

PSC 2019/007: EWS PREFERRED EQUIPMENT LIST

DATE: 05 December 2023

REV NO. 00

Revision Description:

Rev00 - Issued for Concept Design

1.0 PREFERRED EQUIPMENT – INSTRUMENTATION AND INDUSTRIAL NETWORKS		
No.	Equipment Type	Equipment Brand
1.1	Power supply	Siemens / SITOP series
1.2	Relays	Omron, ABB
1.3	Terminal relays	Weidmuller , Klippon
1.4	Terminals	Klippon, Weidmuller, Phoenix
1.5	Cable glands	Pratley Envirogland
1.6	Junction box	York enclosures, CCG
1.7	Ultrasonic level meter	Siemens
1.8	Ultrasonic Flow Meter (OCM)	Siemens
1.9	Area Velocity Flow Meter (OCM)	Pulsar
1.10	Radar level meter	VEGA
1.11	electromagnetic flow meter	Krohne, Siemens, Flowmetrix Safmag
1.12	Other flow meters (Ultrasonic- Clamp)	Krohne,
1.13	Coriolis Flowmeter	Krohne,
1.14	Flow switches (LED Indicators)	EGE, IFM
1.15	Pressure Transmitter (Gauge & Differential Pressure)	Siemens, VEGA, Rosemount
1.16	Orifice Flow Element	Siemens, EPC, Emerson
1.17	Chlorine gas leak detectors	Siemens, Grundfos
1.18	Residual chlorine meter	Siemens, Grundfos
1.19	Dissolved oxygen meter	Hach LDO type,

1.0 PREFERRED EQUIPMENT – INSTRUMENTATION AND INDUSTRIAL NETWORKS		
No.	Equipment Type	Equipment Brand
1.20	Turbidity meter	Hach, Endress & Hauser
1.21	Temperature measurement	Wika, Siemens
1.22	Pressure gauges	Wika
1.23	Air flow meters-Thermal resistance type	Endress & Hauser
1.24	Proximity switch	efector (Shorrock Automation), IFM
1.25	Limit Switches	Omron, Cutler and Hammer
1.26	Solenoid operated valves- Stainless Steel	Bürkert , Asco
1.27	Pneumatic actuators	EI-O-Matic, Festo
1.28	Electrical Valve actuators (Modbus TCP)	Auma , Rotork
1.29	Surge Protection	Surgetek: Signals : BCT BE24 Line: DEHNguard 275 Neutral: DEHNgap B Mains: DehnVentil 255
1.30	UPS (30 Min)	APC , Eaton,
1.31	SCADA	Aveva Plant SCADA (Citect) & GeoSCADA
1.32	PLC	Schneider Modicon M580 ePAC and M340
1.33	HMI	Schneider Magelis STU with 15” touch-screen or the latest
1.34	Industrial Ethernet network switch	Managed / Unmanaged –Hirschmann

2.0 PREFERRED EQUIPMENT – MECHANICAL		
No.	Equipment Type	Equipment Brand
2.1	Screenings washer/compactor	Huber / WAP/ S A M E
2.2	Grit washer/separator	Huber / Coanda
2.3	Variable speed (multi stage) pump system	Lowara / Hydrovar
2.4	Multiple bags in-line water filter	CWC
2.5	Mechanical Screens (Front Rake, Band Screen)	S A M E, Circuit, Huber, Meva
2.6	Digester heaters	Hydrotherm - Hamworthy water heaters
2.7	Submersible / Immersible pumps (sewage)	Grundfos, Xylem Flyt , KSB, Robot
2.8	Progressing cavity pumps	Netzch, Seepex, Mono, Orbit
2.9	Dry well self-priming centrifugal pumps (sewage)	Cornell, Gorman Rupp
2.10	Dry well centrifugal end suction pumps (sewage)	Cornell, KSB
2.11	Dry well centrifugal pumps (water)	Grundfos, Xylem Flyt , KSB
2.12	Macerator pumps	Vaughan, Tsurumi
2.13	Macerator/Grinders	JWC, Franklin Miller
2.14	Chemical dosing pumps	Grundfos
2.15	Sludge Screw Press	Huber / Rotamat
2.16	Filter Belt Press	Bellmer
2.17	Gravity Belt Thickener	Bellmer
2.18	Flame arrestors	Macroblaze,
2.19	Gas flare	Macroblaze
2.20	Vacuum/Pressure relief valves gas	Macroblaze
2.21	Cast Iron RS gate valves	Hawle, Ainsworth
2.22	Cast iron wedge gate valves	VOSA
2.23	Cast iron diaphragm valves	Saunders Type KB

2.0 PREFERRED EQUIPMENT – MECHANICAL		
No.	Equipment Type	Equipment Brand
2.24	Butterfly valves	Amri, JMC
2.25	Non return valves swing check with weighted lever.	VOSA
2.26	Knife gate valves	SKG, Insamcor
2.27	Air valves	Ventomat
2.28	Flow Control Valves	Bermad, Claval
2.29	Aerator gearboxes	Hansen
2.30	Other gearboxes	Hansen, Flender, Bauer
2.31	Blowers (Positive displacement)	Robuschi
2.32	Air compressors	Ingersoll Rand / Atlas Copco
2.33	Chlorination equipment	Grundfos
2.34	Flocculant preparation plant.	Prominent, Grundfos
2.35	Electrical hoists and travelling gantry	Morris, Demag
2.36	Industrial ventilation equipment	Luft, Donkin
2.37	Bearings	SKF, FAG

3.0 PREFERRED EQUIPMENT – ELECTRICAL		
No.	Equipment Type	Equipment Brand
3.1	Isolators	ABB Stromberg
3.2	Circuit Breakers	Merlin Gerin, ABB
3.3	Contactors, indication lamps	ABB, Telemecanique, Moeller
3.4	Emergency stop -lockout	Cutler Hammer
3.5	Relays, fuses, motor protection relay	Omron
3.6	Control switches, selector switches	Krause and Naimer, ABB, Telemecanique, Moeller
3.7	Electronic Motor Controller	ABB, Schneider, Siemens
3.8	Ammeter, voltmeter, current transformer, operations counter, hour meter.	Hartmann and Braun
3.9	Cables, Wire	Aberdare
3.10	Cable tray, cable ladder, trunking, rack.	Cabstrut, O-line
3.11	Soft Starters and Variable Speed Drives (Low Harmonic) MV&LV	WEG, ABB, Schneider, Siemens
3.12	Cable glands	Prately Envirogland
3.13	Terminals	Klippon Polyamide
3.14	HRC fuses and holders	G.E.C.
3.15	DC Power Supplies	Siemens SITOP series, ABB
3.16	Electrically operated solenoids	Festo, Asco, Burkert
3.17	PLC's	Modicon Quantum series
3.18	Level Control	Siemens Milltronics Multiranger MR200 DP 6R, Siemens stainless steel echo max transducer brackets SMS310.

3.0 PREFERRED EQUIPMENT – ELECTRICAL		
No.	Equipment Type	Equipment Brand
3.19	Surge Arrestors	Dehnguard 275 and 1 No. DehnGap
3.20	Power Montior	ABB, Schneider,Siemens
3.21	MV Switchgear	ABB, Schneider,Siemens
3.22	LV/MV Motors	ABB,,Siemens,Weg