		Accumulator Wall Temperature Element	Wallow	N/A	H-14-103657
		ACC-401 TEMPERATURE	70XJTUD012	N/A	001
		SENSING ELEMENT	N/A		002
		N/A	Inst	50071	H-14-103657S1 ; H-14-103605S2
		GS	GS		
POR32-RW-TE-415		Outlet Hose Temperature Element	Cobra Wire and Cable	N/A	H-14-103657
		OUTLET LINE TEMPERATURE	jjspia-alpha	N/A	001
		SENSING ELEMENT	N/A		002
		N/A	Inst	50071	H-14-103657S1 ;
		Integral part of hose.	GS		
POR32-RW-TK-401		Flush/Dilution Water Holding Tank	Justin	N/A	H-14-103657
		FLUSH / DILUTION WATER	Supplied by Hanford	N/A	001
		HOLDING TANK		Mech	002
		N/A		GS	H-14-103657S1 ; H-14-103605S2

Location	EPN	Manufacturer	Procedure Number	Essential Drawings	
				Model Number	Data Sheet No
Field Tag Line 1				H-14 #	
Field Tag Line 2				H-14 rev	
Old ID				H-14 shf	
Comments				CVI#	
POR32-RW-TK-402 Pressurized Air Supply Tank	Nasco T10LSE N/A Mech GS	N/A N/A 50071	N/A N/A 50071		H-14-103657
PRESSURIZED AIR SUPPLY TANK					001
					002
					H-14-103657S1 ; H-14-103655S2
POR32-RW-V-401 Raw Water Supply to Skid Isolation Valve	Velan F007C02TY N/A Mech GS	N/A N/A 50071	N/A N/A 50071		H-14-103657
RAW WATER SUPPLY TO SKID ISOLATION VALVE					001
					002
					H-14-103657S1 ;
POR32-RW-V-402 P-401 Inlet Isolation Valve	Tyco CR1703020F83000 N/A Mech GS	N/A N/A 50071	N/A N/A 50071		H-14-103657
P-402 INLET ISOLATION VALVE					001
					002
					H-14-103657S1 ;
POR32-RW-V-403 P-402 Inlet Isolation Valve	Tyco CR1703020F83000 N/A Mech GS	N/A N/A 50071	N/A N/A 50071		H-14-103657
P-402 INLET ISOLATION VALVE					001
					002
					H-14-103657S1 ;

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
	Description	Model Number	Data Sheet No	H-14 #
	Field Tag Line 1	Power supply bkr	CVI#	H-14 rev
	Field Tag Line 2	Mech/Elec/Inst		H-14 Shf
	Old ID	Safety Classification		Project Drawings
Comments				
	POR32-RW-V-404	Tyco	N/A	H-14-103657
	P-401 Outlet Isolation Valve	CR1703020F83000	N/A	001
	P-401 OUTLET ISOLATION VALVE	N/A		002
		Mach		H-14-103657S1 ; H-14-103605S2
		GS		
	POR32-RW-V-405	Tyco	N/A	H-14-103657
	P-402 Outlet Isolation Valve	CR1703020F83000	N/A	001
	P-402 OUTLET ISOLATION VALVE	N/A		002
		Mech		H-14-103657S1 ; H-14-103605S2
		GS		
	POR32-RW-V-406	Tyco	N/A	H-14-103657
	Flush Drain Isolation Valve	CR1703020F83000	N/A	001
	FLUSH DRAIN ISOLATION VALVE	N/A		002
		Mach		H-14-103657S1 ; H-14-103605S2
		GS		
	POR32-RW-V-407	Tyco	N/A	H-14-103657
	Outlet Line Isolation Valve	CR1703020F83000	N/A	001
	OUTLET LINE ISOLATION VALVE	N/A		002
		Mach		H-14-103657S1 ; H-14-103605S2
		GS		

<i>Location</i>	<i>EPN</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Data Sheet No</i>	<i>Essential Drawings</i>
<i>Description</i>		<i>Model Number</i>			<i>H-14 #</i>
<i>Field Tag Line 1</i>		<i>Power supply bkr</i>			<i>H-14 rev</i>
<i>Field Tag Line 2</i>		<i>Mech/Elec/Inst</i>			<i>H-14 sht</i>
<i>Old ID</i>					<i>Project Drawings</i>
<i>Comments</i>					
POR32-RW-Y-408	Tyco				
ACCUMULATOR ACC-401	CR1703020F83000	N/A	N/A		H-14-103657
ISOLATION VALVE	N/A	Mech	50071	001	
N/A		GS		002	
					H-14-103657S1 ; H-14-103605S3
POR32-RW-Y-409	Tyco				
ACCUMULATOR ACC-401	CR1703020F83000	N/A	N/A		H-14-103657
ISOLATION VALVE	N/A	Mech	50071	001	
N/A		GS		002	
					H-14-103657S1 ;
POR32-RW-Y-411	COM'L				
Pump Inlet Line Drain Isolation Valve	1/2" Ball Valve	N/A	N/A		H-14-103657
PUMP INLET LINE DRAIN	N/A	Mech	50071	001	
ISOLATION VALVE	N/A	GS		002	
N/A					H-14-103657S1 ;
POR32-RW-Y-412	Justin				
TK-401 Sight Glass Lower Isolation Valve	Supplied by Hanford	N/A	N/A		H-14-103657
TK-401 SIGHT GLASS LOWER	N/A	Mech	50071	001	
ISOLATION VALVE	N/A	GS		002	
					H-14-103657S1 ; H-14-103605S2



<i>Location</i>	<i>EPN</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>Description</i>			<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Field Tag Line 1</i>				<i>H-14 rev</i>
<i>Field Tag Line 2</i>				<i>H-14 sht</i>
<i>Old ID</i>				<i>Project Drawings</i>
<i>Comments</i>				
POR32-RW-V-417 Drain Valve on the overpressure return line from Pump		CCW/L 1/2" Ball Valve	N/A N/A	H-14-103657 001 002
		N/A		
		Mech		H-14-103605S2;
		GS		

<i>Portable Water Supply Skid Operator Panel</i>				
<i>Old ID</i>	<i>Component</i>	<i>Model Number</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
CB-10	Square D	QO220	N/A	N/A
Accumulator Water Trace	CB-5		N/A	N/A
	Elec			
	GS			

CB-11 Skid Trace Heat	Square D	QO220	N/A	N/A
	CB-5		N/A	N/A
	Elec			
	GS			

Location	EPN	Manufacturer	Procedure Number	Essential Drawings	
				H-14 #	
Description	Field Tag Line 1	Power supply bkr		H-14 rev	
Field Tag Line 2		Mech/Elec/Inst		H-14 sht	
Old ID				CV#	Project Drawings
Comments		Safety Classification			
CB-12	Inlet Hose Trace Heat	Square D QC230EPD CB-5 Elec GS	N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ;	
CB-13	Controls	Square D QC120GFI CB-5 Elec GS	N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ;	
CB-14	Circuit Breaker for Convenience Receptacle (A)	Square D QC120GFI CB-5 Elec GS	N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ;	
CB-16	Circuit Breaker for Convenience Receptacle (B)	Square D QC120GFI CB-5 Elec GS	N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ;	

Location	EPN	Description	Manufacturer	Model Number	Procedure Number	Essential Drawings	
						N/A	N/A
CB-2	Pump 401	Circuit Breaker	Square D	FAL-36050	N/A	N/A	N/A
				POR32-RW-DS-401	N/A	N/A	N/A
				Elec	50071	H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;	
				GS			
CB-3	Pump 402	Circuit Breaker	Square D	FAL-36050	N/A	N/A	N/A
				POR32-RW-DS-401	N/A	N/A	N/A
				Elec	50071	H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;	
				GS			
CB-5	Panel	Circuit Breaker	Square D	QO13040M200	N/A	N/A	N/A
				POR32-RW-DS-401	N/A	N/A	N/A
				Elec	50071	H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;	
				GS			
CB-6	2000 Gallon	Tank Heat Trace Circuit Breaker	Square D	QO215	N/A	N/A	N/A
				CB-5	N/A	N/A	N/A
				Elec	50071	H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;	
				GS			
				N/A			

Location	EPN	Description	Manufacturer	Model Number	Procedure Number	Essential Drawings	
						H-14 #	H-14 #
Old ID	Comments	CV#	CV#	CV#	CV#	CV#	Project Drawings
CB-7	240V Transfer Line Heat Trace (A) Receptical	Square D QC230EPD CB-5 Elec GS	N/A	N/A	N/A	N/A	
CB-8	240V Transfer Line Heat Trace (B) Receptical	Square D QC230EPD CB-5 Elec GS	N/A	N/A	N/A	N/A	
CB-9	Exit Hose Reel (Trace Heat)	Square D QC230EPD CB-5 Elec GS	N/A	N/A	N/A	N/A	
CR-1	SOV-401 Control Relay	Turck C3-A30X/120V CB-13 Elec GS	N/A	N/A	N/A	N/A	

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings		
					Model Number	Data Sheet No	H-14 #
		Field Tag Line 1	Power supply bkr				H-14 rev
		Field Tag Line 2	Mech/ElectInst				H-14 sht
		Old ID	Safety Classification				Project Drawings
		Comments					
CR-10	TIC-410 Control Relay	Watlow SSR-240-40A-DC1 CB-13 Elec GS	N/A N/A N/A 50071 N/A	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	
CR-13	TIC-413 Control Relay	Watlow SSR-240-40A-DC1 CB-13 Elec GS	N/A N/A N/A 50071 N/A	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	
CR-14	TIC-414 Control Relay	Watlow SSR-240-40A-DC1 CB-13 Elec GS	N/A N/A N/A 50071 N/A	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	
CR-15	TIC-415 Control Relay	Watlow SSR-240-40A-DC1 CB-13 Elec GS	N/A N/A N/A 50071 N/A	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description		Model Number	Data Sheet No	H-14 #
Field Tag Line 1		Power supply bkr		H-14 rev
Field Tag Line 2		Mech/Elec/Inst		H-14 sht
Old ID		Safety Classification		Project Drawings
Comments		CVI#		
CR-2 P-401 Control Relay	Turck C3-A30X/120V CB-13 Elec GS	N/A N/A 50071	N/A N/A	N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ;
CR-3 P-402 Control Relay	Turck C3-A30X/120V CB-13 Elec GS	N/A N/A 50071	N/A N/A	N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ;
CR-4 TC-411 Control Relay	Square D LC1D321QG6 CB-13 Elec GS	N/A N/A 50071	N/A N/A	N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ;
CR-5 Spare Circuit Breaker	Turck C3-A30X/120V CB-13 Elec GS	N/A N/A 50071	N/A N/A	N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ; H-14-103671S2 ;



Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings
			Model Number	Data Sheet No	H-14 #
		Field Tag Line 1	Power Supply bkr		H-14 rev
		Field Tag Line 2	Mech/Elec/Inst		H-14 sht
		Old ID	Safety Classification		Project Drawings
		Comments			
		POR32-RW-DS-401	Square D	N/A	N/A
		Raw Water Support Skid Main Power Disconnect	KAL-36150	N/A	N/A
		RAW WATER SUPPORT SKID	SY272-EDS-BKR-114		N/A
		MAIN POWER DISCONNECT	Elec	50071	H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;
			GS		
		See ECN 64-7721 Sht. 4/26.			
		POR32-RW-FI-418	Red Lion	N/A	H-14-103657
		Outlet Line Flow Indicator	CUB4LP00	N/A	001
		OUTLET LINE FLOW INDICATOR	CB-13		002
			Inst	50071	H-14-103671S2;
			GS		
		N/A			
		Indication is for information only.			
		POR32-RW-FQI-418	Red Lion	N/A	H-14-103657
		Outlet Line Flow	PAXP0000	N/A	001
		OUTLET LINE FLOW	CB-13		002
		TOTALIZER INDICATOR	Inst	50071	H-14-103672S1 ; H-14-103672S3 ;
			GS		
		N/A			
		Indication is for information only.			
		POR32-RW-HM-401	Yokogawa	N/A	H-14-103657
		Hour Meter 1, Panel 401	240-211-AAAB	N/A	001
			CB-13		002
			Inst	50071	H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;
			GS		

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings	
					Model Number	Data Sheet No
		Field Tag Line 1	Power supply bkr	H-14 #	H-14 rev	
		Field Tag Line 2	Mech/ElectInst	H-14 sht		
		Old ID	CVI#			
		Comments	Safety Classification		Project Drawings	
	POR32-RW-HM4-402	Yokogawa	N/A	H-14-103657		
	Hour Meter 1, Panel 401	240-211-AAAAB	N/A	001		
		CB-13		002		
		Inst				
		GS				
	POR32-RW-HS-401	Square D	N/A	H-14-103657		
	Flush Dilution Pump Selector Switch	9001SKS438	N/A	001		
	FLUSH / DILUTION PUMP CONTROL	CB-13		002		
	P-401 / OFF / F-402	Elec				
		GS				
		Should be POR32-RW-SS-401, three position switch.				
	POR32-RW-HS-410	Square D	N/A	H-14-103657		
	Inlet Line Heat Trace On/Off Hand Switch	9001SKS11B	N/A	001		
	INLET LINE HEAT TRACE	CB-13		002		
	ON / OFF	Elec				
		GS				
	POR32-RW-HS-411	Square D	N/A	H-14-103657		
	TK-401 Heat Trace On/Off Hand Switch	9001SKS11B	N/A	001		
	TK-401 HEAT TRACE	CB-13		002		
	ON / OFF	Elec				
		GS				

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No	H-14 #	
Field Tag Line 1	Power supply bkr		H-14 rev	
Field Tag Line 2	Mech/Elect/inst		H-14 sht	
Old ID	CV#		CV#	
Comments	Safety Classification	Project Drawings		
POR32-RW-HS-413 Skid Piping Heat Trace On/Off Hand Switch	Square D 9001SKS11B CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;	
POR32-RW-HS-414 AC-401 Heat Trace On/Off Hand Switch AC-401 HEAT TRACE ON / OFF N/A	Square D 9001SKS11B CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;	
POR32-RW-HS-415 Outlet Line Heat Trace On/Off Hand Switch OUTLET LINE HEAT TRACE ON / OFF N/A	Square D 9001SKS11B CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;	
POR32-RW-LAH-416 TK-401 Level Alarm High TK-401 LEVEL ALARM HIGH N/A Tested as part of test of LE-416.	Square D 9001SK2LG38 CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;	

Location	EPN	Manufacturer	Procedure Number	Data Sheet No	Essential Drawings
Description	Model Number	H-14 #			
Field Tag Line 1	Power supply bkr	H-14 rev			
Field Tag Line 2	Mech/Elec/Inst	H-14 sht			
Old ID	Safety Classification	CV#			Project Drawings
Comments					
POF32-RW-LAHH-416 TK-401 Level Alarm High High TK-401 LEVEL ALARM HIGH HIGH	Square D 9001SK2LG38 CB-13 Elec GS	N/A N/A 50071	N/A N/A	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;	
Tested as part of test of LE-416.					
POF32-RW-LAL-416 TK-401 Level Alarm Low TK-401 LEVEL ALARM LOW	Square D 9001SK2LG38 CB-13 Elec GS	N/A N/A 50071	N/A N/A	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;	
N/A Tested as part of test of LE-416.					
POF32-RW-LALL-416 TK-401 Level Alarm Low Low TK-401 LEVEL ALARM LOW LOW	Square D 9001SK2LG38 CB-13 Elec GS	N/A N/A 50071	N/A N/A	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;	
N/A Tested as part of test of LE-416.					
POF32-RW-LALL-416A Red Alarm Light on CP-401	Edwards 94DV2R-N5 CB-13 Elec GS	N/A N/A 50071	N/A N/A	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103605S1 ;	
N/A					

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No		H-14 #
Field Tag Line 1	Power supply bkr			H-14 rev
Field Tag Line 2	Mech/ElecInst	CV#		H-14 shf
Old ID	Safety Classification			Project Drawings
Comments				
POR32-RW-LXA-416A	Edwards	N/A	H-14-103657	
Amber Alarm Light on CP-401	94DV2A-N6	N/A	001	
	CB-13		002	
	Elec			H-14-103672S1 ; H-14-103672S2 ; H-14-103605S1 ;
	GS			
POR32-RW-MC-401	Siemens	N/A	H-14-103657	
Flush/Dilution Pump Motor Controller	6SE3222-4DG40	N/A	001	
FLUSH / DILUTION PUMP MOTOR	CB-2, CB-13		002	
	Elec			H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;
	GS			
POR32-RW-MC-402	Siemens	N/A	H-14-103657	
Backup Flush/Dilution Pump Motor Controller	6SE3222-4DG40	N/A	001	
BACKUP FLUSH / DILUTION	CB-3, CB-13		002	
PUMP MOTOR	Elec			H-14-103672S1 ; H-14-103672S3 ; H-14-103670S1 ; H-14-103671S1 ;
	GS			
POR32-RW-PI-417	Red Lion	6-GENI-135	H-14-103657	
Outlet Line Pressure Indicator	CUB4LP00	WT-3375	001	
OUTLET LINE PRESSURE INDICATOR	CB-13		002	
	Inst			H-14-103671S1
	GS			

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings
			Model Number	Data Sheet No	H-14 #
		Field Tag Line 1	Power supply bkr		H-14 rev
		Field Tag Line 2	Mech/Elec/Inst		H-14 sch
		Old ID	Safety Classification		Project Drawings
		Comments			
	POR32-RW-TIC-401	Panel Temperature Controller	Hoffman A-TEMNO CB-13 Inst GS	N/A N/A 50071	H-14-103657 001 002
	POR32-RW-TI-412	Surge Tank Water Temperature Indicator	Watlow V4TH-CDAA-AARG CB-13 Inst GS	6-TCD-095 WT-6338 50071	H-14-103657 001 002
		TK-401 TEMPERATURE INDICATOR			H-14-103672S1 ; H-14-103671S1 ; H-14-103671S2 ;
	POR32-RW-TIC-410	Inlet Hose Water Temperature Indicator	Watlow V4TH-CDAA-AARG CB-13 Inst GS	6-TCD-095 WT-6337 50071	H-14-103657 001 002
		INLET LINE TEMPERATURE INDICATOR			H-14-103672S1 ; H-14-103671S2 ; H-14-103671S3 ;
	POR32-RW-TIC-413	Skid Piping Heat Trace Indicating Controller	Watlow V4TH-CDAA-AARG CB-13 Inst GS	6-TCD-095 WT-6339 50071	H-14-103657 001 002
		SKID PIPING HEAT TRACE			H-14-103672S1 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;
		TEMPERATURE CONTROLLER			
		N/A			

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description		Model Number	Data Sheet No	H-14 #
Field Tag Line 1		Power supply bkr		H-14 rev
Field Tag Line 2		Mech/Elec/Inst		H-14 sht
Old ID		Safety Classification		Project Drawings
Comments				
PQR32-RW-TIC-414 Outlet Hose Water Temperature Indicator ACC-401 TEMPERATURE INDICATOR N/A	Watlow V4TH-CDAAA-AAFG CB-13 Inst GS	6-TCD-095 WT-6340 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	
PQR32-RW-TIC-415 Outlet Line Temperature Indicator OUTLET LINE TEMPERATURE INDICATOR N/A	Watlow V4TH-CDAAA-AAFG CB-13 Inst GS	6-TCD-095 WT-6341 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ; H-14-103671S3 ;	
PQR32-RW-UPS-401 UPS for CP-401 N/A	PC Connection 56168 CB-13 Elec GS	N/A N/A 50071 N/A	N/A N/A N/A H-14-103672S1 ; H-14-103671S1 ; H-14-103671S2 ;	
PQR32-RW-XFMR-401 480V-240V/120V 50KVA Power Transformer for Water N/A	Square D 50S3H PQR32-RW-DS-401 Elec GS	N/A N/A 50071 N/A	N/A N/A N/A H-14-103605S1 ; H-14-103605S2 ; H-14-103670S1 ; H-14-103671S1 ;	

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
	Description	Model Number	Data Sheet No	H-14 #
	Field Tag Line 1	Power supply bkr		H-14 rev
	Field Tag Line 2	Mech/Elec/Inst		H-14 sht
Old ID				Project Drawings
Comments				
	P0R32-RW-YAH-416 Alarm Horn on CP-401	Edwards 876-N5 CB-13 Elec GS	N/A N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;
		Phoenix 2939043 CB-13 Elec GS	N/A N/A 50071	N/A N/A N/A H-14-103672S1 ; H-14-103672S3 ; H-14-103671S1 ;
		Square D 9001SK2LG38G CB-13 Elec GS	N/A N/A 50071	N/A N/A H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;
	Fl-1 Run Indication for the Inlet Hose Heat Trace	Square D 9001SK2LG38G CB-13 Elec GS	N/A N/A 50071	N/A N/A H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;
	Fl-2 Run Indication for the Surge Tank Heat Trace	Square D 9001SK2LG38G CB-13 Elec GS	N/A N/A 50071	N/A N/A H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings
		Field Tag Line 1	Model Number	Data Sheet No	H-14 #
		Field Tag Line 2	Power supply bkr		H-14 rev
		Old ID	Mech/Elec/Inst	CV#	H-14 sht
		Comments	Safety Classification		Project Drawings
R1-3		Run Indication for the Skid Heat Trace	Square D 9001SK2LG38G CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103671S1 ; H-14-103671S2 ;
R1-4		Run Indication for the Accumulator Heat Trace	Square D 9001SK2LG38G CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;
R1-5		Run Indication for Pump POR32-RW-P-401	Square D 9001SK2LG38G CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ;
R1-6		Run Indication for Pump POR32-RW-P-402	Square D 9001SK2LG38G CB-13 Elec GS	N/A N/A 50071	H-14-103657 001 002 H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ;

<i>Location</i>	<i>EPN</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>Description</i>		<i>Model Number</i>	<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Field Tag Line 1</i>		<i>Power supply bkr</i>		<i>H-14 rev</i>
<i>Field Tag Line 2</i>		<i>Mech/Elec/Inst</i>		<i>H-14 sht</i>
<i>Old ID</i>		<i>Safety Classification</i>		<i>CVI#</i>
<i>Comments</i>				<i>Project Drawings</i>
RI-7		Square D	N/A	<i>H-14-103657</i>
		9001SK2LG38G	N/A	001
		CB-13		002
		Elec		
		GS		
				<i>H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ; H-14-103671S2 ;</i>
		Square D	N/A	<i>N/A</i>
		9001SKR9	N/A	<i>N/A</i>
		CB-13		<i>N/A</i>
		Elec		
		GS		
				<i>H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ;</i>
		Square D	N/A	<i>N/A</i>
		9001SKR9	N/A	<i>N/A</i>
		CB-13		<i>N/A</i>
		Elec		
		GS		
				<i>H-14-103672S1 ; H-14-103672S2 ; H-14-103671S1 ;</i>
		Stop	N/A	<i>N/A</i>
		Stop Button for CP-401	N/A	<i>N/A</i>
		N/A	50071	
		Stop	N/A	<i>N/A</i>
		Stop Button for CP-401	N/A	<i>N/A</i>
		N/A		

*Portable Water Supply Skid Valve & Instrumentation Stand*

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No	H-14 #	
Field Tag Line 1	Power supply bkr		H-14 rev	
Field Tag Line 2	Mech/Elec/Inst	CVI#	H-14 shf	
Old ID	Safety Classification		Project Drawings	
Comments				
POR32-RW-FE-419 Valve Stand Flow Element	Brooks 7402D5A1N1AAAA SY274-WT-EDS-DP-112 CKT 17 Inst SC	N/A N/A 50071	H-14-103657 001 002 H-14-103611S1; H-14-103612S1;	
N/A Non calibratable device.				
POR32-RW-FQIT-419 Service Water Totalized Flow Indicator	Brooks 3525C3B1B11A SY274-WT-EDS-DP-112 CKT 17 Inst SC	6-FCD-473 WT-6241 50071	H-14-103657 001 002 H-14-103641S2 ; H-14-103611S1 , H-14-103651S1	
N/A				
POR32-RW-PE-420 Service Water Pressure Transducer	Sensotec FPG1CN,2U5B6A,1Y SY274-WT-EDS-DP-112 CKT 17 Inst GS	N/A N/A 50071	H-14-103657 001 002 H-14-103641S2 ; H-14-103611S1 , H-14-103651S1	
N/A				
POR32-RW-V-410 Valve Stand Raw Water Line Isolation Valve	Fisher Controls FSCP-AE3LG/300S/T1G/SRG2-FS1008-1 N/A Mech GS	N/A N/A 50071	H-14-103657 001 002 H-14-103657S1 ; H-14-103612S1	
VALVE STAND RAW WATER LINE ISOLATION VALVE				
N/A				

Location	EPN	Description	Manufacturer	Model Number	Procedure Number	Essential Drawings	
						Data Sheet No	CVI#
Field Tag Line 1		Power supply bkr				H-14	H-14 sht
Field Tag Line 2		Mech/Elec/Inst					
Old ID		Safety Classification					
Comments							
SY-101 Transfer Pump Pit	LDA-365	Alarm Strobe Light for SY101-WT-LDSTA-365	Tomar Electric	N/A	H-14-103656		
			Micro StrobeIV	N/A	001		
			498S-1280		001		
			SY274-WT-EDS-DP-112 CKT 17	50071			
			Elec				
			SC				
		Tested with LDE-365					
SY101-WT-ENCL-350		Olympic Tool	N/A	N/A	H-14-103656		
TK-101 WASTE Transfer Pump		HNF-4160, H-14-103571	N/A	N/A	001		
TK-101 WASTE TRANSFER			Mech	50071	001		
PUMP ENCLOSURE			SC				
N/A							
SY101-WT-FE-367		Yokogawa	N/A	N/A	H-14-103656		
Process Fluid Magnetic Flow Tube		AE205DN-CB2-ESA/FF 1/FN1			001		
TK-101 TO 102 TRANS LINE		SY274-WT-EDS-DP-112 CKT 17			001		
FLOW SENSING ELEMENT		Inst					
N/A		SC					
		Non calibratable device.					

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No		H-14 #
Field Tag Line 1	Power supply bkr			H-14 rev
Field Tag Line 2	Mech/Elec/Inst			H-14 shf
Old ID	CVI#			Project Drawings
Comments	Safety Classification			
SY101-WT-LDE-365 Transfer Pump Pit Leak Detector Element TK-101 TRANS PUMP PIT LEAK DETECTION ELEMENT N/A Tested with the LDSTA as part of a loop.	Harford H-2-34965 SY274-WT-EDS-DP-112 CKT 17 Inst SC	3-LDD-042 WT-6061 50071	H-14-103656 001 001	H-14-103643S1 ; H-14-103643S2 ; H-14-103641S3 ;
SY101-WT-LDSTA-365 Transfer Pump Pit Leak Detector Station TK-101 TRANSFER PUMP PIT LEAK DETECTION TEST STATION N/A Tested with the LDSTA as part of a loop.	Harford H-2-34965 SY274-WT-EDS-DP-112 CKT 17 Inst SC	3-LDD-042 WT-6061 50071	H-14-103656 001 001	H-14-103643S1 ; H-14-103643S2 ; H-14-103641S3 ;
SY101-WT-PE-368 Process Fluid Pressure Transducer TK-101 TO 102 TRANS LINE PRESSURE SENSING ELEMENT N/A Tested with the LDSTA as part of a loop.	Sensotec FPG1CN,2U5B6A,1Y SY274-WT-EDS-DP-112 CKT 17 Inst GS	N/A N/A 50071	H-14-103656 001 001	H-14-103643S1 ; H-14-103643S2 ; H-14-103641S3 ; H-14-103651S1
SY101-WT-PS-370 Flush Water Pressure Switch TK-101 TO 102 TRANSFER LINE FLUSH PRESSURE SWITCH N/A	SOR 6AP-JF2-U8-C1A-X SY274-WT-EDS-DP-112 CKT 17 Inst SC	6-PCD-508 WT-6368 50071	H-14-103656 001 001	H-14-103643S1 ; H-14-103643S2 ; H-14-103641S3 ;

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description		Model Number	Data Sheet No	H-14 #
Field Tag Line 1		Power supply bkr		H-14 rev
Field Tag Line 2		Mech/Elec/Inst		H-14 sht
Old ID		Safety Classification		Project Drawings
Comments				
SY101-WT-PS-3/1 Flush Water Pressure Switch	SOR 6AP-JF2-UB-C1A-X SY274-WT-EDS-DP-112 CKT 17 Inst SC	Pyromation RBF185RG3-3-9300-3 SY274-WT-EDS-DP-112 CKT 17 Inst GS	6-PCD-508 WT-63B9 50071	H-14-103656 001 001 H-14-103643S1 ; H-14-103643S2 ; H-14-103641S3 ; N/A
SY101-WT-TE-369 Process Fluid Resistance Temperature Detector				
P-350 OUTLET LINE TEMPERATURE SENSING ELEMENT	N/A			
SY101-WT-TE-373 Service Water Resistance Temperature Detector				
RAW WATER SUPPLY LINE TEMPERATURE SENSING ELEMENT	N/A			
SY101-WT-V-351 Transfer Pump Isolation Valve, 2" TRANSFER PUMP OUTLET ISOLATION VALVE	ITT Engineered Valves 2-3121-SC-H40-1-1-ST6-SL4 N/A Mech GS			H-14-103656 001 001 H-14-103643S1 ; H-14-103643S2 ; H-14-103641S3 ; H-14-103651S1 N/A N/A 50071 N/A N/A N/A

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No	H-14 #	H-14 rev
Field Tag Line 1	Power Supply bkr	CVI#	H-14 stat	Project Drawings
Field Tag Line 2	Mech/Elec/Inst			
Old ID	Safety Classification			
Comments				
SY101-WT-V-352 Transfer Line Isolation Valve, 2" TRANSFER LINE ISOLATION VALVE	ITT Engineered Valves 2-3121-SCH40-1-T1-ST6-SL4 N/A Mech GS	N/A N/A 50071	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4
SY101-WT-V-353 Transfer Flush Isolation Valve, 2" TRANSFER LINE FLUSH ISOLATION VALVE	ITT Engineered Valves 2-3121-SCH40-1-T1-ST6-SL4 N/A Mech GS	N/A N/A 50071	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4
SY101-WT-V-354 Downstream Vacuum Break Valve, 1" DOWNSTREAM VACUUM BREAK VALVE	ITT Engineered Valves 1-3121-SCH40-1-T1-ST6-SL4 N/A Mech GS	N/A N/A 50071	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4
SY101-WT-V-355 Upstream Vacuum Break Valve, 1" UPSTREAM VACUUM BREAK VALVE	ITT Engineered Valves 1-3121-SCH40-1-T1-ST6-SL4 N/A Mech GS	N/A N/A 50071	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4	H-14-103656 001 001 H-14-103618S1 , H-14-103618S2 , H-14-103618S4

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No	H-14 #	H-14 rev
Field Tag Line 1	Power supply bkr	CV#	H-14 sht	H-14 sht
Field Tag Line 2	Mech/Elec/Inst			Project Drawings
Old ID				
Comments	Safety Classification			
SY101-WT-V-357 ServiceLine Flow Isolation Valve, 2" RAW WATER ISOLATION VALVE N/A	ITT Engineered Valves 2-3121-SCH40-1-T1-ST6-SL4 N/A Mech GS	N/A N/A 50071	H-14-103656 001 H-14-103619S1 , H-14-103619S3	
SY101-WT-V-358 Service Water Upstream Check Valve, 2" RAW WATER UPSTREAM CHECK VALVE N/A	OIC S303 N/A Mech GS	N/A N/A 50071	H-14-103656 001 001 H-14-103619S1 , H-14-103619S3	
SY101-WT-V-359 Service Water Downstream Check Valve, 2" RAW WATER DOWNSTREAM CHECK VALVE N/A	OIC S303 N/A Mech GS	N/A N/A 50071	H-14-103656 001 001 H-14-103619S1 , H-14-103619S3	
SY101-WT-V-360 Flush Water Isolation Valve, 2" RAW WATER FLUSH ISOLATION VALVE N/A	ITT Engineered Valves 2-3121-SCH40-1-T1-ST6-SL4 N/A Mech GS	N/A N/A 50071	H-14-103656 001 001 H-14-103619S1 , H-14-103619S3	

<u>Location</u>	<u>EPN</u>	<u>Manufacturer</u>	<u>Procedure Number</u>	<u>Essential Drawings</u>
		<u>Model Number</u>	<u>Data Sheet No</u>	<u>H-14 #</u>
		<u>Power supply bkr</u>		<u>H-14 rev</u>
		<u>Mech/Elec/Inst</u>		<u>H-14 shf</u>
		<u>Old ID</u>		<u>CVI#</u>
		<u>Comments</u>		<u>Project Drawings</u>
	SY101-WT-V-361	ITT Engineered Valves 2-3121-SCH40-1-T1-ST6-SL4	N/A	H-14-103656
	Pump Flush Isolation Valve, 2"	N/A	N/A	001
	PUMP FLUSH ISOLATION VALVE	Mech	50071	001
		GS		H-14-103619S1 , H-14-103619S3
	SY101-WT-V-362	ITT Engineered Valves 2-3121-SCH40-1-T1-ST6-SL4	N/A	H-14-103656
	Dilute Water Isolation Valve, 2"	N/A	N/A	001
	PUMP DILUTION WATER	Mech	50071	001
	ISOLATION VALVE	GS		H-14-103619S1 , H-14-103619S3
	<i>SY-101 Transfer Pump Pit Operator Panel</i>			
	Acknowledge	Square D	N/A	N/A
	Annunciator Acknowledge Pushbutton on Panel 350A	9001-SKR1U	N/A	N/A
		SV274-WT-EDS-DP-112 CKT 17		N/A
		Elec	50071	H-14-103654S1 ; H-14-103653S2 ; H-14-103655S1 ;
		GS		

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings	
					H-14 #	H-14 rev
Field Tag Line 1			Power supply bkr		H-14 sht	H-14 sht
Field Tag Line 2			Mech/Elec/Inst			
Old ID			CV#			
Comments			Safety Classification			
Emergency Stop		Square D		N/A	H-14-103656	
Emergency Stop Push Button	Waste Transfer Pump S	9001 KF9RH13		N/A	001	
		SY274-WT-EDS-DP-112 CKT 17				
		Elec				
		GS				
IL-350A1		Square D		N/A	N/A	
Off Indication Light	Waste Transfer Pump SY101-WT-	9001 KT35R6		N/A	N/A	
		SY274-WT-EDS-DP-112 CKT 17				
		Elec				
		GS				
IL-350A2		Square D		N/A	N/A	
On Indication Light	Waste Transfer Pump SY101-WT-	9001 KT35GS		N/A	N/A	
		SY274-WT-EDS-DP-112 CKT 17				
		Elec				
		GS				
LDK-365 (1K1)		Square D		N/A	N/A	
Control Relay for LDSTA-365 Alarm		8501 XDO40V53		N/A	N/A	
		SY274-WT-EDS-DP-112 CKT 17				
		Elec				
		SC				
N/A Tested with LDE-365.						

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number		Data Sheet No	H-14 #
Field Tag Line 1	Power supply bkr			H-14 rev
Field Tag Line 2	Mech/Elec/Inst			H-14 sht
Old ID	Safety Classification			Project Drawings
Comments				
LDK-366 (1K2)	Square D	N/A	N/A	N/A
Control Relay for LDSTA-366 Alarm	8501 XDO40V53	N/A	N/A	N/A
	SV274-WT-EDS-DP-112 CKT 17			
	Elec	50071		
	SC			
Tested with LDE-366.				
PSK-370 (1K3)	Square D	N/A	N/A	N/A
Control Relay for PS-370 Alarm	8501 XDO40V53	N/A	N/A	N/A
	SV274-WT-EDS-DP-112 CKT 17			
	Elec	50071		
	SC			
Tested with PS-370.				
PSK-371 (1K4)	Square D	N/A	N/A	N/A
Control Relay for PS-371 Alarm	8501 XDO40V53	N/A	N/A	N/A
	SV274-WT-EDS-DP-112 CKT 17			
	Elec	50071		
	SC			
Tested with PS-371.				
Reset	Square D	N/A	N/A	N/A
Annunciator Reset Pushbutton on Panel 350A	9001-SKR1U	N/A	N/A	N/A
	SV274-WT-EDS-DP-112 CKT 17			
	Elec	50071		
	GS			
N/A				

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number	Data Sheet No	H-14 #	
Field Tag Line 1	Power supply bkr	CVI#	H-14 rev	
Field Tag Line 2	Mech/ElecInst		H-14 sht	
Old ID	Safety Classification		Project Drawings	
Comments				
SY101-WT-ANN-350A	Ronan	N/A	H-14-103656	
Annunciator for SY101-WT-CP-350A	4.4X11SNLR-4000-N4	N/A	001	
	SY274-WT-EDS-DP-112 CKT 17			
	Elec	50071		
	SC		H-14-103653S1 ; H-14-103653S2 ; H-14-103655S1 ; H-14-103641S5 ;	
	Includes Power Supply, Sonalert, Flasher and Pushbutton. Annunciates LDA-366A, LDA-366A, PAH-370A, PAH-371A, and TAL-373A. Tested with each Safety Class Loop.			
SY101-WT-CP-350A	HillLine	N/A	H-14-103656	
TK-101 Waste Transfer Pump Control Panel	H-14-103653	N/A	001	
TK-101 WASTE TRANSFER PUMP	SY274-WT-EDS-DP-112 CKT 17		003	
CONTROL PANEL	Elec	50071		
N/A	GS		H-14-103652S1 ; H-14-103653S1 ; H-14-103653S2 ; H-14-103641S52 ;	
SY101-WT-DS-162	Cutter-Hammer	N/A	H-14-030031	
TK-101 Waste Transfer Pump Disconnect Switch	DH364URK	N/A	001	
TK-101 WASTE TRANSFER PUMP	SY272-WT-EDS-BKR-115		003	
DISCONNECT SWITCH	Elec	50071		
N/A	GS		H-14-103652S1 ; H-14-103653S1 ; H-14-103641S1 ;	
See ECN 647721 Sht. 4/26.				
SY101-WT-FI-367A	Newport Electronics	6-GENI-135	H-14-103656	
Process Fluid Flow Indicator	556B-ET-1S1-SPC18	WT-8379	001	
TK-101 TO 102 TRANSFER LINE	SY274-WT-EDS-DP-112 CKT 17		003	
FLOW INDICATOR	Inst	50071		
N/A	GS		H-14-103653S1 ; H-14-103653S2 ; H-14-103641S3 ; H-14-103651S1 ;	

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
	Description	Model Number	Data Sheet No	H-14 #
	Field Tag Line 1	Power supply bkr		H-14 rev
	Field Tag Line 2	Mech/Elec/Inst		H-14 slt
Old ID	Comments	CV#	Project Drawings	
SY101-WT-FQ1T-367	Service Water Flow Indicator	Newport Electronics	6-GENI-135	H-14-103656
VALVE STAND RAW WATER LINE		558B-ET-IS1-SPC18	WT-6378	001
FLOW INDICATOR		SY274-WT-EDS-DP-112 CKT 17		001
N/A		Inst	50071	H-14-103653S1 ; H-14-103653S2 ; H-14-103641S2 ; H-14-103651S1 ;
SY101-WT-LDA-365A	Process Fluid Flow Indicating Transmitter	Yokogawa	6-FCD-454	H-14-103656
TK-101 TO 102 TRANSFER LINE		AE14-DA/A/BR/FF1/FN1	WT-6233	001
FLOW INDICATING TRANSMITTER		SY274-WT-EDS-DP-112 CKT 17		001
N/A		Inst	50071	H-14-103652S1 ; H-14-103641S3 ; H-14-103651S1 ;
SY101-WT-LDA-365A	Transfer Pump Pit Leak Detector Alarm Pilot Light	N/A	3-LDD-042	H-14-103656
TK-101 TRANSFER PUMP PIT		N/A	WT-6061	001
LEAK DETECTED		SY274-WT-EDS-DP-112 CKT 17		001
N/A		Elec	50071	H-14-103653S1 ; H-14-103653S2 ; H-14-103655S1 ;
Panel 4 of SY101-WT-ANN-350A. Tested with the LDSTA as part of a loop.				
SY101-WT-LDA-366A	SY-102 Riser Extension Leak Detector Alarm Pilot Lig	N/A	3-LDD-042	H-14-103656
TK-101 TO 102 TRANSFER LINE		N/A	WT-6062	001
LEAK DETECTED		SY274-WT-EDS-DP-112 CKT 17		001
N/A		Elec	50071	H-14-103653S1 ; H-14-103653S2 ; H-14-103655S1 ;
Panel 3 of SY101-WT-ANN-350A. Tested with the LDSTA as part of a loop.				

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
	Description	Model Number	Data Sheet No	H-14 #
	Field Tag Line 1	Power supply bkr	CV#	H-14 rev
	Field Tag Line 2	Mech/Elec/Inst		H-14 shf
	Old ID	Safety Classification		Project Drawings
Comments	SY101-WT-PAH-370A Flush Water High Pressure Alarm Pilot Light TK-101 TO 102 TRANSFER LINE FLUSH PRESSURE ALARM HIGH N/A Panel 2 of SY101-WT-ANN-350A	N/A N/A SY274-WT-EDS-DP-112 CKT 17 Elec GS	N/A N/A 50071	H-14-103656 001 001 H-14-103653S1 ; H-14-103653S2 ; H-14-103655S1 ; N/A N/A SY274-WT-EDS-DP-112 CKT 17 Elec GS
SY101-WT-PAH-371A Flush Water High Pressure Alarm Pilot Light N/A Panel 5 of SY101-WT-ANN-350A	N/A N/A SY274-WT-EDS-DP-112 CKT 17 Inst. GS	N/A N/A 50071	H-14-103656 001 001 H-14-103653S1 ; H-14-103653S2 ; H-14-103655S1 ; Sensotec AE213-56a SY274-WT-EDS-DP-112 CKT 17 Inst. GS	H-14-103656 001 001 H-14-103653S1 ; H-14-103653S2 ; H-14-103641S3 ; H-14-103651S1 ; 6-PCD-466 WT-6366 50071
SY101-WT-PI-368 Process Fluid Pressure Indicator TK-101 TO 102 TRANSFER LINE PRESSURE INDICATOR N/A	Sensotec AE213-56a SY274-WT-EDS-DP-112 CKT 17 Inst. GS	6-PCD-466 WT-6367 50071	H-14-103656 001 001 H-14-103653S1 ; H-14-103653S2 ; H-14-103641S2 ; H-14-103651S1 ;	
SY101-WT-PI-420 Service Water Pressure Indicator VALVE STAND RAW WATER LINE PRESSURE INDICATOR N/A	Sensotec AE213-56a SY274-WT-EDS-DP-112 CKT 17 Inst. GS	6-PCD-466 WT-6367 50071		

Location	EPN	Description	Manufacturer	Procedure Number	Essential Drawings
			Model Number	Data Sheet No	H-14 #
	Field Tag Line 1	Power supply bkr			H-14 rev
	Field Tag Line 2	Mech/Elec/Inst			H-14 sht
	Old ID	Safety Classification	CVI#		Project Drawings
Comments					
	SY101-WT-TAL-373A	N/A	N/A	N/A	H-14-103656
Service Water Temperature Indicator		N/A	N/A	001	
RAW WATER SUPPLY LINE		SY272-WT-EDS-DP-108 CKT 22		001	
TEMPERATURE ALARM LOW		Elec	50071		H-14-103655S1 ;
N/A		GS			
Panel 1 of SY101-WT-ANN-350A					
	SY101-WT-TI-369A	Newport Electronics	6-GENI-135		H-14-103656
Process Fluid Temperature Indicator		558B-ET-1S1-SPC18	WT-6377	001	
TK-101 TRANSFER PUMP OUTLET LINE		SY272-WT-EDS-DP-108 CKT 22		001	
TEMPERATURE INDICATOR		Inst	50071		H-14-103653S1 ; H-14-103641S3 ; H-14-103651S1 ;
N/A		GS			
	SY101-WT-TI-373	Newport Electronics	6-GENI-135		H-14-103656
Service Water Temperature Indicator		558B-ET-1S1-SPC18	WT-6365	001	
RAW WATER SUPPLY LINE		SY274-WT-EDS-DP-112 CKT 17		001	
TEMPERATURE INDICATOR		Inst	50071		H-14-103653S1 ; H-14-103641S3 ; H-14-103651S1 ;
N/A		GS			
	SY101-WT-TT-369	Omega	6-FCD-453		H-14-103656
Process Fluid Temperature Transmitter		CGT-20-0100C	WT-6216	001	
TK-101 TRANSFER PUMP OUTLET LINE		SY274-WT-EDS-DP-112 CKT 17		001	
TEMPERATURE TRANSMITTER		Inst	50071		H-14-103653S1 ; H-14-103641S3 ; H-14-103651S1 ;
N/A		GS			

<i>Location</i>	<i>EPN</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>Description</i>		<i>Model Number</i>	<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Field Tag Line 1</i>		<i>Power supply bkr</i>		<i>H-14 rev</i>
<i>Field Tag Line 2</i>		<i>Mech/Elec/Inst</i>		<i>H-14 sht</i>
<i>Old ID</i>		<i>CV#</i>		<i>Project Drawings</i>
<i>Comments</i>		<i>Safety Classification</i>		
SY101-WT-FT-373		Omega	6-FCD-453	H-14-103656
Service Water Temperature Transmitter		CCT-20-01100C	WT-6217	001
RAW WATER SUPPLY LINE		SY274-WT-EDS-DF-112 CKT 17		001
TEMPERATURE TRANSMITTER		Inst	50071	H-14-103653S1 ; H-14-103653S2 ; H-14-103641S3 ; H-14-103651S1 ;
N/A		GS		
Test		Square D	N/A	N/A
Annunciator Test Pushbutton on Panel 350A		9001-SKR1U	N/A	N/A
		SY274-WT-EDS-DF-112 CKT 17		N/A
		Elec	50071	H-14-103654S1 ; H-14-103653S2 ; H-14-103655S1 ;
		GS		
<i>Transfer Line</i>				
CON-HT1		Raychem	N/A	N/A
Contactor for Transfer Line Heat Trace		E-304-40-208/240	N/A	N/A
		CB-7		N/A
		Elec	50071	H-14-103649S1 ; H-14-103649S2 ; H-14-103648S1 ;
		GS		

Location	EPN	Manufacturer	Procedure Number	Essential Drawings
Description	Model Number		Data Sheet No	H-14 #
Field Tag Line 1	Power supply bkr			H-14 rev
Field Tag Line 2	Mech/Elec/Inst	CV#		H-14 sht
Old ID				Project Drawings
Comments				
CON-HT2	Raychem	N/A	N/A	
Contactor for Transfer Line Heat Trace	E-304-40-208/240	N/A	N/A	
	CB-8			
	Elec	50071		
	GS			
Hose and Hose Assembly	River Bend Hose Specialties	N/A	N/A	
SY101 to SY102 Transfer Line	HNF-4407	N/A	N/A	
	N/A			
	Mech	50071		
	SC			
IL-HT1	Square D	N/A	N/A	
On Indication Light for Transfer Line Heat Trace	9001 SKT7R31	N/A	N/A	
	CB-7			
	Elec	50071		
	GS			
IL-HT2	Square D	N/A	N/A	
On Indication Light for Transfer Line Heat Trace	9001 SKT7R31	N/A	N/A	
	CB-8			
	Elec	50071		
	GS			

<i>Location</i>	<i>EPN</i>	<i>Manufacturer</i>	<i>Procedure Number</i>	<i>Essential Drawings</i>
<i>Description</i>			<i>Data Sheet No</i>	<i>H-14 #</i>
<i>Field Tag Line 1</i>				<i>H-14 rev</i>
<i>Field Tag Line 2</i>				<i>H-14 sht</i>
<i>Old ID</i>				<i>Project Drawings</i>
<i>Comments</i>				
TS-HT1		Raychem	N/A	N/A
Thermostat for Transfer Line Heat Trace		AMC-1B	N/A	N/A
		N/A		N/A
		Inst	50071	H-14-103649S1 ; H-14-103649S2 ; H-14-103646S1 ;
		GS		
TS-HT2		Raychem	N/A	N/A
Thermostat for Transfer Line Heat Trace		AMC-1B	N/A	N/A
		N/A		N/A
		Inst	50071	H-14-103649S1 ; H-14-103649S2 ; H-14-103646S1 ;
		GS		