

INSTRUMENT INDEX (R2)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION			REFERENCES				
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
001	1	F	550	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
002	1	F	550	HS-2	Computer-Off-Hand Selector Switch	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
003	1	F	550	LSHH	High High Level Switch	Fermenter 1	17701-A	I102	L13.02	ILD-05	F12.02	CON
004	1	F	550	MD1	Motorized Damper Actuator	Primary Sludge Fermenter 1 Supply Air			L13.06	ILD-03	FM2.01	CON
005	1	F	550	MM-1	Running Pilot Light	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
006	1	F	550	MO-1	Stopped Pilot Light	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
007	1	F	550	OSH	High Torque Switch	Fermenter 1	11521	-	L13.02	ILD-13	F12.02	PKG
008	1	F	550	OSHH	High High Torque Switch	Fermenter 1	11521	-	L13.02	ILD-13	F12.02	PKG
009	1	F	550	ZS	Position Switch	Fermenter 1	11521	-	L13.02	ILD-13	F12.02	PKG
010	1	F	551	FCV	Motorized Valve Actuator	Fermenter 1 Sludge Control Valve	17701-A	-	L13.04	ILD-03	F12.03	CON
011	1	F	551	FE	Magnetic Flow Element	Fermenter Sludge Pumps Discharge	17701-A	I101	L13.04	ILD-04	P11.01	CON
012	1	F	551	FIT	Magnetic Flow Transmitter	Fermenter Sludge Pumps Discharge	17701-A	I101	L13.04	ILD-04	P11.01	CON
013	1	F	551	PSH	High Pressure Switch	Fermenter Sludge Pump 1 Discharge			L13.04	ILD-11	F12.03	PKG
014	1	F	552	FCV	Flow Control Valve	Fermenter 2 Sludge	17701-A	-	L13.04	ILD-03	F12.03	CON
015	1	F	552	PSH	High Pressure Switch	Fermenter Sludge Pump 2 Discharge			L13.04	ILD-11	F12.03	PKG
016	2	F	553	FV	Solenoid Valve	Fermenter 1 Spray Water	17701-A	I108	L13.02	ILD-10	F12.03	CON
017	2	F	553	HS-1	Local-Remote Selector Switch	Fermenter 1 Spray Water Solenoid Valve	17216	-	L13.02	ILD-10	F12.03	CON
018	2	F	553	HS-2	Open/Close Selector Switch	Fermenter 1 Spray Water Solenoid Valve	17216	-	L13.02	ILD-10	F12.03	CON
019	1	F	553	PSL	Low Pressure Switch	Fermenter Sludge Pumps Process Air	17701-A	I105	L13.04	ILD-05	F12.03	CON
020	2	F	555	FV-1	Solenoid Valve	Fermenter Sprnatnt Wet Well Spray	17701-A	I108	L13.05	ILD-10	F12.03	CON
021	2	F	555	FV-2	Solenoid Valve	Fermenter Sprnatnt Wet Well Flush Water	17701-A	I108	L13.05	ILD-10	F12.03	CON
022	2	F	555	HS-1	Local-Remote Selector Switch	Fermenter Sprnatnt Wet Well SprayValve	17216	-	L13.05	ILD-10	F12.03	CON
023	2	F	555	HS-2	Open/Close Selector Switch	Fermenter Sprnatnt Wet Well SprayValve	17216	-	L13.05	ILD-10	F12.03	CON
024	2	F	555	HS-3	Local-Remote Selector Switch	Fermenter Sprnatnt Wet Well Flushing Valve	17216	-	L13.05	ILD-10	F12.03	CON
025	2	F	555	HS-4	Open/Close Selector Switch	Fermenter Sprnatnt Wet Well Flushing Valve	17216	-	L13.05	ILD-10	F12.03	CON
026	1	F	555	LSHH	High High Level Switch	Fermenter Sprnatnt Wet Well	17701-A	I102	L13.05	ILD-05	F12.02	CON
027	1	F	555	PIT-1	Pressure Transmitter	Fermenter Sprnatnt Wet Well	17701-A	I106	L13.05	ILD-08	F12.03	CON
028	1	F	555	PIT-2	Pressure Transmitter	Fermenter Supernatant Wetwell	17701-A	I106	L13.06	ILD-08	F12.02	CON
029	1	F	555	PSLL	Low Low Pressure Switch	Fermenter Sprnatnt Wet Well	17701-A	I105	L13.05	ILD-05	F12.03	CON
030	1	F	556	FCV	Motorized Valve Actuator	Fermenter Supernatant Pump 2 Disch. Valve	17213	-	L13.05	ILD-03	F12.03	CON
031	1	F	556	FE	Magnetic Flow Element	Bioreactor 1 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
032	1	F	556	FIT	Magnetic Flow Transmitter	Bioreactor 1 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
033	1	F	556	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Supernatant Pump 1	17216	-	L13.05	ILD-14	F12.03	CON
034	1	F	556	HS-2	Computer-Off-Hand Selector Switch	Fermenter Supernatant Pump 1	17216	-	L13.05	ILD-14	F12.03	CON
035	1	F	556	PI	Pressure Indicator	Fermenter Supernatant Pump 1 Discharge			L13.05		F12.03	CON
036	1	F	557	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Supernatant Pump 2	17216	-	L13.05	ILD-14	F12.03	CON
037	1	F	557	HS-2	Computer-Off-Hand Selector Switch	Fermenter Supernatant Pump 2	17216	-	L13.05	ILD-14	F12.03	CON
038	1	F	557	PI	Pressure Indicator	Fermenter Supernatant Pump 2 Discharge			L13.05		F12.03	CON
039	1	F	558	FCV	Motorized Valve Actuator	Fermenter Supernatant Pump 2 Disch. Valve	17213	-	L13.05	ILD-03	F12.03	CON
040	1	F	558	FE	Magnetic Flow Element	Bioreactor 2 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
041	1	F	558	FIT	Magnetic Flow Transmitter	Bioreactor 2 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
042	1	F	558	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Supernatant Pump 3	17216	-	L13.05	ILD-14	F12.03	CON
043	1	F	558	HS-2	Computer-Off-Hand Selector Switch	Fermenter Supernatant Pump 3	17216	-	L13.05	ILD-14	F12.03	CON
044	1	F	558	PI	Pressure Indicator	Fermenter Supernatant Pump 3 Discharge			L13.05		F12.03	CON
045	1	F	560	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter 2	17216	-	L13.03	ILD-13	F12.02	CON
046	1	F	560	HS-2	Computer-Off-Hand Selector Switch	Fermenter 2	17216	-	L13.03	ILD-13	F12.02	CON
047	1	F	560	LSHH	High High Level Switch	Fermenter 2	17701-A	I102	L13.03	ILD-05	F12.02	CON
048	1	F	560	MD1	Motorized Damper Actuator	Primary Sludge Fermenter 2 Supply Air			L13.06	ILD-03	FM2.01	CON

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RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION		REFERENCES					
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
049	1	F	560	MM-1	Running Pilot Light	Fermenter 2	17216	-	L13.03	ILD-13	FI2.02	CON
050	1	F	560	MO-1	Stopped Pilot Light	Fermenter 2	17216	-	L13.03	ILD-13	FI2.02	CON
051	1	F	560	OSH	High Torque Switch	Fermenter 2	11521	-	L13.03	ILD-13	FI2.02	PKG
052	1	F	560	OSHH	High High Torque Switch	Fermenter 2	11521	-	L13.03	ILD-13	FI2.02	PKG
053	1	F	560	ZS	Position Switch	Fermenter 2	11521	-	L13.03	ILD-13	FI2.02	PKG
054	2	F	561	FV	Solenoid Valve	Fermenter 2 Spray Water	17701-A	I108	L13.03	ILD-10	FI2.03	CON
055	2	F	561	HS-1	Local-Remote Selector Switch	Fermenter 2 Spray Water Solenoid Valve	17216	-	L13.03	ILD-10	FI2.03	CON
056	2	F	561	HS-2	Open/Close Selector Switch	Fermenter 2 Spray Water Solenoid Valve	17216	-	L13.03	ILD-10	FI2.03	CON
057	1	F	610	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
058	1	F	610	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
059	1	F	610	IS	Current Switch	Primary Sludge Fermenter 1 Supply Air Fan		-	L13.06	ILD-12	MCC	CON
060	1	F	610	MM-1	Running Pilot Light	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
061	1	F	610	MO-1	Stopped Pilot Light	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
062	1	F	620	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
063	1	F	620	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
064	1	F	620	IS	Current Switch	Primary Sludge Fermenter 2 Supply Air Fan		-	L13.06	ILD-05	MCC	CON
065	1	F	620	MM-1	Running Pilot Light	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
066	1	F	620	MO-1	Stopped Pilot Light	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
067	1	F	650	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Odour Control Fan	17216	-	L13.06	ILD-14	FM2.01	CON
068	1	F	650	HS-2	Computer-Off-Hand Selector Switch	Fermenter Odour Control Fan	17216	-	L13.06	ILD-14	FM2.01	CON
069	1	F	651	MD1	Motorized Damper Actuator	Fermenter Odour Control Fan Inlet			L13.06	ILD-03		CON
070	1	F	652	MD1	Motorized Damper Actuator	Fermenter Odour Control Fan Outlet			L13.06	ILD-03		CON
071	1	F	660	HS-1	Lock Off Stop (LOS) Pushbutton	Thermal Oxidizer Odour Control Fan	17216	-	L13.06	ILD-12	FM2.01	CON
072	1	F	660	HS-2	Computer-Off-Hand Selector Switch	Thermal Oxidizer Odour Control Fan	17216	-	L13.06	ILD-12	FM2.01	CON
073	1	F	660	IS	Current Switch	Thermal Oxidizer Odour Control Fan		-	L13.06	ILD-05	MCC	CON
074	1	F	660	MM-1	Running Pilot Light	Thermal Oxidizer Odour Control Fan			L13.06	ILD-12	FM2.01	CON
075	1	F	660	MO-1	Stopped Pilot Light	Thermal Oxidizer Odour Control Fan			L13.06	ILD-12	FM2.01	CON
076	1	F	660	PIT	Pressure Transmitter	Thermal Oxidizer Fan Suction	17701-A	I106	L13.06	ILD-08		CON
077	1	F	661	HS	Lock Off Stop (LOS) Pushbutton	Thermal Oxidizer	17216	-	L13.06	ILD-09	FI2.03	CON
078	1	F	661	MD1	Motorized Damper Actuator	Thermal Oxidizer Inlet Damper			L13.06	ILD-03	FM2.01	CON
079	1	F	661	TE	RTD	Thermal Oxidizer			L13.06	ILD-09	FI2.03	CON
080	1	F	661	TT	Temperature Transmitter	Thermal Oxidizer			L13.06	ILD-09	FI2.03	CON
081	1	F	662	MD1	Motorized Damper Actuator	Thermal Oxidizer Bypass Damper			L13.06	ILD-03	FM2.01	CON
082	1	H	655	HS-1	Lock Off Stop (LOS) Pushbutton	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
083	1	H	655	HS-2	Computer-Off-Hand Selector Switch	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
084	1	H	655	IS	Current Switch	Tanker Unloading Odour Control Fan		-	L13.06	ILD-05	MCC	CON
085	1	H	655	MM-1	Running Pilot Light	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
086	1	H	655	MO-1	Stopped Pilot Light	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
087	1	H	710	HS-1	Lock Off Stop (LOS) Pushbutton	DAF & Hworks Odour Control Fan	17216	-	L13.06	ILD-12	HM1.01	CON
088	1	H	710	HS-2	Computer-Off-Hand Selector Switch	DAF & Hworks Odour Control Fan	17216	-	L13.06	ILD-12	HM1.01	CON
089	1	H	710	IS	Current Switch	DAF & Hworks Odour Control Fan		-	L13.06	ILD-05	MCC	CON
090	1	H	710	MD1	Motorized Damper Actuator	Headworks Sludge Storage Tanks Exh. Air			L13.06	ILD-03		CON
091	1	H	710	MM-1	Running Pilot Light	DAF & Hworks Odour Control Fan			L13.06	ILD-12	HM1.01	CON
092	1	H	710	MO-1	Stopped Pilot Light	DAF & Hworks Odour Control Fan			L13.06	ILD-12	HM1.01	CON
093	1	H	710	PSH	High Pressure Switch	DAF & Hworks Odour Control Fan Suction	17701-A	I105	L13.06	ILD-05	HM1.01	CON
094	1	P	110	FCV	Motorized Valve Actuator	Primary Clarifier 1 Discharge Valve	17213	-	L11.01	ILD-03	PI1.01	CON
095	1	P	120	FCV	Motorized Valve Actuator	Primary Clarifier 2 Discharge Valve	17213	-	L11.01	ILD-03	PI1.01	CON
096	1	P	235	FE	Magnetic Flow Element	Fermenters Primary Sludge Feed	17701-A	I101	L13.01	ILD-04	FI2.03	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Part of Equipment Package

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RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION		REFERENCES					
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
097	1	P	235	FIT	Magnetic Flow Transmitter	Fermenters Primary Sludge Feed	17701-A	I101	LI3.01	ILD-04	FI2.03	CON
098	1	P	236	FCV	Pneumatic Valve Actuator	Fermenter 2 Primary Sludge Control Valve	17213	-	LI3.03	ILD-02	FI2.03	CON
099	1	P	236	FE	Magnetic Flow Element	Fermenter 2 Primary Sludge	17701-A	I101	LI3.03	ILD-04	FI2.03	CON
100	1	P	236	FIT	Magnetic Flow Transmitter	Fermenter 2 Primary Sludge	17701-A	I101	LI3.03	ILD-04	FI2.03	CON
101	1	P	250	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Pump 1	17216	-	LI1.01	ILD-14	PI1.01	CON
102	1	P	250	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Pump 1	17216	-	LI1.01	ILD-14	PI1.01	CON
103	1	P	260	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Pump 2	17216	-	LI1.01	ILD-14	PI1.01	CON
104	1	P	260	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Pump 2	17216	-	LI1.01	ILD-14	PI1.01	CON
105	1	P	270	LSH	High Level Switch	Primary Clarifier Pump Room Sump			LI1.02	ILD-15	PI1.01	Div. 15
106	1	P	270	LSL	Low Level Switch	Primary Clarifier Pump Room Sump			LI1.02	ILD-15	PI1.01	Div. 15
107	1											
108	1	S	111	FCV	Pneumatic Valve Actuator	Bioreactor 1 Anoxic Zone 2 Control Valve	17213	-	LI2.01	ILD-02	SI5.02	CON
109	1	S	111	FE	Magnetic Flow Element	Bioreactor 1 Anoxic Zones	17701-A	I101	LI2.01	ILD-04	SI5.02	CON
110	1	S	111	FIT	Magnetic Flow Transmitter	Bioreactor 1 Anoxic Zones	17701-A	I101	LI2.01	ILD-04	SI5.02	CON
111	1	S	112	FCV	Pneumatic Valve Actuator	Bioreactor 1 Anoxic Zone 1 Control Valve	17213	-	LI2.01	ILD-02	SI5.02	CON
112	1	S	112	FE	Magnetic Flow Element	Bioreactor 1 Anaerobic Zone	17701-A	I101	LI2.01	ILD-04	SI5.02	CON
113	1	S	112	FIT	Magnetic Flow Transmitter	Bioreactor 1 Anaerobic Zone	17701-A	I101	LI2.01	ILD-04	SI5.02	CON
114	1	S	113	FCV	Pneumatic Valve Actuator	Bioreactor 1 Anaerobic Zone Control Valve	17213	-	LI2.01	ILD-02	SI5.02	CON
115	1	S	114	FCV	Pneumatic Valve Actuator	Bioreactor 1 Pre Anoxic Zone Inlet Valve	17213	-	LI2.01	ILD-02	SI5.02	CON
116	1											
117	1	S	121	FCV	Pneumatic Valve Actuator	Bioreactor 2 Anoxic Zone 2 Control Valve	17213	-	LI2.03	ILD-02	SI5.03	CON
118	1	S	121	FE	Magnetic Flow Element	Bioreactor 2 Anoxic Zones	17701-A	I101	LI2.03	ILD-04	SI5.03	CON
119	1	S	121	FIT	Magnetic Flow Transmitter	Bioreactor 2 Anoxic Zones	17701-A	I101	LI2.03	ILD-04	SI5.03	CON
120	1	S	122	FCV	Pneumatic Valve Actuator	Bioreactor 2 Anoxic Zone 1 Control Valve	17213	-	LI2.03	ILD-02	SI5.03	CON
121	1	S	122	FE	Magnetic Flow Element	Bioreactor 2 Anaerobic Zone	17701-A	I101	LI2.03	ILD-04	SI5.03	CON
122	1	S	122	FIT	Magnetic Flow Transmitter	Bioreactor 2 Anaerobic Zone	17701-A	I101	LI2.03	ILD-04	SI5.03	CON
123	1	S	123	FCV	Pneumatic Valve Actuator	Bioreactor 2 Anaerobic Zone Control Valve	17213	-	LI2.03	ILD-02	SI5.03	CON
124	1	S	124	FCV	Pneumatic Valve Actuator	Bioreactor 2 Pre Anoxic Zone Inlet Valve	17213	-	LI2.03	ILD-02	SI5.03	CON
125	1	S	125	FCV	Pneumatic Valve Actuator	Fermenters Primary Sludge Dilution Wtr Valve	17213	-	LI3.01	ILD-02	FI2.03	CON
126	1	S	125	FE	Magnetic Flow Element	Fermenters Primary Sludge Dilution Water	17701-A	I101	LI3.01	ILD-04	FI2.03	CON
127	1	S	125	FIT	Magnetic Flow Transmitter	Fermenters Primary Sludge Dilution Water	17701-A	I101	LI3.01	ILD-04	FI2.03	CON
128	1	S	451	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 1	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
129	1	S	451	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 1	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
130	1	S	451	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 1 Process Air Ctl Valve	17213	-	LI2.02	ILD-02	SI5.02	CON
131	2	S	451	FV	Solenoid Valve	AE-S451 Air Jet	17701-A	I108	LI2.02	ILD-01	SI5.01	CON
132	1	S	452	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 2	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
133	1	S	452	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 2	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
134	1	S	452	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 2 Process Air Ctl Valve	17213	-	LI2.02	ILD-02	SI5.02	CON
135	2	S	452	FV	Solenoid Valve	AE-S452 Air Jet	17701-A	I108	LI2.02	ILD-01	SI5.01	CON
136	1	S	453	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 2 Process Air Ctl Valve	17213	-	LI2.02	ILD-02	SI5.02	CON
137	1	S	454	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 3	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
138	1	S	454	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 3	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
139	1	S	454	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 3 Process Air Ctl Valve	17213	-	LI2.02	ILD-02	SI5.02	CON
140	2	S	454	FV	Solenoid Valve	AE-S454 Air Jet	17701-A	I108	LI2.02	ILD-01	SI5.01	CON
141	1	S	455	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 3 Process Air Ctl Valve	17213	-	LI2.02	ILD-02	SI5.02	CON
142	1	S	456	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 4	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
143	1	S	456	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 4	17701-A	I104	LI2.02	ILD-01	SI5.01	CON
144	1	S	456	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 4 Process Air Ctl Valve	17213	-	LI2.02	ILD-02	SI5.02	CON

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145	2	S	456	FV	Solenoid Valve	AE-S456 Air Jet	17701-A	I108	L12.02	ILD-01	SI5.01	CON
146	1	S	457	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 4 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON
147	1	S	458	FCV	Motorized Valve Actuator	Bioreactor 1 Aerobic 4 Process Air Ctl Valve	17213	-	L12.02	ILD-03	SI5.02	CON
148	1	S	458	PSH	High Pressure Switch	Bioreactor 1 Process Air	17701-A	I105	L12.02	ILD-05	SI5.02	CON
149	1	S	461	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 1	17701-A	I104	L12.04	ILD-01	SI5.01	CON
150	1	S	461	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 1	17701-A	I104	L12.04	ILD-01	SI5.01	CON
151	1	S	461	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 1 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
152	2	S	461	FV	Solenoid Valve	AE-S461 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
153	1	S	462	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 2	17701-A	I104	L12.04	ILD-01	SI5.01	CON
154	1	S	462	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 2	17701-A	I104	L12.04	ILD-01	SI5.01	CON
155	1	S	462	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 2 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
156	2	S	462	FV	Solenoid Valve	AE-S462 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
157	1	S	463	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 2 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
158	1	S	464	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 3	17701-A	I104	L12.04	ILD-01	SI5.01	CON
159	1	S	464	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 3	17701-A	I104	L12.04	ILD-01	SI5.01	CON
160	1	S	464	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 3 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
161	2	S	464	FV	Solenoid Valve	AE-S464 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
162	1	S	465	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 3 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
163	1	S	466	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 4	17701-A	I104	L12.04	ILD-01	SI5.01	CON
164	1	S	466	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 4	17701-A	I104	L12.04	ILD-01	SI5.01	CON
165	1	S	466	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 4 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
166	2	S	466	FV	Solenoid Valve	AE-S466 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
167	1	S	467	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 4 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
168	1	S	468	FCV	Motorized Valve Actuator	Bioreactor 2 Aerobic 4 Process Air Ctl Valve	17213	-	L12.04	ILD-03	SI5.03	CON
169	1	S	468	PSH	High Pressure Switch	Bioreactor 2 Process Air	17701-A	I105	L12.04	ILD-05	SI5.03	CON
170	1	S	510	HS-1	Lock Off Stop (LOS) Pushbutton	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
171	1	S	510	HS-2	Computer-Off-Hand Selector Switch	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
172	1	S	510	MM-1	Running Pilot Light	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
173	1	S	510	MO-1	Stopped Pilot Light	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
174	1	S	510	OSH	High Torque Switch	Secondary Clarifier 1	11525	-	L12.08	ILD-13	SI6.01	PKG
175	1	S	510	OSHH	High High Torque Switch	Secondary Clarifier 1	11525	-	L12.08	ILD-13	SI6.01	PKG
176	1	S	510	ZS	Position Switch	Secondary Clarifier 1	11525	-	L12.08	ILD-13	SI6.01	PKG
177	1	S	520	HS-1	Lock Off Stop (LOS) Pushbutton	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
178	1	S	520	HS-2	Computer-Off-Hand Selector Switch	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
179	1	S	520	MM-1	Running Pilot Light	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
180	1	S	520	MO-1	Stopped Pilot Light	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
181	1	S	520	OSH	High Torque Switch	Secondary Clarifier 2	11525	-	L12.08	ILD-13	SI6.01	PKG
182	1	S	520	OSHH	High High Torque Switch	Secondary Clarifier 2	11525	-	L12.08	ILD-13	SI6.01	PKG
183	1	S	520	ZS	Position Switch	Secondary Clarifier 2	11525	-	L12.08	ILD-13	SI6.01	PKG
184	1	S	530	FCV	Pneumatic Valve Actuator	Sec. Clarifier 3 Mixed Liquor Inlet Valve	17213	-	L12.06	ILD-02	SI6.04	CON
185	1	S	530	FE	Magnetic Flow Element	Secondary Clarifier 3 Mixed Liquor Feed	17701-A	I101	L12.06	ILD-04	SI6.04	CON
186	1	S	530	FIT	Magnetic Flow Transmitter	Secondary Clarifier 3 Mixed Liquor Feed	17701-A	I101	L12.06	ILD-04	SI6.04	CON
187	1	S	530	HS-1	Lock Off Stop (LOS) Pushbutton	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
188	1	S	530	HS-2	Computer-Off-Hand Selector Switch	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
189	1	S	530	MM-1	Running Pilot Light	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
190	1	S	530	MO-1	Stopped Pilot Light	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
191	1	S	530	OSH	High Torque Switch	Secondary Clarifier 3	11525	-	L12.06	ILD-13	SI6.02	PKG
192	1	S	530	OSHH	High High Torque Switch	Secondary Clarifier 3	11525	-	L12.06	ILD-13	SI6.02	PKG

INSTRUMENT INDEX (R2)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION		REFERENCES					
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
193	1	S	530	ZS	Position Switch	Secondary Clarifier 3	11525	-	L12.06	ILD-13	SI6.02	PKG
194	1	S	710	FE	Magnetic Flow Element	R.A.S. Pump 1 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
195	1	S	710	FIT	Magnetic Flow Transmitter	R.A.S. Pump 1 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
196	1	S	710	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 1	17216	-	L12.08	ILD-14	SI6.04	CON
197	1	S	710	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 1	17216	-	L12.08	ILD-14	SI6.04	CON
198	1	S	720	FE	Magnetic Flow Element	R.A.S. Pump 2 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
199	1	S	720	FIT	Magnetic Flow Transmitter	R.A.S. Pump 2 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
200	1	S	720	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 2	17216	-	L12.08	ILD-14	SI6.04	CON
201	1	S	720	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 2	17216	-	L12.08	ILD-14	SI6.04	CON
202	1	S	730	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 3	17216	-	L12.08	ILD-14	SI6.04	CON
203	1	S	730	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 3	17216	-	L12.08	ILD-14	SI6.04	CON
204	2	S	740	AIT-1	NH3 Analyzer	Final Effluent	11851	-	L12.08	ILD-08	SI6.04	PKG
205	2	S	740	AIT-2	NO3 Analyzer	Final Effluent	11851	-	L12.08	ILD-08	SI6.04	PKG
206	2	S	740	AIT-3	PO4 Analyzer	Final Effluent	11851	-	L12.08	ILD-08	SI6.04	PKG
207	1	S	740	FCV	Pneumatic Valve Actuator	R.A.S. to Bioreactor 1 Flow Control Valve	17213	-	L12.01	ILD-02	SI5.02	CON
208	1	S	740	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 4	17216	-	L12.07	ILD-14	SI6.04	CON
209	1	S	740	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 4	17216	-	L12.07	ILD-14	SI6.04	CON
210	1	S	741	FCV	Pneumatic Valve Actuator	R.A.S. to Bioreactor 2 Flow Control Valve	17213	-	L12.03	ILD-02	SI5.03	CON
211	1	S	750	FE	Magnetic Flow Element	R.A.S. Pumps 4 & 5 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
212	1	S	750	FIT	Magnetic Flow Transmitter	R.A.S. Pumps 4 & 5 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
213	1	S	750	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 5	17216	-	L12.07	ILD-14	SI6.04	CON
214	1	S	750	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 5	17216	-	L12.07	ILD-14	SI6.04	CON
215	1	S	760	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
216	1	S	760	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
217	1	S	760	MM-1	Running Pilot Light	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
218	1	S	760	MO-1	Stopped Pilot Light	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
219	1	S	761	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
220	1	S	761	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
221	1	S	761	MM-1	Running Pilot Light	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
222	1	S	761	MO-1	Stopped Pilot Light	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
223	1	S	762	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
224	1	S	762	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
225	1	S	762	MM-1	Running Pilot Light	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
226	1	S	762	MO-1	Stopped Pilot Light	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
227	1	S	763	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
228	1	S	763	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
229	1	S	763	MM-1	Running Pilot Light	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
230	1	S	763	MO-1	Stopped Pilot Light	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
231	1	S	765	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
232	1	S	765	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
233	1	S	765	MM-1	Running Pilot Light	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
234	1	S	765	MO-1	Stopped Pilot Light	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
235	1	S	766	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
236	1	S	766	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
237	1	S	766	MM-1	Running Pilot Light	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
238	1	S	766	MO-1	Stopped Pilot Light	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
239	1	S	767	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
240	1	S	767	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON

INSTRUMENT INDEX (R2)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION		REFERENCES					
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
241	1	S	767	MM-1	Running Pilot Light	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
242	1	S	767	MO-1	Stopped Pilot Light	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
243	1	S	768	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
244	1	S	768	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
245	1	S	768	MM-1	Running Pilot Light	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
246	1	S	768	MO-1	Stopped Pilot Light	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
247	1	S	770	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Recycle Pump	17216	-	L12.02	ILD-14	SI5.02	CON
248	1	S	770	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Recycle Pump	17216	-	L12.02	ILD-14	SI5.02	CON
249	1	S	771	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Recycle Pump	17216	-	L12.04	ILD-14	SI5.03	CON
250	1	S	771	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Recycle Pump	17216	-	L12.04	ILD-14	SI5.03	CON
251	1	S	810	FCV	Motorized Valve Actuator	W.A.S. Pump 1 Suction Valve	17213	-	L12.05	ILD-03	SI5.02	CON
252	1	S	810	HS-1	Lock Off Stop (LOS) Pushbutton	W.A.S. Pump 1	17216	-	L12.05	ILD-14	SI5.03	CON
253	1	S	810	HS-2	Computer-Off-Hand Selector Switch	W.A.S. Pump 1	17216	-	L12.05	ILD-14	SI5.03	CON
254	1	S	820	FCV	Motorized Valve Actuator	W.A.S. Pump 2 Suction Valve	17213	-	L12.05	ILD-03	SI5.03	CON
255	1	S	820	FE	Magnetic Flow Element	W.A.S. Pumps Discharge to DAF	17701-A	I101	L12.05	ILD-04	SI5.02	CON
256	1	S	820	FIT	Magnetic Flow Transmitter	W.A.S. Pumps Discharge to DAF	17701-A	I101	L12.05	ILD-04	SI5.02	CON
257	1	S	820	HS-1	Lock Off Stop (LOS) Pushbutton	W.A.S. Pump 2	17216	-	L12.05	ILD-14	SI5.03	CON
258	1	S	820	HS-2	Computer-Off-Hand Selector Switch	W.A.S. Pump 2	17216	-	L12.05	ILD-14	SI5.03	CON
259	1	S	821	FE	Magnetic Flow Element	DAF Thickener 2 W.A.S. Feed	17701-A	I101	L14.03	ILD-04	T14.01	CON
260	1	S	821	FIT	Magnetic Flow Transmitter	DAF Thickener 2 W.A.S. Feed	17701-A	I101	L14.03	ILD-04	T14.01	CON
261	1	S	822	FCV	Pneumatic Valve Actuator	DAF Thickener 2 W.A.S. Control Valve	17213	-	L14.03	ILD-02	T14.01	CON
262	1	T	110	FV	Solenoid Valve	DAF Sludge Dilution Water Valve	17701-A	I107	L14.02	ILD-10	T14.01	CON
263	1	T	110	HS-1	Local-Remote Selector Switch	DAF 1 Sludge Dilution Water Valve	17216	-	L14.02	ILD-10	T14.01	CON
264	1	T	110	HS-2	Open/Close Selector Switch	DAF 1 Sludge Dilution Water Valve	17216	-	L14.02	ILD-10	T14.01	CON
265	1	T	110	LSH	High Level Switch	DAF 1 Float Hopper	17701-A	I102	L14.02	ILD-05	T14.01	CON
266	1	T	111	FCV	Motorized Valve Actuator	DAF 1 Sludge Discharge Valve	17213	-	L14.02	ILD-03	T14.01	CON
267	1	T	111	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
268	1	T	111	HS-2	Computer-Off-Hand Selector Switch	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
269	1	T	111	LE	Ultrasonic Level Element	DAF 1 Subnatant Wet Well	17701-A	I103	L14.02	ILD-06	T14.01	CON
270	1	T	111	LIT	Ultrasonic Level Transmitter	DAF 1 Subnatant Wet Well	17701-A	I103	L14.02	ILD-06	T14.01	CON
271	1	T	111	MD1	Motorized Damper Actuator	DAF Thickener 1 Exhaust Air			L13.06	ILD-03	TM2.02	CON
272	1	T	111	MM-1	Running Pilot Light	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
273	1	T	111	MO-1	Stopped Pilot Light	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
274	1	T	111	OSH	High Torque Switch	DAF 1 Skimmer Drive	11714	-	L14.02	ILD-13	T14.01	PKG
275	1	T	111	OSL	Low Torque Switch	DAF 1 Skimmer Drive	11714	-	L14.02	ILD-13	T14.01	PKG
276	1	T	112	FE	Magnetic Flow Element	DAF 1 Saturator Discharge	11714	-	L14.02	ILD-04	T14.01	PKG
277	1	T	112	FIT	Magnetic Flow Transmitter	DAF 1 Saturator Discharge	11714	-	L14.02	ILD-04	T14.01	PKG
278	1	T	112	FV	Solenoid Valve	DAF 1 Saturator Air Control Valve	11714	-	L14.02	ILD-10	T14.01	PKG
279	1	T	112	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	PKG
280	1	T	112	HS-2	Computer-Off-Hand Selector Switch	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	PKG
281	1	T	112	HS-3	Local-Remote Selector Switch	DAF 1 Saturator Air Control Valve	17216	-	L14.02	ILD-10	T14.01	PKG
282	1	T	112	HS-4	Open/Close Selector Switch	DAF 1 Saturator Air Control Valve	17216	-	L14.02	ILD-10	T14.01	PKG
283	1	T	112	LSH	High Level Switch	DAF 1 Saturator	11714	-	L14.02	ILD-05	T14.01	PKG
284	1	T	112	LSL	Low Level Switch	DAF 1 Saturator	11714	-	L14.02	ILD-05	T14.01	PKG
285	1	T	112	MM-1	Running Pilot Light	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	PKG
286	1	T	112	MO-1	Stopped Pilot Light	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	PKG
287	2	T	112	PSH	High Pressure Switch	DAF 1 Air Compressor	11714	-	L14.02	PKG	T14.01	PKG
288	1	T	112	PSL	Low Pressure Switch	DAF 1 Saturator Inlet Air	11714	-	L14.02	ILD-05	T14.01	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Part of Equipment Package

INSTRUMENT INDEX (R2)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION		REFERENCES					
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
289	1	T	113	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 1 Recycle Pump	17216	-	LI4.02	ILD-12	T14.01	PKG
290	1	T	113	HS-2	Computer-Off-Hand Selector Switch	DAF 1 Recycle Pump	17216	-	LI4.02	ILD-12	T14.01	PKG
291	1	T	113	MM-1	Running Pilot Light	DAF 1 Recycle Pump	17216	-	LI4.02	ILD-12	T14.01	PKG
292	1	T	113	MO-1	Stopped Pilot Light	DAF 1 Recycle Pump	17216	-	LI4.02	ILD-12	T14.01	PKG
293	1	T	120	FV	Solenoid Valve	DAF Sludge Dilution Water Valve	17701-A	I107	LI4.03	ILD-10	T14.01	CON
294	1	T	120	HS-1	Local-Remote Selector Switch	DAF 2 Sludge Dilution Water Valve	17216	-	LI4.03	ILD-10	T14.01	CON
295	1	T	120	HS-2	Open/Close Selector Switch	DAF 2 Sludge Dilution Water Valve	17216	-	LI4.03	ILD-10	T14.01	CON
296	1	T	120	LSH	High Level Switch	DAF 2 Float Hopper	17701-A	I102	LI4.03	ILD-05	T14.01	CON
297	1	T	121	FCV	Motorized Valve Actuator	DAF 2 Sludge Discharge Valve	17213	-	LI4.03	ILD-03	T14.01	CON
298	1	T	121	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 2 Skimmer Drive	17216	-	LI4.03	ILD-13	T14.01	CON
299	1	T	121	HS-2	Computer-Off-Hand Selector Switch	DAF 2 Skimmer Drive	17216	-	LI4.03	ILD-13	T14.01	CON
300	1	T	121	LE	Ultrasonic Level Element	DAF 2 Subnatant Wet Well	17701-A	I103	LI4.03	ILD-06	T14.01	CON
301	1	T	121	LIT	Ultrasonic Level Transmitter	DAF 2 Subnatant Wet Well	17701-A	I103	LI4.03	ILD-06	T14.01	CON
302	1	T	121	MD1	Motorized Damper Actuator	DAF Thickener 2 Exhaust Air			LI3.06	ILD-03	TM2.02	CON
303	1	T	121	MM-1	Running Pilot Light	DAF 2 Skimmer Drive	17216	-	LI4.03	ILD-13	T14.01	CON
304	1	T	121	MO-1	Stopped Pilot Light	DAF 2 Skimmer Drive	17216	-	LI4.03	ILD-13	T14.01	CON
305	1	T	121	OSH	High Torque Switch	DAF 2 Skimmer Drive	11714	-	LI4.03	ILD-13	T14.01	PKG
306	1	T	121	OSL	Low Torque Switch	DAF 2 Skimmer Drive	11714	-	LI4.03	ILD-13	T14.01	PKG
307	1	T	122	FE	Magnetic Flow Element	DAF 2 Saturator Discharge	11714	-	LI4.03	ILD-04	T14.01	PKG
308	1	T	122	FIT	Magnetic Flow Transmitter	DAF 2 Saturator Discharge	11714	-	LI4.03	ILD-04	T14.01	PKG
309	1	T	122	FV	Solenoid Valve	DAF 2 Saturator Air Control Valve	11714	-	LI4.03	ILD-10	T14.01	PKG
310	1	T	122	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 2 Air Compressor	17216	-	LI4.03	ILD-12	T14.01	PKG
311	1	T	122	HS-2	Computer-Off-Hand Selector Switch	DAF 2 Air Compressor	17216	-	LI4.03	ILD-12	T14.01	PKG
312	1	T	122	HS-3	Local-Remote Selector Switch	DAF 2 Saturator Air Control Valve	17216	-	LI4.03	ILD-10	T14.01	PKG
313	1	T	122	HS-4	Open/Close Selector Switch	DAF 2 Saturator Air Control Valve	17216	-	LI4.03	ILD-10	T14.01	PKG
314	1	T	122	LSH	High Level Switch	DAF 2 Saturator	11714	-	LI4.03	ILD-05	T14.01	PKG
315	1	T	122	LSL	Low Level Switch	DAF 2 Saturator	11714	-	LI4.03	ILD-05	T14.01	PKG
316	1	T	122	MM-1	Running Pilot Light	DAF 2 Air Compressor	17216	-	LI4.03	ILD-12	T14.01	PKG
317	1	T	122	MO-1	Stopped Pilot Light	DAF 2 Air Compressor	17216	-	LI4.03	ILD-12	T14.01	PKG
318	2	T	122	PSH	High Pressure Switch	DAF 2 Air Compressor	11714	-	LI4.03	PKG	T14.01	PKG
319	1	T	122	PSL	Low Pressure Switch	DAF 2 Saturator Inlet Air	11714	-	LI4.03	ILD-05	T14.01	PKG
320	1	T	123	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 2 Recycle Pump	17216	-	LI4.03	ILD-12	T14.01	PKG
321	1	T	123	HS-2	Computer-Off-Hand Selector Switch	DAF 2 Recycle Pump	17216	-	LI4.03	ILD-12	T14.01	PKG
322	1	T	123	MM-1	Running Pilot Light	DAF 2 Recycle Pump	17216	-	LI4.03	ILD-12	T14.01	PKG
323	1	T	123	MO-1	Stopped Pilot Light	DAF 2 Recycle Pump	17216	-	LI4.03	ILD-12	T14.01	PKG
324	1	T	125	HS-1	Lock Off Stop (LOS) Pushbutton	Subnatant Pump 1	17216	-	LI4.04	ILD-14	T14.01	CON
325	1	T	125	HS-2	Computer-Off-Hand Selector Switch	Subnatant Pump 1	17216	-	LI4.04	ILD-14	T14.01	CON
326	1	T	126	HS-1	Lock Off Stop (LOS) Pushbutton	Subnatant Pump 2	17216	-	LI4.04	ILD-14	T14.01	CON
327	1	T	126	HS-2	Computer-Off-Hand Selector Switch	Subnatant Pump 2	17216	-	LI4.04	ILD-14	T14.01	CON
328	1	T	127	FE	Magnetic Flow Element	DAF Subnatant to Clarifiers	17701-A	I101	LI4.04	ILD-04	T14.01	CON
329	1	T	127	FIT	Magnetic Flow Transmitter	DAF Subnatant to Clarifiers	17701-A	I101	LI4.04	ILD-04	T14.01	CON
330	1	T	130	FV	Solenoid Valve	DAF Polymer Mix Tank MakeUp Water	17701-A	I107	LI4.01	ILD-10	T14.02	PKG
331	1	T	130	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Blower	17216	-	LI4.01	ILD-12	T14.02	PKG
332	1	T	130	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Blower	17216	-	LI4.01	ILD-12	T14.02	PKG
333	1	T	130	HS-3	Local-Remote Selector Switch	DAF Polymer Mix Tank Water Control Valve	17216	-	LI4.01	ILD-10	T14.02	PKG
334	1	T	130	HS-4	Open/Close Selector Switch	DAF Polymer Mix Tank Water Control Valve	17216	-	LI4.01	ILD-10	T14.02	PKG
335	1	T	130	MM-1	Running Pilot Light	DAF Polymer Blower	17216	-	LI4.01	ILD-12	T14.02	PKG
336	1	T	130	MO-1	Stopped Pilot Light	DAF Polymer Blower	17216	-	LI4.01	ILD-12	T14.02	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Part of Equipment Package

INSTRUMENT INDEX (R2)

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION				REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE			
337	1	T	130	PSL	Low Pressure Switch	DAF Polymer Mix Tank Water Supply	17701-A	I105	LI4.01	ILD-05	T14.02	PKG
338	1	T	131	FE	Magnetic Flow Element	DAF Tank 1 Polymer Feed	17701-A	I101	LI4.01	ILD-04	T14.02	CON
339	1	T	131	FIT	Magnetic Flow Transmitter	DAF Tank 1 Polymer Feed	17701-A	I101	LI4.01	ILD-04	T14.02	CON
340	1	T	131	FV	Solenoid Valve	DAF Tank 1 Polymer Flushing Water	17701-A	I107	LI4.01	ILD-10	T14.02	CON
341	1	T	131	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Metering Pump 1	17216	-	LI4.01	ILD-14	T14.02	CON
342	1	T	131	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Metering Pump 1	17216	-	LI4.01	ILD-14	T14.02	CON
343	1	T	131	HS-3	Local-Remote Selector Switch	DAF Tank 1 Polymer Flushing Water Valve	17216	-	LI4.01	ILD-10	T14.02	CON
344	1	T	131	HS-4	Open/Close Selector Switch	DAF Tank 1 Polymer Flushing Water Valve	17216	-	LI4.01	ILD-10	T14.02	CON
345	1	T	131	LSL	Low Level Switch	DAF Polymer Run Tank			LI4.01	ILD-05	T14.02	PKG
346	1	T	131	LSLL	Low Low Level Switch	DAF Polymer Run Tank	17701-A	I102	LI4.01	ILD-05	T14.02	CON
347	1	T	131	PSH	High Pressure Switch	DAF Polymer Metering Pump 1 Discharge	17701-A	I105	LI4.01	ILD-05	T14.02	CON
348	1	T	132	FE	Magnetic Flow Element	DAF Tank 2 Polymer Feed	17701-A	I101	LI4.01	ILD-04	T14.02	CON
349	1	T	132	FIT	Magnetic Flow Transmitter	DAF Tank 2 Polymer Feed	17701-A	I101	LI4.01	ILD-04	T14.02	CON
350	1	T	132	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Metering Pump 2	17216	-	LI4.01	ILD-14	T14.02	CON
351	1	T	132	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Metering Pump 2	17216	-	LI4.01	ILD-14	T14.02	CON
352	1	T	132	HS-3	Local-Remote Selector Switch	DAF Tank 2 Polymer Flushing Water Valve	17216	-	LI4.01	ILD-10	T14.02	CON
353	1	T	132	HS-4	Open/Close Selector Switch	DAF Tank 2 Polymer Flushing Water Valve	17216	-	LI4.01	ILD-10	T14.02	CON
354	1	T	132	PSH	High Pressure Switch	DAF Polymer Metering Pump 2 Discharge	17701-A	I105	LI4.01	ILD-05	T14.02	CON
355	1	T	132	SV	Solenoid Valve	DAF Tank 2 Polymer Flushing Water	17701-A	I107	LI4.01	ILD-10	T14.02	CON
356	1	T	133	FV	Solenoid Valve	DAF Polymer Mix Tank Discharge	17701-A	I107	LI4.01	ILD-10	T14.02	PKG
357	1	T	133	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Hopper Screw Conveyor	17216	-	LI4.01	ILD-12	T14.02	PKG
358	1	T	133	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Hopper Screw Conveyor	17216	-	LI4.01	ILD-12	T14.02	PKG
359	1	T	133	HS-3	Local-Remote Selector Switch	DAF Polymer Mix Tank Discharge Valve	17216	-	LI4.01	ILD-10	T14.02	PKG
360	1	T	133	HS-4	Open/Close Selector Switch	DAF Polymer Mix Tank Discharge Valve	17216	-	LI4.01	ILD-10	T14.02	PKG
361	1	T	133	MM-1	Running Pilot Light	DAF Polymer Hopper Screw Conveyor	17216	-	LI4.01	ILD-12	T14.02	PKG
362	1	T	133	MO-1	Stopped Pilot Light	DAF Polymer Hopper Screw Conveyor	17216	-	LI4.01	ILD-12	T14.02	PKG
363	1	T	134	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Mixer	17216	-	LI4.01	ILD-12	T14.02	PKG
364	1	T	134	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Mixer	17216	-	LI4.01	ILD-12	T14.02	PKG
365	1	T	134	MM-1	Running Pilot Light	DAF Polymer Mixer	17216	-	LI4.01	ILD-12	T14.02	PKG
366	1	T	134	MO-1	Stopped Pilot Light	DAF Polymer Mixer	17216	-	LI4.01	ILD-12	T14.02	PKG
367	1	T	135	FV	Solenoid Valve	Clarifier Polymer Mix Tank MakeUp Water	11771	-	LI4.07	ILD-10	T14.02	PKG
368	1	T	135	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Blower	17216	-	LI4.07	ILD-12	T14.02	PKG
369	1	T	135	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Blower	17216	-	LI4.07	ILD-12	T14.02	PKG
370	1	T	135	HS-3	Local-Remote Selector Switch	Clarifier Polymer Mix Tank Wtr Control Valve	17216	-	LI4.07	ILD-10	T14.02	PKG
371	1	T	135	HS-4	Open/Close Selector Switch	Clarifier Polymer Mix Tank Wtr Control Valve	17216	-	LI4.07	ILD-10	T14.02	PKG
372	1	T	135	MM-1	Running Pilot Light	Clarifier Polymer Blower	17216	-	LI4.07	ILD-12	T14.02	PKG
373	1	T	135	MO-1	Stopped Pilot Light	Clarifier Polymer Blower	17216	-	LI4.07	ILD-12	T14.02	PKG
374	1	T	135	PSL	Low Pressure Switch	Clarifier Polymer Mix Tank Water Supply	17701-A	I105	LI4.07	ILD-05	T14.02	PKG
375	1	T	136	FE	Magnetic Flow Element	Primary Clarifier Polymer Feed	17701-A	I101	LI4.07	ILD-04	T14.02	CON
376	1	T	136	FIT	Magnetic Flow Transmitter	Primary Clarifier Polymer Feed	17701-A	I101	LI4.07	ILD-04	T14.02	CON
377	1	T	136	FV	Solenoid Valve	Clarifier Polymer Flushing Water	17701-A	I107	LI4.07	ILD-10	T14.02	CON
378	1	T	136	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Metering Pump 1	17216	-	LI4.07	ILD-14	T14.02	CON
379	1	T	136	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Metering Pump 1	17216	-	LI4.07	ILD-14	T14.02	CON
380	1	T	136	HS-3	Local-Remote Selector Switch	Clarifier Polymer Flushing Water Valve	17216	-	LI4.07	ILD-10	T14.02	CON
381	1	T	136	HS-4	Open/Close Selector Switch	Clarifier Polymer Flushing Water Valve	17216	-	LI4.07	ILD-10	T14.02	CON
382	1	T	136	LSL	Low Level Switch	Clarifier Polymer Run Tank			LI4.07	ILD-05	T14.02	PKG
383	1	T	136	LSLL	Low Low Level Switch	Clarifier Polymer Run Tank	17701-A	I102	LI4.07	ILD-05	T14.02	CON
384	1	T	136	PSH	High Pressure Switch	Clarifier Polymer Metering Pump 1 Discharge	17701-A	I105	LI4.07	ILD-05	T14.02	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Part of Equipment Package



INSTRUMENT INDEX (R2)

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION				REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE			
385	1	T	137	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Metering Pump 2	17216	-	L14.07	ILD-14	T14.02	CON
386	1	T	137	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Metering Pump 2	17216	-	L14.07	ILD-14	T14.02	CON
387	1	T	137	PSH	High Pressure Switch	Clarifier Polymer Metering Pump 2 Discharge	17701-A	I105	L14.07	ILD-05	T14.02	CON
388	1	T	138	FV	Solenoid Valve	Clarifier Polymer Mix Tank Discharge	11771	-	L14.07	ILD-10	T14.02	PKG
389	1	T	138	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Hopper Screw Conveyer	17216	-	L14.07	ILD-12	T14.02	PKG
390	1	T	138	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Hopper Screw Conveyer	17216	-	L14.07	ILD-12	T14.02	PKG
391	1	T	138	HS-3	Local-Remote Selector Switch	Clarifier Polymer Mix Tank Discharge Valve	17216	-	L14.07	ILD-10	T14.02	PKG
392	1	T	138	HS-4	Open/Close Selector Switch	Clarifier Polymer Mix Tank Discharge Valve	17216	-	L14.07	ILD-10	T14.02	PKG
393	1	T	138	MM-1	Running Pilot Light	Clarifier Polymer Hopper Screw Conveyer	17216	-	L14.07	ILD-12	T14.02	PKG
394	1	T	138	MO-1	Stopped Pilot Light	Clarifier Polymer Hopper Screw Conveyer	17216	-	L14.07	ILD-12	T14.02	PKG
395	1	T	139	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Mixer	17216	-	L14.07	ILD-12	T14.02	PKG
396	1	T	139	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Mixer	17216	-	L14.07	ILD-12	T14.02	PKG
397	1	T	139	MM-1	Running Pilot Light	Clarifier Polymer Mixer	17216	-	L14.07	ILD-12	T14.02	PKG
398	1	T	139	MO-1	Stopped Pilot Light	Clarifier Polymer Mixer	17216	-	L14.07	ILD-12	T14.02	PKG
399	1	T	140	HS	Reset Pushbutton	Ferric Chloride Truck Bay Annunciator Panel			L14.05	ILD-07		CON
400	1	T	140	LE	Ultrasonic Level Element	Ferric Chloride Tank	17701-A	I103	L14.05	ILD-07	T14.02	CON
401	1	T	140	LIT	Ultrasonic Level Transmitter	Ferric Chloride Tank	17701-A	I103	L14.05	ILD-07	T14.02	CON
402	1	T	140	LLH	Tank High Level Pilot light	Ferric Chloride Truck Bay Annunciator Panel			L14.05	ILD-07		CON
403	1	T	140	LSH	High Level Switch	Ferric Chloride Tank	17701-A	I102	L14.05	ILD-07	T14.02	CON
404	1	T	140	LSL	Low Level Switch	Ferric Chloride Tank	17701-A	I102	L14.05	ILD-07	T14.02	CON
405	1	T	140	XA	Horn	Ferric Chloride Truck Bay Annunciator Panel			L14.05	ILD-07		CON
406	1	T	141	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 1			L14.06	ILD-05	T14.02	PKG
407	1	T	141	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 1	17216	-	L14.06	ILD-14	T14.02	CON
408	1	T	141	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 1	17216	-	L14.06	ILD-14	T14.02	CON
409	1	T	142	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 2			L14.06	ILD-05	T14.02	PKG
410	1	T	142	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 2	17216	-	L14.06	ILD-14	T14.02	CON
411	1	T	142	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 2	17216	-	L14.06	ILD-14	T14.02	CON
412	1	T	143	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 3			L14.06	ILD-05	T14.02	PKG
413	1	T	143	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 3	17216	-	L14.06	ILD-14	T14.02	CON
414	1	T	143	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 3	17216	-	L14.06	ILD-14	T14.02	CON
415	1	T	144	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 4			L14.06	ILD-05	T14.02	PKG
416	1	T	144	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 4	17216	-	L14.06	ILD-14	T14.02	CON
417	1	T	144	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 4	17216	-	L14.06	ILD-14	T14.02	CON
418	1	T	145	LSH	High Level Switch	Ferric Chloride Containment Sump	17701-A	I102	L14.06	ILD-05	T14.02	CON
419	2	T	910	ZS	Security Motion Detector	Intruder Security System	17701-A	I109	-	ILD-16	T14.01	CON
420	2	T	911	ZS	Security Door Switch	Intruder Security System	17701-A	I110	-	ILD-16	T14.01	CON
421	2	T	912	ZS	Security Motion Detector	Intruder Security System	17701-A	I109	-	ILD-16	T14.02	CON
422	2	T	913	ZS	Security Door Switch	Intruder Security System	17701-A	I110	-	ILD-16	T14.02	CON
423	2	T	914	ZS	Security Motion Detector	Intruder Security System	17701-A	I109	-	ILD-16	TE1.03	CON
424	2	T	915	ZS	Security Door Switch	Intruder Security System	17701-A	I110	-	ILD-16	TE1.03	CON