



ENGINEERING CLARIFICATION

EC TITLE: Instrument List and Instrument Datasheet Clarifications

PROJECT: 3 Kings Water Treatment Plant

EC NO.: 30

DATE: 7/1/2020

STATUS: Open

SECTION 1: BY CONTRACTOR

QUESTION:

RFI 64 identified discrepancies with the instrument list and some instrument datasheets.

DRAWING NO.:

SPECIFICATION SECTION: 40 91 00 Instrumentation and Control Components

POTENTIAL COST IMPACT:

POTENTIAL SCHEDULE IMPACT:

PROPOSED SOLUTION:

See attached updated instrument list and datasheets.

COMMENTS:

INITIATOR: Menk, Sean/SLC

PRIORITY: Normal

REQUESTED RESPONSE DATE: 7/15/2020

SECTION 2: BY REVIEWER

RESPONSE:

COMMENTS:

REVIEWED BY:

REVIEWED DATE:

INSTRUMENT LIST

Table with columns: TAG NO, FUNCTION, ACCESSORY TAG 1, ACCESSORY TAG 2, ACCESSORY TAG 3, LOOP TITLE, COMP_CODE, INSTRUMENT NAME, P+ID NO, DESIGNDETAIL, PANEL NO, MANUFACTUR, MODEL, SUPPLY_VOLT, UPS_LOAD. Contains instrument specifications for various flow switches, transmitters, and containment systems.

TAG NO	FUNCTION	ACCESSORY TAG 1	ACCESSORY TAG 2	ACCESSORY TAG 3	LOOP TITLE	COMP_CODE	INSTRUMENT NAME	P-ID NO	DESIGNDETAIL	PANEL NO	MANUFACTR	MODEL	SUPPLY_VOLT	UPS_LOAD
LSH-800-740-02					CHEMICAL PULL BOX CV-2 1ST ACID CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-740-03					CHEMICAL PULL BOX CV-2 2ND ACID CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-750-01					CHEMICAL PULL BOX CV-3 BASE CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-750-02					CHEMICAL PULL BOX CV-3 1ST ACID CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-750-03					CHEMICAL PULL BOX CV-3 2ND ACID CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-760-01					CHEMICAL PULL BOX CV-4 BASE & POLY CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-760-02					CHEMICAL PULL BOX CV-4 1ST ACID CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-760-03					CHEMICAL PULL BOX CV-4 2ND ACID CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-770-01					CHEMICAL PULL BOX CV-5 BASE CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-770-02					CHEMICAL PULL BOX CV-5 ACID CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LSH-800-780-01					CHEMICAL PULL BOX CV-6 CT CONTAINMENT HIGH LEVEL SW.	L08	LEVEL SWITCH, FLOAT	060-N-80013	4091-248		GEMS	LS-1700TFE		
LIT-800-501-04		PE-800-501-04			BRINE SATURATOR TANK LIQUID LEVEL	L10	LEVELTRANSMITTER, FLANGE MOUNTED	060-N-80010	4091-031		E&H or Equal	FMD77-27337/101		
LIT-800-510-04		PE-800-510-04			SHC STORAGE TANK 1 LEVEL XMITTER	L10	LEVELTRANSMITTER, FLANGE MOUNTED	060-N-80011	4091-031		E&H or Equal	FMD77-27337/101		
LIT-800-600-03		PE-800-600-03			HIGH CONC SHC STORAGE TANK 1 LEVEL XMITTER	L10	LEVELTRANSMITTER, FLANGE MOUNTED	060-N-80011	4091-031		E&H or Equal	FMD77-27337/101		
LT-320-122-02		LE-320-122-02			FILTER 1 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32002	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-320-222-02		LE-320-222-02			FILTER 2 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32003	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-320-322-03		LE-320-322-03			FILTER 3 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32004	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-320-422-04		LE-320-422-04			FILTER 4 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32005	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-320-522-05		LE-320-522-05			FILTER 5 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32006	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-320-622-06		LE-320-622-06			FILTER 6 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32007	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-320-722-07		LE-320-722-07			FILTER 7 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32008	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-320-822-08		LE-320-822-08			FILTER 8 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-32009	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-330-122-01		LE-330-122-01			ADSORBER 1 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-33002	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-330-222-02					ADSORBER 2 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-33003	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-330-322-03		LE-330-322-03			ADSORBER 3 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-33004	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-330-422-04		LE-330-422-04			ADSORBER 4 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-33005	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-330-522-05		LE-330-522-05			ADSORBER 5 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-33006	4091-380		ATI	ESS-16002	120V UPS	200VA
LT-330-622-01		LE-330-622-06			ADSORBER 6 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-33007	4091-380		ATI	ESS-16002	120V UPS	200VA
LIT-600-104-02					GRAVITY THICKENER 1 SLUDGE BLANKET	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-60001	4091-169		ATI	ESS-26001	120V UPS	200VA
LT-600-104-02	BLANKET	LE-600-104-02			GRAVITY THICKENER #1 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-60001	4091-169		ATI	ESS-26001	120V UPS	200VA
LIT-600-112-02					GRAVITY THICKENER 2 SLUDGE BLANKET	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-60001	4091-169		ATI	ESS-26001	120V UPS	200VA
LT-600-112-02	BLANKET	LE-600-112-02			GRAVITY THICKENER #2 LEVEL XMITTER	L24	LEVEL ELEMENT/TRANSMITTER, SLUDGE BLANKET	060-N-60001	4091-169		ATI	ESS-26001	120V UPS	200VA
LIT-340-119-01					TRUCK FULL INDICATION	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-34002	TBD		E&H or Equal	FMR51	120V UPS	
LIT-340-120-01					TRUCK FULL INDICATION	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-34002	TBD		E&H or Equal	FMR51	120V UPS	
LIT-800-101-04					FERRIC SULFATE STORAGE TANK 1 LEVEL XMITTER	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-80001	4091-257		E&H or Equal	FMR51	120V UPS	
LIT-800-102-04					FERRIC SULFATE STORAGE TANK 2 LEVEL XMITTER	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-80001	4091-257		E&H or Equal	FMR51	120V UPS	
LIT-800-301-05					SULFURIC ACID STORAGE TANK 1 LEVEL XMITTER	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-80004	4091-257		E&H or Equal	FMR51	120V UPS	
LIT-800-302-05					SULFURIC ACID STORAGE TANK 2 LEVEL XMITTER	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-80004	4091-257		E&H or Equal	FMR51	120V UPS	
LIT-800-401-04					SODIUM HYDROXIDE STORAGE TANK 1 LEVEL XMITTER	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-80006	4091-257		E&H or Equal	FMR51	120V UPS	
LIT-800-402-04					SODIUM HYDROXIDE STORAGE TANK 2 LEVEL XMITTER	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-80006	4091-257		E&H or Equal	FMR51	120V UPS	
LIT-800-501-03					BRINE STORAGE TANK LEVEL XMITTER	L29	LEVEL ELEMENT AND TRANSMITTER, RADAR	060-N-80010	4091-257		E&H or Equal	FMR51	120V UPS	
LET-200-101-01		LE-200-101-01			THIRIOT SPRINGS BOX LEVEL XMITTER	L42	LEVEL ELEMENT/TRANSMITTER, SUBMERSIBLE	060-N-12001	4091-266, -267		E&H or Equal	FMB53		
FS-120-114-05					ROCKPORT INLET FILTER DRAIN LINE FLOW SW.	L50	LEVEL SWITCH, TUNING FORK	060-N-12003	4091-269		E&H or Equal	FTL51		
LSHH-800-101-05					FESO4 STORAGE TANK 1 HIGH HIGH LEVEL SW.	L50	LEVEL SWITCH, TUNING FORK	060-N-80001	4091-265		E&H or Equal	FTL51		
LSHH-800-102-05					FESO4 STORAGE TANK 2 HIGH HIGH LEVEL SW.	L50	LEVEL SWITCH, TUNING FORK	060-N-80001	4091-265		E&H or Equal	FTL51		
LSHH-800-301-06					H2SO4 ACID STORAGE TANK 1 HIGH HIGH LEVEL SW.	L50	LEVEL SWITCH, TUNING FORK	060-N-80004	4091-265		E&H or Equal	FTL51		
LSHH-800-302-06					H2SO4 ACID STORAGE TANK 2 HIGH HIGH LEVEL SW.	L50	LEVEL SWITCH, TUNING FORK	060-N-80004	4091-265		E&H or Equal	FTL51		
LSHH-800-401-05					NAOH STORAGE TANK 1 HIGH HIGH LEVEL SW.	L50	LEVEL SWITCH, TUNING FORK	060-N-80006	4091-265		E&H or Equal	FTL51		
LSHH-800-402-05					NAOH STORAGE TANK 2 HIGH HIGH LEVEL SW.	L50	LEVEL SWITCH, TUNING FORK	060-N-80006	4091-265		E&H or Equal	FTL51		
HRN-800-100-01					LCP-800-04 FESO4 TRUCK UNLOADING PANEL HORN	M30	HORN, INDOOR/OUTDOOR	060-N-80001	N/A	LCP-800-04				
HRN-800-300-01					LCP-800-03 SULFURIC ACID TRUCK UNLOADING PANEL HORN	M30	HORN, INDOOR/OUTDOOR	060-N-80004	N/A					
HRN-800-400-01					LCP-800-05 SODIUM HYDROXIDE TRUCK UNLOADING PANEL HORN	M30	HORN, INDOOR/OUTDOOR	060-N-80006	N/A					
LAH-800-100-01	BEACON				LCP-800-04 FESO4 TRUCK UNLOADING PANEL HIGH BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80001	N/A	LCP-800-04				
LAHH-800-100-01	BEACON				LCP-800-04 FESO4 TRUCK UNLOADING PANEL HIGH BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80001	N/A	LCP-800-04				
LAH-800-300-01	BEACON				LCP-800-03 SULFRIC ACID TRUCK UNLOADING PANEL HIGH BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80004	N/A					
LAHH-800-300-01	BEACON				LCP-800-03 SULFRIC ACID TRUCK UNLOADING PANEL HIGH BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80004	N/A					
LAH-800-400-01	BEACON				LCP-800-05SODIUM HYDEOXIDE TRUCK UNLOADING PANEL HIGH BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80006	N/A					
LAHH-800-400-01	BEACON				LCP-800-05SODIUM HYDROXIDE TRUCK UNLOADING PANEL HIGH BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80006	N/A					
BCN-800-610-03					OSHG AREA HIGH H2 WARNING BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80011					120V UPS	
BCN-800-610-04					OSHG AREA HIGH H2 WARNING BEACON	M31	WARNING LIGHT, INDOOR/OUTDOOR	060-N-80011					120V UPS	
PI-120-104-04		PE-120-104-04			JUDGE RAW WATER MICRO HYDRO INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-12001	4091-304		Ashcroft or Equal	1259		
PI-120-108-03		PE-120-108-03	PE-120-108-03		JUDGE RAW WATER BYPASS TO JUDGE CHAMBER PRESS GAGE	P04	PRESSURE GAUGE	060-N-12002	4091-304		Ashcroft or Equal	1259		
PI-120-112-03		PE-120-112-03			SRW TO JET INJECTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-12002	4091-304		Ashcroft or Equal	1259		
PI-120-118-02		PE-120-118-02			ROCKPORT BYPASS LINE TO EAST DITCH PRESS GAGE	P04	PRESSURE GAUGE	060-N-12003	4091-304		Ashcroft or Equal	1259		
PI-130-102-03		PE-130-102-03			JUDGE MH WATER PRESS TO JET MIXER INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-13001	4091-304		Ashcroft or Equal	1259		
PI-140-201-04		PE-140-201-04			FLPS FEED PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-14002	4091-304		Ashcroft or Equal	1259		

TAG NO	FUNCTION	ACCESSORY TAG 1	ACCESSORY TAG 2	ACCESSORY TAG 3	LOOP TITLE	COMP_CODE	INSTRUMENT NAME	P+ID NO	DESIGNDETAIL	PANEL NO	MANUFACTR	MODEL	SUPPLY_VOLT	UPS LOAD
PI-140-202-04		PE-140-202-04			FLPS FEED PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-14002	4091-304		Ashcroft or Equal	1259		
PI-140-206-03		PE-140-206-03			FLPS FEED PMP5 COMB DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-14002	4091-304		Ashcroft or Equal	1259		
PI-200-103-05		PE-200-103-03			THIRIOT SPRINGS BOX PMP 1 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-12001	4091-304		Ashcroft or Equal	1259		
PI-200-103-08		PE-200-103-06			THIRIOT SPRINGS BOX PMP 1 OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-12001	4091-304		Ashcroft or Equal	1259		
PI-200-104-05		PE-200-104-03			THIRIOT SPRINGS BOX PMP 2 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-12001	4091-304		Ashcroft or Equal	1259		
PI-200-104-08		PE-200-104-06			THIRIOT SPRINGS BOX PMP 2 OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-12001	4091-304		Ashcroft or Equal	1259		
PI-200-107-02		PE-200-107-02			BWW CLAR SETTLED SOLIDS PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-12001	4091-304		Ashcroft or Equal	1259		
PI-200-307-01					SETTLED WATER PMP 4 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-20003	4091-302		Ashcroft or Equal	1259		
PI-200-401-06		PE-200-401-04			SETTLED SOLIDS PMP 1 SUCTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-20004	4091-304		Ashcroft or Equal	1259		
PI-200-401-09		PE-200-401-07			SETTLED SOLIDS PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-20004	4091-304		Ashcroft or Equal	1259		
PI-200-402-06		PE-200-402-04			SETTLED SOLIDS PMP 2 SUCTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-20004	4091-304		Ashcroft or Equal	1259		
PI-200-402-09		PE-200-402-07			SETTLED SOLIDS PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-20004	4091-304		Ashcroft or Equal	1259		
PI-200-403-06		PE-200-403-04			SETTLED SOLIDS PMP 3 SUCTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-20004	4091-304		Ashcroft or Equal	1259		
PI-200-403-09		PE-200-403-07			SETTLED SOLIDS PMP 3 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-20004	4091-304		Ashcroft or Equal	1259		
PI-200-406-02		PE-200-406-03			UNTHICKENED SOLIDS TO GRAV THICKENERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-20004	4091-304		Ashcroft or Equal	1259		
PI-310-103-03					BWW CLAR PMP5 COMB DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-31001	4091-302,303,305		Ashcroft or Equal	1259		
PI-310-120-05					BWW CLAR RECYCLE PMP 1 SUCTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-31003	4091-302,303,305		Ashcroft or Equal	1259		
PI-310-120-08					BWW CLAR RECYCLE PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-31003	4091-302,303,305		Ashcroft or Equal	1259		
PI-310-122-05					BWW CLAR RECYCLE PMP 2 SUCTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-31003	4091-302,303,305		Ashcroft or Equal	1259		
PI-310-122-08					BWW CLAR RECYCLE PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-31003	4091-302,303,305		Ashcroft or Equal	1259		
PI-310-128-05		PE-310-128-03			BWW CLAR SETTLED SOLIDS PMP 1 SUCTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-31004	4091-304		Ashcroft or Equal	1259		
PI-310-128-08		PE-310-128-06			BWW CLAR SETTLED SOLIDS PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-31004	4091-304		Ashcroft or Equal	1259		
PI-310-130-05		PE-310-130-03			BWW CLAR SETTLED SOLIDS PMP 2 SUCTION PRESS GAGE	P04	PRESSURE GAUGE	060-N-31004	4091-304		Ashcroft or Equal	1259		
PI-310-130-08		PE-310-130-06			BWW CLAR SETTLED SOLIDS PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-31004	4091-304		Ashcroft or Equal	1259		
PI-320-120-04					FILTER 1 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32002	4091-302,303,305		Ashcroft or Equal	1259		
PI-320-124-01					FILTER 1 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32002	4091-302		Ashcroft or Equal	1259		
PI-320-220-04					FILTER 2 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32003	4091-302,303,305		Ashcroft or Equal	1259		
PI-320-224-01					FILTER 2 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32003	4091-302		Ashcroft or Equal	1259		
PI-320-320-04					FILTER 3 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32004	4091-302,303,305		Ashcroft or Equal	1259		
PI-320-324-01					FILTER 3 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32004	4091-302		Ashcroft or Equal	1259		
PI-320-420-04					FILTER 4 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32005	4091-302,303,305		Ashcroft or Equal	1259		
PI-320-424-01					FILTER 4 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32005	4091-302		Ashcroft or Equal	1259		
PI-320-520-04					FILTER 5 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32006	4091-302,303,305		Ashcroft or Equal	1259		
PI-320-524-01					FILTER 5 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32006	4091-302		Ashcroft or Equal	1259		
PI-320-612-04					FILTER 6 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32007	4091-302,303,305		Ashcroft or Equal	1259		
PI-320-624-01					FILTER 6 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32007	4091-302		Ashcroft or Equal	1259		
PI-320-712-04					FILTER 7 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32008	4091-302,303,305		Ashcroft or Equal	1259		
PI-320-724-01					FILTER 7 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32008	4091-302		Ashcroft or Equal	1259		
PI-320-820-04					FILTER 8 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32009	4091-302		Ashcroft or Equal	1259		
PI-320-824-01					FILTER 8 EFFLUENT OUTLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-32009	4091-302		Ashcroft or Equal	1259		
PI-330-120-04					ADSORBER 1 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-33002	4091-302		Ashcroft or Equal	1259		
PI-330-124-01					ADSORBER 1 EFFLUENT PRESS GAGE	P04	PRESSURE GAUGE	060-N-33002	4091-302		Ashcroft or Equal	1259		
PI-330-220-04					ADSORBER 2 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-33003	4091-302		Ashcroft or Equal	1259		
PI-330-224-01					ADSORBER #1 EFFLUENT PRESS GAGE	P04	PRESSURE GAUGE	060-N-33003	4091-302		Ashcroft or Equal	1259		
PI-330-320-04					ADSORBER 3 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-33004	4091-302		Ashcroft or Equal	1259		
PI-330-324-01					ADSORBER #2 EFFLUENT PRESS GAGE	P04	PRESSURE GAUGE	060-N-33004	4091-302		Ashcroft or Equal	1259		
PI-330-420-04					ADSORBER 4 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-33005	4091-302		Ashcroft or Equal	1259		
PI-330-424-01					ADSORBER #3 EFFLUENT PRESS GAGE	P04	PRESSURE GAUGE	060-N-33005	4091-302		Ashcroft or Equal	1259		
PI-330-520-04					ADSORBER 5 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-33006	4091-302		Ashcroft or Equal	1259		
PI-330-524-01					ADSORBER 4 EFFLUENT PRESS GAGE	P04	PRESSURE GAUGE	060-N-33006	4091-302		Ashcroft or Equal	1259		
PI-330-620-04					ADSORBER 6 INLET PRESS GAGE	P04	PRESSURE GAUGE	060-N-33007	4091-302		Ashcroft or Equal	1259		
PI-330-624-01					ADSORBER 6 EFFLUENT PRESS GAGE	P04	PRESSURE GAUGE	060-N-33007	4091-302		Ashcroft or Equal	1259		
PI-340-105-02		PE-340-105-03			THICKENED SOLIDS TO FILTER PRESS 1 PRESS GAGE	P04	PRESSURE GAUGE	060-N-34001	4091-304		Ashcroft or Equal	1259		
PI-340-106-02		PE-340-106-03			THICKENED SOLIDS TO FILTER PRESS 2 PRESS GAGE	P04	PRESSURE GAUGE	060-N-34001	4091-304		Ashcroft or Equal	1259		
PI-340-118-01					FP FILTRATE PMP5 DISCH. PRESS GAGE	P04	PRESSURE GAUGE	060-N-34002	4091-302,303,305		Ashcroft or Equal	1259		
PI-340-126-03		PE-340-126-03			DEWATERING AID POLYMER SOLN TO FP FEED PUMPS GAGE	P04	PRESSURE GAUGE	060-N-34004	4091-304		Ashcroft or Equal	1259		
PI-340-134-03		PE-340-134-03			PIGGING STATION PRESS GAGE	P04	PRESSURE GAUGE	060-N-12001	4091-304		Ashcroft or Equal	1259		
PI-340-144-05		PE-340-144-05			CALCIUM THIOSULFATE FEED PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-34006	4091-304		Ashcroft or Equal	1259		
PI-340-146-05		PE-340-146-05			CALCIUM THIOSULFATE FEED PMP 2 DISCHG PRESS GAGE AND SEAL	P04	PRESSURE GAUGE	060-N-34006	4091-304		Ashcroft or Equal	1259		

TAG NO	FUNCTION	ACCESSORY TAG 1	ACCESSORY TAG 2	ACCESSORY TAG 3	LOOP TITLE	COMP_CODE	INSTRUMENT NAME	P+ID NO	DESIGNDETAIL	PANEL NO	MANUFACTR	MODEL	SUPPLY_VOLT	UPS LOAD
PI-340-148-05		PE-340-148-05			CALCIUM THIOSULFATE FEED PMP 3 DISCHG PRESS GAGE AND SEAL	P04	PRESSURE GAUGE	060-N-34006	4091-304		Ashcroft or Equal	1259		
PI-340-150-03		PE-340-150-03			CALCIUM THIOSULFATE FEED TO ABSORBERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-34006	4091-304		Ashcroft or Equal	1259		
PI-340-152-03		PE-340-152-03			CALCIUM THIOSULFATE FEED 3 TO ABSORBERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-34006	4091-304		Ashcroft or Equal	1259		
PI-340-156-07		PE-340-156-06			CALCIUM THIOSULFATE FEED PMP 4 DISCHG GAGE AND SEAL	P04	PRESSURE GAUGE	060-N-34007	4091-304		Ashcroft or Equal	1259		
PI-340-160-03		PE-340-160-03			CALCIUM THIOSULFATE TO BWS PMP5 PRESS GAGE	P04	PRESSURE GAUGE	060-N-34007	4091-304		Ashcroft or Equal	1259		
PI-340-174-02					COMB COMPRESSED AIR TO FILTER PRESSES	P04	PRESSURE GAUGE	060-N-34008	4091-302		Ashcroft or Equal	1259		
PI-340-174-07					TNK-340-174-06 COMPRESSED AIR RECEIVER TANK PRESS GAGE	P04	PRESSURE GAUGE	060-N-34008	4091-302		Ashcroft or Equal	1259		
PI-340-185-01					INST AIR TO FILTER PRESSES PRESS GAGE	P04	PRESSURE GAUGE	060-N-34008	4091-302		Ashcroft or Equal	1259		
PI-400-134-01					FINISHED WATER TO THAYNES TANK PRESS GAGE	P04	PRESSURE GAUGE	060-N-40003	4091-302,303,305		Ashcroft or Equal	1259		
PI-400-136-01					FINISHED WATER TO BOOTHILL TANK PRESS GAGE	P04	PRESSURE GAUGE	060-N-40003	4091-302,303,305		Ashcroft or Equal	1259		
PI-400-142-01					BACKWASH SUPPLY TO ABSORBERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-40004	4091-302		Ashcroft or Equal	1259		
PI-500-102-05		PE-500-102-04			THICKENED SOLIDS PMP 1 DISCHG PRESS GAUGE	P04	PRESSURE GAUGE	060-N-50001	4091-304		Ashcroft or Equal	1259		
PI-500-103-05		PE-500-103-04			THICKENED SOLIDS PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-50001	4091-304		Ashcroft or Equal	1259		
PI-500-116-04		PE-500-116-03			BWW POLYMER FEED PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-50003	4091-304		Ashcroft or Equal	1259		
PI-500-118-04		PE-500-118-03			BWW POLYMER FEED PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-50003	4091-304		Ashcroft or Equal	1259		
PI-500-119-03		PE-500-120-03			BWW POLYMER FEED TO BWW CLARIFIER PRESS GAGE	P04	PRESSURE GAUGE	060-N-50003	4091-304		Ashcroft or Equal	1259		
PI-500-132-04		PE-500-132-03			TAP FEED PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-50005	4091-304		Ashcroft or Equal	1259		
PI-500-134-04		PE-500-134-03			TAP FEED PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-50005	4091-304		Ashcroft or Equal	1259		
PI-500-136-03		PE-500-136-03			TAP SOLN TO SETTLED SOLIDS MIXER SM-200-01 PRESS GAGE	P04	PRESSURE GAUGE	060-N-50005	4091-304		Ashcroft or Equal	1259		
PI-800-201-04		PE-800-201-03			FERRIC SULFATE FEED PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80002	4091-304		Ashcroft or Equal	1259		
PI-800-202-04		PE-800-202-03			FERRIC SULFATE FEED PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80002	4091-304		Ashcroft or Equal	1259		
PI-800-203-06		PE-800-203-05			FERRIC SULFATE FEED PMP 3 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80003	4091-304		Ashcroft or Equal	1259		
PI-800-204-06		PE-800-204-05			FERRIC SULFATE FEED PMP 4 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80003	4091-304		Ashcroft or Equal	1259		
PI-800-210-03		PE-800-210-03			FERRIC SULFATE TO RAPID MIXER PRESS GAGE	P04	PRESSURE GAUGE	060-N-80002	4091-304		Ashcroft or Equal	1259		
PI-800-220-03		PE-800-220-03			FERRIC SULFATE TO BWW CLARIFIER PRESS GAGE	P04	PRESSURE GAUGE	060-N-80003	4091-304		Ashcroft or Equal	1259		
PI-800-305-06		PE-800-305-04			SULFURIC ACID FEED PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80005	4091-304		Ashcroft or Equal	1259		
PI-800-306-06		PE-800-306-04			SULFURIC ACID FEED PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80005	4091-304		Ashcroft or Equal	1259		
PI-800-307-06		PE-800-307-04			SULFURIC ACID FEED PMP 3 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80005	4091-304		Ashcroft or Equal	1259		
PI-800-310-03		PE-800-310-03			SULFURIC ACID TO FILTERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-80005	4091-304		Ashcroft or Equal	1259		
PI-800-320-03		PE-800-320-03			SULFURIC ACID TO ADSORBERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-80005	4091-304		Ashcroft or Equal	1259		
PI-800-405-09		PE-800-405-07			NAOH FEED PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80007	4091-304		Ashcroft or Equal	1259		
PI-800-406-09		PE-800-406-07			NAOH FEED PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80007	4091-304		Ashcroft or Equal	1259		
PI-800-407-09		PE-550-407-07			NAOH FEED PMP 3 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80008	4091-304		Ashcroft or Equal	1259		
PI-800-408-09		PE-800-408-07			NAOH FEED PMP 4 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80008	4091-304		Ashcroft or Equal	1259		
PI-800-409-09		PE-800-409-07			NAOH FEED PMP 5 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80009	4091-304		Ashcroft or Equal	1259		
PI-800-410-09		PE-800-410-07			NAOH FEED PMP 6 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80009	4091-304		Ashcroft or Equal	1259		
PI-800-420-03		PE-800-420-03			NAOH TO RAPID MIX PRESS GAGE	P04	PRESSURE GAUGE	060-N-80007	4091-304		Ashcroft or Equal	1259		
PI-800-422-03		PE-800-422-03			NAOH TO ABSORBERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-80008	4091-304		Ashcroft or Equal	1259		
PI-800-424-03		PE-800-424-03			NAOH TO SETTLED SOLIDS MIXER SM-200-01 PRESS GAGE	P04	PRESSURE GAUGE	060-N-80009	4091-304		Ashcroft or Equal	1259		
PI-800-500-01					W2 WATER TO WATER SOFTENERS PRESSURE GAGE	P04	PRESSURE GAUGE	060-N-80010	4091-302		Ashcroft or Equal	1259		
PI-800-500-03					W2 WATER PRESS GAGE TO SHC GEN SKID	P04	PRESSURE GAUGE	060-N-80010	4091-302		Ashcroft or Equal	1259		
PI-800-500-10					W2 WATER PRESS GAGE TO BRINE SATURATOR TANK	P04	PRESSURE GAUGE	060-N-80010	4091-302		Ashcroft or Equal	1259		
PI-800-710-08		PE-800-710-08			SHC METERING PMP 1 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-711-03		PE-800-711-03			SODIUM HYPOCHLORITE TO RAPID MIX PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-712-08		PE-800-712-08			SHC METERING PMP 2 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-714-08		PE-800-714-08			SHC METERING PMP 3 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-715-03		PE-800-715-03			SODIUM HYPOCHLORITE TO ABSORBERS PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-716-08		PE-800-716-08			SHC METERING PMP 4 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-718-08		PE-800-718-08			SHC METERING PMP 5 DISCHG PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-719-03		PE-800-719-03			SODIUM HYPOCHLORITE TO SETTLED SOLIDS MIXER SM-200-01 PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-720-08		PE-800-720-08			SHC METERING PMP 6 HIGH DISCHG PRESS GAGE AND SEAL	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PI-800-721-03		PE-800-721-03			SODIUM HYPOCHLORITE TO THIRIOT SPRINGS FILTER PRESS GAGE	P04	PRESSURE GAUGE	060-N-80012	4091-304		Ashcroft or Equal	1259		
PE-120-104-04		PI-120-104-04			JUDGE RAW WATER MICRO HYDRO INLET PRESS GAGE SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-12001	4091-303		Ashcroft or Equal	Type 103		
PE-120-108-03		PIT-120-108-03	PI-120-108-03		JUDGE BYPASS RAW WATER LINE PRESS SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-12002	4091-303		Ashcroft or Equal	Type 103		
PE-120-112-03		PI-120-112-03			SRW TO JET INJECTION PRESS GAGE SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-12002	4091-303		Ashcroft or Equal	Type 103		
PE-120-118-02		PIT-120-118-02	PI-120-118-02		ROCKPORT TO SPIRO HYD PRESS XMTR SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-12003	4091-303		Ashcroft or Equal	Type 103		
PE-130-102-03		PIT-130-102-03	PI-130-102-03		JUDGE MH WATER PRESS TO JET MIXER INLET PRES SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-13001	4091-303		Ashcroft or Equal	Type 103		
PE-140-201-03		PSH-140-201-03			FLAP FEED PMP 1 DISCHG HIGH PRESS SW. SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-14002	4091-303		Ashcroft or Equal	Type 103		
PE-140-201-04		PI-140-201-04			FLAP FEED PMP 1 DISCHG PRESS GAGE SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-14002	4091-303		Ashcroft or Equal	Type 103		

TAG NO	FUNCTION	ACCESSORY TAG 1	ACCESSORY TAG 2	ACCESSORY TAG 3	LOOP TITLE	COMP_CODE	INSTRUMENT NAME	P+ID NO	DESIGNDETAIL	PANEL NO	MANUFACTR	MODEL	SUPPLY_VOLT	UPS LOAD
PE-800-719-03		PI-800-719-03	PI-800-719-03		SHC METERING PMPs 5 & 6 COMB. PRESS XMTR SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-80012	4091-303		Ashcroft or Equal	Type 103		
PE-800-720-07		PSH-800-720-07			SHC METERING PMP 6 DISCHG PRESS SW. SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-80012	4091-303		Ashcroft or Equal	Type 103		
PE-800-720-08		PI-800-720-08			SHC METERING PMP 6 DISCHG PRESS GAGE SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-80012	4091-303		Ashcroft or Equal	Type 103		
PE-800-721-03		PIT-800-721-03	PI-800-721-03		SHC METERING PMPs 5 & 6 TO THIRIOT SPRINGS PRESS SEAL	P06	PRESSURE SEAL, DIAPHRAGM	060-N-80012	4091-303		Ashcroft or Equal	Type 103		
PSH-120-202-01					SCREENED RAW WATER TO HVAC SYSTEM HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-12004	4091-302		Ashcroft or Equal	B424BXSFNHC4		
PSH-120-202-02					SCREENED RAW WATER TO HVAC SYSTEM HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-12004	4091-302		Ashcroft or Equal	B424BXSFNHC4		
PSH-140-201-03		PE-140-201-03			FLAP FEED PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-14002	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-140-202-03		PE-140-202-03			FLAP FEED PMP #1 HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-14002	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-200-103-04		PE-200-103-03			THIRIOT SPRINGS PMP 1 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-12001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-200-103-07		PE-200-103-06			THIRIOT SPRINGS PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-12001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-200-104-04		PE-200-104-03			THIRIOT SPRINGS PMP 2 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-12001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-200-104-07		PE-200-104-06			THIRIOT SPRINGS PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-12001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-200-401-05		PE-200-401-04			SETTLED SOLIDS PMP 1 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-20004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-200-401-08		PE-200-401-07			SETTLED SOLIDS PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-20004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-200-402-05		PE-200-402-04			SETTLED SOLIDS PMP 2 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-20004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-200-402-08		PE-200-402-07			SETTLED SOLIDS PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-20004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-200-403-05		PE-200-403-04			SETTLED SOLIDS PMP 3 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-20004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-200-403-08		PE-200-403-07			SETTLED SOLIDS PMP 3 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-20004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-310-120-04					BWW CLAR RECYCLE PMP 1 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31003	4091-302,303,305		Ashcroft or Equal	B424BXSFNHC4		
PSH-310-120-07					BWW CLAR RECYCLE PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31003	4091-302,303,305		Ashcroft or Equal	B424BXSFNHC4		
PSL-310-122-04					BWW CLAR RECYCLE PMP 2 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31003	4091-302,303,305		Ashcroft or Equal	B424BXSFNHC4		
PSH-310-122-07					BWW CLAR RECYCLE PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31003	4091-302,303,305		Ashcroft or Equal	B424BXSFNHC4		
PSL-310-128-04		PE-310-128-03			BWW CLAR SETTLED SOLIDS PMP 1 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-310-128-07		PE-310-128-06			BWW CLAR SETTLED SOLIDS PMP 1 HIGH DISCHG PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-310-130-04		PE-310-130-03			BWW CLAR SETTLED SOLIDS PMP 2 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-310-130-07		PE-310-130-06			BWW CLAR SETTLED SOLIDS PMP 2 HIGH DISCHG PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-31004	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-105-03		PE-340-105-03			THICKENED SOLIDS TO FILTER PRESS 1 HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-106-03		PE-340-106-03			THICKENED SOLIDS TO FILTER PRESS 2 HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-118-02					FFP FILTRATE TO GRAVITY THICKENING HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34002	4091-302,303,305		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-140-02		PE-340-140-02			PRE-COAT FEED TO FILTER PRESS HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34005	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-144-04		PE-340-144-04			CALCIUM THIOSULFATE FEED PMP 1 DISCH. HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34006	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-146-04		PE-340-146-04			CALCIUM THIOSULFATE FEED PMP 2 DISCH. HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34006	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-148-04		PE-340-148-04			CALCIUM THIOSULFATE FEED PMP 3 DISCH. HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34006	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-156-06		PE-340-156-06			CALCIUM THIOSULFATE FEED PMP 4 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34007	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-340-174-07					AIR RECEIVER HIGH PRESSURE	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34008						
PSL-340-174-07					AIR RECEIVER LOW PRESSURE	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-34008						
PSL-500-102-03		PE-500-102-03			THICKENED SOLIDS PMP 1 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-500-102-06		PE-500-102-04			THICKENED SOLIDS PMP 1 HIGH DISCHG PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSL-500-103-03		PE-500-103-03			THICKENED SOLIDS PMP 2 LOW SUCTION PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-500-103-06		PE-500-103-04			THICKENED SOLIDS PMP 2 HIGH DISCHG PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50001	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-500-116-05		PE-500-116-03			BWW POLYMER FEED PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50003	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-500-118-05		PE-500-118-03	PE-500-118-03		BWW POLYMER FEED PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50003	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-500-132-05		PE-500-132-02			THICKENING AID POLYMER FEED PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50005	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-500-134-05		PE-500-134-02			THICKENING AID POLYMER FEED PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-50005	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-201-05		PE-800-201-02			FERRIC SULFATE FEED PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80002	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-202-05		PE-800-202-03			FERRIC SULFATE FEED PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80002	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-203-07		PE-800-203-05			FERRIC SULFATE FEED PMP 3 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80003	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-204-07		PE-800-204-05			FERRIC SULFATE FEED PMP 4 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80003	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-305-05		PE-800-305-04			SULFURIC ACID FEED PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80005	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-306-05		PE-800-306-04			SULFURIC ACID FEED PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80005	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-307-05		PE-800-307-04			SULFURIC ACID FEED PMP 3 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80005	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-405-08		PE-800-405-07			NAOH FEED PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80007	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-406-08		PE-800-406-07			NAOH FEED PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80007	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-407-08		PE-800-270-02			NAOH FEED PMP 3 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80008	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-408-08		PE-800-272-02			NAOH FEED PMP 4 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80008	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-409-08		PE-800-278-02			NAOH FEED PMP 5 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80009	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-410-08		PE-800-280-02			NAOH FEED PMP 6 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80009	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-710-07		PE-800-710-07			SHC METERING PMP 1 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80012	4091-304		Ashcroft or Equal	B424BXSFNHC4		
PSH-800-712-07		PE-800-712-07			SHC METERING PMP 2 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80012	4091-304		Ashcroft or Equal	B424BXSFNHC4		

TAG NO	FUNCTION	ACCESSORY TAG 1	ACCESSORY TAG 2	ACCESSORY TAG 3	LOOP TITLE	COMP_CODE	INSTRUMENT NAME	P+ID NO	DESIGNDETAIL	PANEL NO	MANUFACTR	MODEL	SUPPLY_VOLT	UPS_LOAD
PSH-800-714-07		PE-800-714-07			SHC METERING PMP 3 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80012	4091-304		Ashcroft or Equal	B4248XFSNHC4		
PSH-800-716-07		PE-800-716-07			SHC METERING PMP 4 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80012	4091-304		Ashcroft or Equal	B4248XFSNHC4		
PSH-800-718-07		PE-800-718-07			SHC METERING PMP 5 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80012	4091-304		Ashcroft or Equal	B4248XFSNHC4		
PSH-800-720-07		PE-800-720-07			SHC METERING PMP 6 DISCHG HIGH PRESS SW.	P08	PRESSURE SWITCH, FIXED DEAD BAND	060-N-80012	4091-304		Ashcroft or Equal	B4248XFSNHC4		
PIT-120-108-03		PE-120-108-03			JUDGE RAW WATER BYPASS TO JUDGE CHAMBER PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-12002	4091-304		E&H OR Equal	PMP71		
PIT-120-118-02		PE-120-118-02			ROCKPORT BYPASS LINE TO EAST DITCH PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-12003	4091-304		E&H OR Equal	PMP71		
PIT-130-102-03		PE-130-102-03			JUDGE MH WATER PRESS TO JET MIXER INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-13001	4091-304		E&H OR Equal	PMP71		
PIT-140-206-03		PE-140-206-03			FLAP FEED PMPs COMB DISCHG PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-14002	4091-304		E&H OR Equal	PMP71		
PIT-200-107-02		PE-200-107-02			THIRIOT SPRINGS BOX DISCHG PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-12001	4091-304		E&H OR Equal	PMP71		
PIT-200-307-02					SETTLED WATER PMP 4 DISCHG PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-20003	4091-302		E&H OR Equal	PMP71		
PIT-200-406-02		PE-200-406-02			UNTHICKENED SOLIDS TO GRAV THICKENERS PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-20004	4091-304		E&H OR Equal	PMP71		
PIT-310-103-03					BWW CLAR PMPs COMB DISCHG PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-31001	4091-302,303,305		E&H OR Equal	PMP71		
PIT-320-120-04					FILTER 1 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32002	4091-302		E&H OR Equal	PMP71		
PIT-320-124-01					FILTER 1 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32002	4091-302		E&H OR Equal	PMP71		
PIT-320-220-04					FILTER 2 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32003	4091-302		E&H OR Equal	PMP71		
PIT-320-224-01					FILTER 2 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32003	4091-302		E&H OR Equal	PMP71		
PIT-320-320-04					FILTER 3 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32004	4091-302		E&H OR Equal	PMP71		
PIT-320-324-01					FILTER 3 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32004	4091-302		E&H OR Equal	PMP71		
PIT-320-420-04					FILTER 4 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32005	4091-302		E&H OR Equal	PMP71		
PIT-320-424-01					FILTER 4 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32005	4091-302		E&H OR Equal	PMP71		
PIT-320-520-04					FILTER 5 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32006	4091-302		E&H OR Equal	PMP71		
PIT-320-524-01					FILTER 5 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32006	4091-302		E&H OR Equal	PMP71		
PIT-320-612-04					FILTER 6 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32007	4091-302		E&H OR Equal	PMP71		
PIT-320-624-01					FILTER 6 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32007	4091-302		E&H OR Equal	PMP71		
PIT-320-712-04					FILTER 7 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32008	4091-302		E&H OR Equal	PMP71		
PIT-320-724-01					FILTER 7 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32008	4091-302		E&H OR Equal	PMP71		
PIT-320-820-04					FILTER 8 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32009	4091-302		E&H OR Equal	PMP71		
PIT-320-824-01					FILTER 8 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-32009	4091-302		E&H OR Equal	PMP71		
PIT-330-120-04					ADSORBER 1 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33002	4091-302		E&H OR Equal	PMP71		
PIT-330-124-01					ADSORBER 1 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33002	4091-302		E&H OR Equal	PMP71		
PIT-330-220-04					ADSORBER 2 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33003	4091-302		E&H OR Equal	PMP71		
PIT-330-224-01					ADSORBER #1 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33003	4091-302		E&H OR Equal	PMP71		
PIT-330-320-04					ADSORBER 3 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33004	4091-302		E&H OR Equal	PMP71		
PIT-330-324-01					ADSORBER #2 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33004	4091-302		E&H OR Equal	PMP71		
PIT-330-420-04		v			ADSORBER 4 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33005	4091-302		E&H OR Equal	PMP71		
PIT-330-424-01					ADSORBER #3 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33005	4091-302		E&H OR Equal	PMP71		
PIT-330-520-04					ADSORBER 5 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33006	4091-302		E&H OR Equal	PMP71		
PIT-330-524-01					ADSORBER 4 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33006	4091-302		E&H OR Equal	PMP71		
PIT-330-620-04					ADSORBER 6 INLET PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33007	4091-302		E&H OR Equal	PMP71		
PIT-330-624-01					ADSORBER 5 EFFLUENT PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-33007	4091-302		E&H OR Equal	PMP71		
PIT-340-118-01					FILTRATE TO GRAVITY THICKENING PRESS XMITTER (NO PE)	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-34002	4091-302,303,305		E&H OR Equal	PMP71		

TAG NO	FUNCTION	ACCESSORY TAG 1	ACCESSORY TAG 2	ACCESSORY TAG 3	LOOP TITLE	COMP_CODE	INSTRUMENT NAME	P+ID NO	DESIGNDETAIL	PANEL NO	MANUFACTR	MODEL	SUPPLY_VOLT	UPS_LOAD
PIT-340-126-03		PE-340-126-03			DEWTRG AID POLMR SOLN TO SOLIDS BLNDG TNK PRESS TRNSMTR	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-34004	4091-304		E&H OR Equal	PMP71		
PIT-340-150-03		PE-340-150-03			CALCIUM THIOSULFATE FEED TO ABSORBERS PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-34006	4091-304		E&H OR Equal	PMP71		
PIT-340-152-03		PE-340-152-03			CALCIUM THIOSULFATE FEED TO POND 14 PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-34006	4091-304		E&H OR Equal	PMP71		
PIT-340-160-03		PE-340-160-03			CALCIUM THIOSULFATE PRESS TO BWS PMP5 PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-34007	4091-304		E&H OR Equal	PMP71		
PIT-400-134-01					FINISHED WATER TO THAYNES TANK PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-40003	4091-303,305		E&H OR Equal	PMP71		
PIT-400-136-01					FINISHED WATER TO BOOTHILL TANK PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-40003	4091-303,305		E&H OR Equal	PMP71		
PIT-400-142-01					BACKWASH SUPPLY TO ABSORBERS PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-40004	4091-302		E&H OR Equal	PMP71		
PIT-500-102-05		PE-500-102-04			THICKENED SOLIDS PMP 1 DISCHG PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-50001	4091-304		E&H OR Equal	PMP71		
PIT-500-103-05		PE-500-103-04			THICKENED SOLIDS PMP 2 DISCHG PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-50001	4091-304		E&H OR Equal	PMP71		
PIT-500-119-03		PE-500-119-03			BWW POLY FEED PMP COMB DISCHG PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-50003	4091-304		E&H OR Equal	PMP71		
PIT-500-136-03		PE-500-136-03			THKNG AID PLYMR SOLN TO SETTLED SOLIDS MIXER SM-200-01 PRESS XMTR	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-50005	4091-304		E&H OR Equal	PMP71		
PIT-700-100-02		PE-700-100-02			NG TO GENERATOR PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-70001	4091-304		E&H OR Equal	PMP71		
PIT-800-210-03		PE-800-210-03			FERRIC SULFATE TO RAPID MIXER PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80002	4091-304		E&H OR Equal	PMP71		
PIT-800-220-03		PE-800-220-03			FERRIC SULFATE TO BWW CLARIFIER PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80003	4091-304		E&H OR Equal	PMP71		
PIT-800-310-03		PE-800-310-03			SULFURIC ACID TO FILTERS PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80005	4091-304		E&H OR Equal	PMP71		
PIT-800-320-03		PE-800-320-03			SULFURIC ACID TO ADSORBERS PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80005	4091-304		E&H OR Equal	PMP71		
PIT-800-420-03		PE-800-420-03			NAOH TO RAPID MIX PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80007	4091-304		E&H OR Equal	PMP71		
PIT-800-422-03		PE-800-422-03			NAOH TO ABSORBERS PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80008	4091-304		E&H OR Equal	PMP71		
PIT-800-424-03		PE-800-424-03			NAOH TO SETTLED SOLIDS MIXER SM-200-01 PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80009	4091-304		E&H OR Equal	PMP71		
PIT-800-711-03		PE-800-711-03			SODIUM HYPOCHLORITE TO RAPID MIX PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80012	4091-304		E&H OR Equal	PMP71		
PIT-800-715-03		PE-800-715-03			SODIUM HYPOCHLORITE TO ABSORBERS PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80012	4091-304		E&H OR Equal	PMP71		
PIT-800-719-03		PE-800-719-03			SODIUM HYPOCHLORITE TO SETTLED SOLIDS MIXER SM-200-01 PRESS XMTR	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80012	4091-304		E&H OR Equal	PMP71		
PIT-800-721-03		PE-800-721-03			SODIUM HYPOCHLORITE TO THIRIOT SPRINGS FILTER PRESS XMITTER	P09	PRESSURE TRANSMITTER, ELECTRONIC	060-N-80012	4091-304		E&H OR Equal	PMP71		
PE-200-401-04		PSL-200-401-05	PI-200-401-06		SETTLED SOLIDS PMP 1 SUCTION PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-20004			Red Valve or Equal	Series 40 3"		
PE-200-401-07		PSH-200-401-08	PI-200-401-09		SETTLED SOLIDS PMP 1 DISCHG PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-20004			Red Valve or Equal	Series 40 3"		
PE-200-402-04		PSL-200-402-05	PI-200-402-06		SETTLED SOLIDS PMP 2 SUCTION PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-20004			Red Valve or Equal	Series 40 3"		
PE-200-402-07		PSH-200-402-08	PI-200-402-09		SETTLED SOLIDS PMP 2 DISCHG PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-20004			Red Valve or Equal	Series 40 3"		
PE-200-403-04		PSL-200-403-05	PI-200-403-06		SETTLED SOLIDS PMP 3 SUCTION PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-20004			Red Valve or Equal	Series 40 3"		
PE-200-403-07		PSH-200-402-08	PI-200-403-09		SETTLED SOLIDS PMP 3 DISCHG PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-20004			Red Valve or Equal	Series 40 3"		
PE-200-406-02		PIT-200-406-02			SETTLED SOLIDS PMP5 COMB DISCHG PRESS SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-20004			Red Valve or Equal	Series 40 3"		
PE-310-128-03		PSL-310-128-04	PI-310-128-05		BWW CLAR SETTLED SOLIDS PMP 1 SUCTION PRESS SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-31004			Red Valve or Equal	Series 40 3"		
PE-310-128-06		PSH-310-128-07	PI-310-128-08		BWW CLAR SETTLED SOLIDS PMP 1 DISCHG PRESS SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-31004			Red Valve or Equal	Series 40 3"		
PE-310-130-03		PSL-310-130-04	PI-310-130-05		BWW CLAR SETTLED SOLIDS PMP 2 SUCTION PRESS SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-31004			Red Valve or Equal	Series 40 3"		
PE-310-130-06		PSH-310-130-07	PI-310-130-08		BWW CLAR SETTLED SOLIDS PMP 2 DISCHG PRESS SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-31004			Red Valve or Equal	Series 40 3"		
PE-340-105-03		PSH-340-105-03	PI-340-105-02		THICKENED SOLIDS TO FILTER PRESS 1 PRESS SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-34001			Ashcroft or Equal	Type 103		
PE-340-106-03		PSH-340-106-03	PI-340-106-02		THICKENED SOLIDS TO FILTER PRESS 1 PRESS SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-34001			Ashcroft or Equal	Type 103		
PE-500-102-03		PSL-500-102-03			THICKENED SOLIDS PMP 1 SUCTION PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-50001			Red Valve or Equal	Series 40 4"		
PE-500-102-04		PIT-500-102-05			THICKENED SOLIDS PMP 1 DISCHG PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-50001			Red Valve or Equal	Series 40 4"		
PE-500-103-03		PSL-500-103-03			THICKENED SOLIDS PMP 2 SUCTION PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-50001			Red Valve or Equal	Series 40 4"		
PE-500-103-04		PSH-500-103-06	PIT-500-103-05	PI-500-103-05	THICKENED SOLIDS PMP 2 DISCHG PRESS SW. SEAL	P15	PRESSURE SEAL, ANNULAR	060-N-50001			Red Valve or Equal	Series 40 4"		
LI-800-101-01					FERRIC SULFATE STORAGE TANK 1 LEVEL INDICATOR TRUCK UNLOADING PANEL	S12	INDICATOR, FIELD MOUNT	060-N-80001	N/A	LCP-800-04	RED LION	TBD		
LI-800-101-04		LE-800-101-04			FERRIC SULFATE STORAGE TANK 1 LEVEL INDICATOR	S12	INDICATOR, FIELD MOUNT	060-N-80001	N/A		E&H or Equal	RID 16		
LI-800-102-02					FERRIC SULFATE STORAGE TANK 2 LEVEL INDICATOR TRUCK UNLOADING PANEL	S12	INDICATOR, FIELD MOUNT	060-N-80001	N/A	LCP-800-04	RED LION	TBD		
LI-800-102-04		LE-800-212-02			FERRIC SULFATE STORAGE TANK 2 LEVEL INDICATOR	S12	INDICATOR, FIELD MOUNT	060-N-80001	N/A		E&H or Equal	RID 16		
LI-800-301-01					SULFURIC ACID STORAGE TANK 1 LEVEL INDICATOR TRUCK UNLOADING PANEL	S12	INDICATOR, FIELD MOUNT	060-N-80004	N/A		RED LION	TBD		
LI-800-301-05		LE-800-301-05			SULFURIC ACID STORAGE TANK 1 LEVEL INDICATOR	S12	INDICATOR, FIELD MOUNT	060-N-80004	N/A		E&H or Equal	RID 16		
LI-800-302-02					SULFURIC ACID STORAGE TANK 2 LEVEL INDICATOR TRUCK UNLOADING PANEL	S12	INDICATOR, FIELD MOUNT	060-N-80004	N/A		RED LION	TBD		
LI-800-302-05		LE-800-302-05			SULFURIC ACID STORAGE TANK 2 LEVEL INDICATOR	S12	INDICATOR, FIELD MOUNT	060-N-80004	N/A		E&H or Equal	RID 16		
LI-800-401-01					SODIUM HYDROXIDE STORAGE TANK 1 LEVEL INDICATOR TRUCK UNLOADING PANEL	S12	INDICATOR, FIELD MOUNT	060-N-80006	N/A		RED LION	TBD		
LI-800-401-04		LE-800-401-04			SODIUM HYDROXIDE STORAGE TANK 1 LEVEL INDICATOR	S12	INDICATOR, FIELD MOUNT	060-N-80006	N/A		E&H or Equal	RID 16		

TAG NO	FUNCTION	ACCESSORY TAG 1	ACCESSORY TAG 2	ACCESSORY TAG 3	LOOP TITLE	COMP_CODE	INSTRUMENT NAME	P+ID NO	DESIGNDETAIL	PANEL NO	MANUFACTR	MODEL	SUPPLY_VOLT	UPS LOAD
LI-800-402-02					SODIUM HYDROXIDE STORAGE TANK 2 LEVEL INDICATOR TRUCK UNLOADING PANEL	S12	INDICATOR, FIELD MOUNT	060-N-80006	N/A		RED LION	TBD		
LI-800-402-05		LE-800-402-04			SODIUM HYDROXIDE STORAGE TANK 2 LEVEL INDICATOR	S12	INDICATOR, FIELD MOUNT	060-N-80006	N/A		E&H or Equal	RID 16		
LI-800-501-03					BRINE SATURATOR TANK LEVEL INDICATOR	S12	INDICATOR, FIELD MOUNT	060-N-80010	N/A		E&H or Equal	RID 16		
TI-800-500-04					W2 WATER THERMOMETER TO SODIUM HYPOCHLORITE GEN SKID	T09	THERMOMETER, ADJUSTABLE ANGLE	060-N-80010	4091-362,-363		Ashcroft	50EI60E090XC4NN		
TI-800-590-01					SFW HEAT EXCHANGER HX-800-01 OUTPUT THERMOMETER	T09	THERMOMETER, ADJUSTABLE ANGLE	060-N-80011	4091-362,-363		Ashcroft	50EI60E090XC4NN		
WIT-140-100-01		WE-140-100-01			FLOCC AID POLY TOTE WEIGH SCALE 1 XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-14001	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-140-100-02		WE-140-100-02			FFLOCC AID POLY TOTE WEIGH SCALE 2 XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-14001	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-140-200-01		WE-140-200-01			FLOCC AID POLY AGING TANK WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-14002	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-340-120-01		WE-340-120-01			DEWATERING AID POLY TOTE WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-34003	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-340-142-01		WE-340-142-01			CALCIUM THIOSULFATE TOTE WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-34006	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-500-104-01		WE-500-104-01			BWW POLYMER TOTE WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-50002	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-500-104-02		WE-500-104-02			THICK AID/BWW POLY SWING WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-50002	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-500-112-01		WE-500-112-01			BWW POLY TANK WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-50003	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-500-120-01		WE-500-120-01			THICK AID POLY TOTE WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-50004	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA
WIT-500-130-01		WE-500-130-01			THICK AID POLY AGING TANK WEIGH SCALE XMITTER	W01	WEIGHT ELEMENT AND TRANSMITTER, LOAD CELL	060-N-50005	N/A		Force Flow or Equal	27-DR6DS	120V UPS	100 VA

GENERAL	1	Tag Number	P&ID	FE-140-106-01	060-N-14001
	2	Loop Title		FLOCCULANT AID POLYMER FLOW TO AGING TANK	
	3	Area Classification		Non-Hazardous	
	4				
	5	Line Number	Equipment Number		
	6	Line Size	Line Schedule		
	7				
PROCESS CONDITIONS	8	Fluid		FLOCCULATION AID POLYMER SOLUTION	
	9				
	10	Min Flow	Max Flow		
	11	Nominal Pressure			
	12	Nominal Temperature			
	13	Specific Gravity	Viscosity	1.0	
	14	Conductivity	Density		
	15	Vapor Pressure	Critical Pressure		
	16				
	17	Vacuum Possibility		No	
METERING ELEMENT	19	Element Tag		FE-140-106-01	
	20	Element Size		1.5"	
	21	Process Connection		1-1/2 inch Class 150 ANSI Flange	
	22	Electrical Connection		0.5 inch NPT	
	23	Tube Material		Stainless Steel	
	24	Liner Material		PTFE	
	25	Electrode Type		Bullet Nose	
	26	Electrode Material		316 SS	
	27	Range		0-85	
	28	Element Cable Length			
	29	Grounding Type	Material	Grounding Ring	316SS
	30	Enclosure NEMA Rating		NEMA 4X	
	31	Minimum Measurable Velocity		0.033 Feet/Sec	
32					
TRANSMITTER	33	Transmitter Tag		FIT-140-106-01	
	34	Mounting			
	35	Enclosure NEMA Rating		NEMA 4X	
	36	Power Supply	Voltage	4 - Wire	120 VAC
	37	Output Signal			
	38	Communication Protocol			
	39	Calibrated Range			
	40	Low Flow Cutoff			
	41	Ambient Temperature Limits		-5 degF to 140 degF	
	42	Process Temperature Limits		32 degF to 122 degF	
	43				
44	Accuracy	Repeatability	0.5 Pct of Span		
OPTIONS	45	Vendor Calibration		Factory calibrate - Provide calibration certificate	
	46	Tagging		Affix stainless steel tag with Tag Number	
	47	Element Mounting Bracket			
	48	Display Protection			
PURCHASE	49	Manufacturer		E&H	
	50	Model Number		PROMAG W 400/ Ethernet IP	
	51	Grounding Rings Model Number		Order with rings	
	52	Purchase Note			
53					
F04 FLOW ELEMENT & TRANSMITTER, ELECTROMAGNETIC			694342 - 3KINGS WTF PHASE III DESIGN 6/11/20		
			FE-140-106-01		

GENERAL	1	Tag Number	P&ID	FSL-340-160-01	060-N-34007
	2	Loop Title		CT FEED FLOW TO BW SUPPLY PUMPS	
	3	Area Classification			
	4				
	5	Line Number	Equipment Number		
	6	Line Size	Line Schedule		
	7				
PROCESS CONDITIONS	8	Fluid		CALCIUM THIOSULFATE	
	9	Pressure			
	10	Temperature			
	11	Specific Gravity	Viscosity		
	12	Conductivity	Density		
	13	Vapor Pressure	Critical Pressure		
	14	Min Flow	Max Flow		
ELEMENT	15	Element Type		Thermal Air Flow	
	16	Element Range			
	17	Process Connection			
	18	Wetted Materials			
	19				
	20	Enclosure NEMA Rating			
	21				
	22	Process Pressure Limits		120 PSIG	
	23	Process Temperature Limits		-10 degF - 250 degF	
SWITCH	25	Switch Type		Thermal Air Flow	
	26	Set Point			
	27	Set Point Direction			
	28	Deadband		15 Percent Maximum	
	29	Failure State		None	
	30	Voltage		24VDC	
	31	Contact Arrangement		SPDT	
	32	Contact Rating		4A	
	33	Communication Protocol			
TRANSMITTER	35				
	36				
	37				
	38				
	39				
	40				
	41	Vendor Calibration		Factory calibrate - Provide calibration certificate	
CALIBRATION	42				
	43				
	44	Accuracy	Repeatability	+/- 10 Percent	1.0 Percent
	45				
OPTIONS	46	Tagging		Affix stainless steel tag with Tag Number	
	47				
	48				
	49				
PURCHASE	50	Manufacturer		FCI or Equal	
	51	Model Number		FTL93S	
	52	Purchase Note			
	53				

F23 FLOW ELEMENT & SWITCH, THERMAL	694342 - 3KINGS WTF PHASE III DESIGN 6/11/20
	FSL-340-160-01

GENERAL	1	Tag Number	P&ID	LIT-800-501-04	060-N-80010
	2	Loop Title		BRINE SATURATOR TANK LIQUID LEVEL	
	3	Area Classification		Non-Classified	
	4	Line Number	Equipment Number		
	5	Line Size	Line Schedule		
	6				
PROCESS CONDITIONS	7	Fluid			
	8	Pressure		Atmospheric	
	9	Temperature			
	10	Specific Gravity	Viscosity	1.0	
	11	Conductivity	Density		
	12	Vapor Pressure	Critical Pressure		
	13				
ELEMENT	14	Element Tag		PE-800-501-04	
	15	Element Material			
	16	Body Rating			
	17	Instrument Body Material		AISI 316L	
	18	Wetted Materials		AISI 316L	
	19	Process Connection		3" NOZZLE	
	20	Measurable Limits			
	21	Ambient Temperature Limits		-4 degF to 185 degF	
	22	Process Temperature Limits		-4 degF to 185 degF	
	23	Wetted O-Ring Material		3" NOZZLE	
DIAPHRAGM SEAL - ANNULAR SEAL	24	Type		DIAPHRAGM	
	25	Process Connection			
	26	Body Material			
	27	Diaphragm / Sleeve Material			
	28	Capillary Material			
	29	Capillary Length			
	30	Fill Fluid			
	31	Flushing Connection			
	32	Manufacturer			
	33	Model Number		INCLUDED WITH LIT Integral	
TRANSMITTER	34	Mounting			
	35	Enclosure NEMA Rating			
	36	Power Supply	Voltage	2 - Wire	24 VDC
	37	Output Signal			
	38	Communication Protocol			
	39	Range		0-12	
	40				
CALIBRATION	41	Calibrated Range			
	42	Vendor Calibration		Factory calibrate - Provide calibration certificate	
	43	Zero Elevation			
	44	Zero Reference		Bottom of Tank	
	45	Accuracy	Repeatability	0.075 Pct of Span	
	46				
PURCHASE	47	Multi-Valve Manifold		NA	
	48	Tagging		Affix stainless steel tag with Tag Number	
	49				
PURCHASE	50	Manufacturer		E&H or Equal	
	51	Model Number		FMD77-27337/101	
	52	Purchase Note		1 year warranty	
	53				
L10 LEVEL TRANSMITTER, PRESSURE				694342 - 3KINGS WTF PHASE III DESIGN 6/11/20	
				LIT-800-501-04	

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GENERAL	1	Tag Number	P&ID	LIT-800-510-04	060-N-80011
	2	Loop Title		SHC STORAGE TANK 1 LEVEL XMITTER	
	3	Area Classification		Non-Classified	
	4	Line Number	Equipment Number		
	5	Line Size	Line Schedule		
	6				
PROCESS CONDITIONS	7	Fluid		SODIUM HYPOCHLORITE CONCENTRATED/DRAIN	
	8	Pressure		Atmospheric	
	9	Temperature			
	10	Specific Gravity	Viscosity	1.0	
	11	Conductivity	Density		
	12	Vapor Pressure	Critical Pressure		
	13				
ELEMENT	14	Element Tag		PE-800-510-04	
	15	Element Material			
	16	Body Rating			
	17	Instrument Body Material		AISI 316L	
	18	Wetted Materials		AISI 316L	
	19	Process Connection		3" NOZZLE	
	20	Measurable Limits			
	21	Ambient Temperature Limits		-4 degF to 185 degF	
	22	Process Temperature Limits		-4 degF to 185 degF	
	23	Wetted O-Ring Material		3" NOZZLE	
DIAPHRAGM SEAL - ANNULAR SEAL	24	Type		DIAPHRAGM	
	25	Process Connection			
	26	Body Material			
	27	Diaphragm / Sleeve Material			
	28	Capillary Material			
	29	Capillary Length			
	30	Fill Fluid			
	31	Flushing Connection			
	32	Manufacturer			
	33	Model Number		INCLUDED WITH LIT Integral	
TRANSMITTER	34	Mounting			
	35	Enclosure NEMA Rating			
	36	Power Supply	Voltage	2 - Wire	24 VDC
	37	Output Signal			
	38	Communication Protocol			
	39	Range		0-15	
	40				
CALIBRATION	41	Calibrated Range		14	
	42	Vendor Calibration		Factory calibrate - Provide calibration certificate	
	43	Zero Elevation			
	44	Zero Reference		Bottom of Tank	
	45	Accuracy	Repeatability	0.075 Pct of Span	
	46				
	47	Multi-Valve Manifold		NA	
	48	Tagging		Affix stainless steel tag with Tag Number	
	49				
PURCHASE	50	Manufacturer		E&H or Equal	
	51	Model Number		FMD77-27337/101	
	52	Purchase Note		1 year warranty	
	53				
L10 LEVEL TRANSMITTER, PRESSURE				694342 - 3KINGS WTF PHASE III DESIGN	
				LIT-800-510-04	

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GENERAL	1	Tag Number	P&ID	LIT-800-600-03	060-N-80011
	2	Loop Title		HIGH CONC SHC STORAGE TANK 1 LEVEL XMITTER	
	3	Area Classification		Non-Classified	
	4	Line Number	Equipment Number		
	5	Line Size	Line Schedule		
	6				
PROCESS CONDITIONS	7	Fluid		SODIUM HYPOCHLORITE SOLUTION/OVER FLOW	
	8	Pressure		Atmospheric	
	9	Temperature			
	10	Specific Gravity	Viscosity	1.0	
	11	Conductivity	Density		
	12	Vapor Pressure	Critical Pressure		
	13				
ELEMENT	14	Element Tag		PE-800-600-03	
	15	Element Material			
	16	Body Rating			
	17	Instrument Body Material		AISI 316L	
	18	Wetted Materials		AISI 316L	
	19	Process Connection		3" NOZZLE	
	20	Measurable Limits			
	21	Ambient Temperature Limits		-4 degF to 185 degF	
	22	Process Temperature Limits		-4 degF to 185 degF	
	23	Wetted O-Ring Material		3" NOZZLE	
DIAPHRAGM SEAL - ANNULAR SEAL	24	Type		DIAPHRAGM	
	25	Process Connection			
	26	Body Material			
	27	Diaphragm / Sleeve Material			
	28	Capillary Material			
	29	Capillary Length			
	30	Fill Fluid			
	31	Flushing Connection			
	32	Manufacturer		INCLUDED WITH LIT	
	33	Model Number		Integral	
TRANSMITTER	34	Mounting		Integral	
	35	Enclosure NEMA Rating			
	36	Power Supply	Voltage	2 - Wire	24 VDC
	37	Output Signal			
	38	Communication Protocol			
	39	Range		0-4	
	40				
CALIBRATION	41	Calibrated Range		3.5	
	42	Vendor Calibration		Factory calibrate - Provide calibration certificate	
	43	Zero Elevation			
	44	Zero Reference		Bottom of Tank	
	45	Accuracy	Repeatability	0.075 Pct of Span	
	46				
	47	Multi-Valve Manifold		NA	
	48	Tagging		Affix stainless steel tag with Tag Number	
	49				
PURCHASE	50	Manufacturer		E&H or Equal	
	51	Model Number		FMD77-27337/101	
	52	Purchase Note		1 year warranty	
	53				
L10 LEVEL TRANSMITTER, PRESSURE				694342 - 3KINGS WTF PHASE III DESIGN 6/11/20	
				LIT-800-600-03	

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