

Table of Contents

Section 1	Bill of Materials
Section 2	Orenco Buildings
2.1	<i>Compressor Building 1</i>
2.2	<i>Park 2022 Chlorine Building 1</i>
2.3	<i>Park 2024 Chlorine Building 1</i>
Section 3	FCBS Control Panel
Section 4	Tidal Wave Mixer
Section 5	Depolox 400 M Analyzer
Section 6	Chemical Feed Skids
6.1	<i>D&H Skid Brochure</i>
6.2	<i>Skid Drawings</i>
6.3	<i>Skid Components</i>
Section 7	Sample Return System
7.1	<i>SRS Drawing</i>
7.2	<i>SRS Components</i>
Section 8	Chemical Storage Tanks
8.1	<i>Tank Drawings</i>
8.2	<i>Tank Brochure</i>
Section 9	Radar Level Sensor
Section 10	Tankless Water Heater
Section 11	Emergency Eyewash & Shower

Section 12 Static Flow Mixer

12.1 Mixer Drawing

12.2 Injection Quill

Section 1

Bill of Materials

1. Compressor Building

1.1 Orenco Fiberglass Shelter

Quantity	MFG Part Number	Description
1	Compressor Building 1	Orenco Fiberglass Shelter

2. FCBS (Reservoir Site)

2.1 Orenco Building

Quantity	MFG Part Number	Description
1	Park 2022 Chlorine Building 1	Orenco Fiberglass Shelter

2.2 FCBS Control Panel

Quantity	MFG Part Number	Description
1	FP-1S-P1	FCBS Control Panel

2.3 TWM Mixer

Quantity	MFG Part Number	Description
1	TWM15-230-33-V4050-3	TWM Mixer w/NEMA 4

2.4 Depolox 400 M Analyzer

Quantity	MFG Part Number	Description
1	W3T441932	E02 MODULE ELECTRONIC 400 M
1	W3T440611	FLOW CELL MODULE VARIASENS
1	W3T441936	E02 Sensor MEASURING MODULE - FC2
1	W3T441938	E02 Sensor MEASURING MODULE - PH
1	W3T391868	ORP MEASUREMENT MODULE

2.5 Chemical Feed Skid

Quantity	MFG Part Number	Description
1	DFXAUS0530SPTLQ100UDC130EN	Metering Pump
7	50021-005 (VIT)	1/2" PVC Type 546 TU Ball Valve
1	PRM2050-P-S	Pressure Relief Valve
1	CC1000-S-S	Calibration Column
1	CKM050VS-PV	Check Valve
1	FI-100-8SV	Flow Indicator
1	TG-25ST100SS-PVC	Pressure Gauge
1	TG-55STB424B100-PVC	Pressure Switch
1	Big Wave Junction Box (Single)	Big Wave Junction Box

2.6 Venturi Sample Recovery

Quantity	MFG Part Number	Description
1	JP13-03-137	Grundfos Sample Pump
1	MAZZ 0484-X PVDF	Mazzei Injector
1	51091G-007	3/4" Check Valve
1	50611-005	1/2" Ball Valve
3	50611-007	3/4" Ball Valve
1	YS075-P-S	Wye Strainer
1	53161-005	Needle Valve

2.7 Chemical Storage Tank

Quantity	MFG Part Number	Description
2	IMT0120X19/X19	120 GAL TANK
2	MK07	7" MANWAY
2	BHPVV200	2" BULKHEAD FOR LEVEL SENSOR
2	BHPVV075	3/4" BULKHEAD CONNECTOIN FOR PUMP SUCTION
2	UVAV8400	4" PVC SCH 80 U-VENT ASSY/VITON

2.8 ProMinent Radar Level Sensor

Quantity	MFG Part Number	Description
2	DULCOLEVEL	Liquid Level Radar Sensor

2.9 Water Heater

Quantity	MFG Part Number	Description
1	AP054480 EFD (EEMAX)	Tankless Electric Water Heater

2.10 Emergency Eyewash & Shower

Quantity	MFG Part Number	Description
1	GFR1902 (GUARDIAN)	Freeze-Resistant Safety Station

3. FCBS (Well Site)

3.1 Orenco Fiberglass Shelter

Quantity	MFG Part Number	Description
1	Park 2024 Chlorine Building 1	Orenco Fiberglass Shelter

3.2 FCBS Control Panel

Quantity	MFG Part Number	Description
1	FP-1S-P1	FCBS Control Panel

3.3 Analyzer

Quantity	MFG Part Number	Description
1	W3T441932	E02 MODULE ELECTRONIC 400 M
1	W3T440611	FLOW CELL MODULE VARIASENS
1	W3T441936	E02 Sensor MEASURING MODULE - FC2
1	W3T441938	E02 Sensor MEASURING MODULE - PH
1	W3T391868	ORP MEASUREMENT MODULE

3.4 Chemical Feed Skid

Quantity	MFG Part Number	Description
1	GMXA1602PVE2Q00UDC0300EN	Gamma X Diaphragm Pump
7	50021-005 (VIT)	1/2" PVC Type 546 TU Ball Valve
1	PRM2050-P-S	Pressure Relief Valve
1	CC1000-S-S	Calibration Column
1	CKM050VS-PV	Check Valve
1	FI-100-8SV	Flow Indicator
1	TG-25ST100SS-PVC	Pressure Gauge
1	TG-55STB424B100-PVC	Pressure Switch
1	BPM050-P-S	Back Pressure Valve
1	PD0012PH01S	Pulsation Dampener
1	Big Wave Junction Box (Single)	Big Wave Junction Box

3.5 Venturi Sample Recovery

Quantity	MFG Part Number	Description
1	ICT0040X19	40 GAL TANK
1	Smart Trak AX23	Flow Line Level Sensor
1	JP13-03-137	Grundfos Sample Pump
1	MAZZ 0484-X PVDF	Mazzei Injector
2	839-101	3/4" X 1/2" MPT x FPT Reducer Bushings
1	51091G-007	3/4" Check Valve
1	50611-005	1/2" Ball Valve
3	50611-007	3/4" Ball Valve
2	3857S-805	1/2" Unions (PVC, EPDM)
1	YS075-P-S	Wye Strainer
1	53161-005	Needle Valve

3.6 Sodium Hypo Tank

Quantity	MFG Part Number	Description
1	IMT0250X19/X19	250 GAL TANK
1	MK07	7" MANWAY
1	BHPVV200	2" BULKHEAD FOR LEVEL SENSOR
1	BHPVV075	3/4" BULKHEAD CONNECTION FOR PUMP SUCTION
1	UVAV8400	4" PVC SCH 80 U-VENT ASSY/VITON
1	DWTDMV100	1" DOUBLE MALE OUTLET

3.7 Prominent Radar Level Sensor

Quantity	MFG Part Number	Description
1	DULCOLEVEL	Liquid Level Radar Sensor

3.8 Water Heater

Quantity	MFG Part Number	Description
1	AP054480 EFD (EEMAX)	Tankless Electric Water Heater

3.9 Emergency Eyewash & Shower

Quantity	MFG Part Number	Description
1	GFR1902 (GUARDIAN)	Freeze-Resistant Safety Station

3.10 Static Flow Mixer

Quantity	MFG Part Number	Description
1	8-10S-3-3-7.I(.50)	8" KOFLO Static Mixer
1	QR-.5S-.5PV-4.5	KOFLO Injection Quill