

ID	AKZ	Description	Working Status	Plant Status	Fluid	Drawing/PID #24.57	Temperature [°C]	pH	Flow Range m³/h	Flow Rate m³/h	Wall Thickness [mm]	Diameter [mm]	Material	Dimensions w x h [cm]	Flange Specifications	LOSS	Action	Flow Meter				Transmitter [Racking and Covering]	JB [KKS]	Power Supply			Cabling				Comments		
																		Type	Unit	Output Signal	Accuracy [%]			Comment	Primary		Field/Signal		Type				
																									Distance [m]	Action	Distance [m]	Action					
1	20VB10F002	Raw water to Cooling System (North)		Existing	Raw Water		47058	1-25	6-8	0-10000	3000	8,5	1000	Carbon Steel	n/a	LOSS_Ultrasonic FM_001	Install new FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	20KP05	20KP05	New		5	New	30	Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
2	20VB10F006	CW to clarifier 46		Existing	Raw Water		47058	1-25	6-8	0-6000	3000	8,1	800	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing IMF Install new flow meter	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	20KP05	20KP05	New		3	New	15	Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
3	20VB30F002	CW to clarifier 47 & 48		Existing	Raw Water		47060	1-25	6-8	0-6000	3000	6,6	800	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing IMF and US Install new flow meter	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	20KP05	20KP05	New		3	New	200	Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
4	20VB20F006	Clarifier 47 outlet		Existing	Raw Water		47059	1-25	6-8	0-6000	3000	N/A	Open Stream	Cement	170 x 90	LOSS_OCFM_001	Remove existing FM Install new FM	OCFM	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	20KP05	20KP05	New		3	New		Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
5	20VB30F006	CW Clarifier 48 outlet		Existing	Raw Water		47060	1-25	6-8	0-6000	3000	N/A	Open Stream	Cement	170 x 90	LOSS_OCFM_001	Remove existing FM Install new FM	OCFM	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	20KP05	20KP05	New		3	New		Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
6	20VB30F008 [20UH11F001]	Sludge blowdown water to clar 47 & 48		Existing	Raw Water		47060	1-25	6-8	0-200	100	6	200	Carbon Steel	n/a	LOSS_Inline FM_001	Remove existing IMF Install new flow meter	In-line MF	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	20KP08	20KP08	New		3	New		Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
7	New	Clarifier 46 outlet [Cleaning of clarifier needs to be arranged]		New	Raw Water			1-25	6-8	0-6000	3000	N/A	Open Stream	Cement	170 x 90	LOSS_OCFM_002	Install new FM	OCFM	Instantaneous: m³/h Total: m³	4-20 mA	2,0	New racking and covering	20KP05	20KP05	New		3	New			4-core		
8	10VB10F002	Raw water to Cooling System (South)		Existing	Raw Water		47023	1-25	6-8	0-10000	3000	8,5	1200	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing IMF and US Install new flow meter	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP04	10KP04	New		3	New	80	Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
9	10VB30F002	CW to clarifier 159 and 158		Existing	Raw Water		47025	1-25	6-8	0-10000	3000	8,1	800	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing IMF and US Install new flow meter	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP05	10KP05	New		3	New	20	Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
10	10VB10F006	CW to clarifier 157		Existing	Raw Water		47023	1-25	6-8	0-6000	3000	8,5	1200	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing IMF and US Install new flow meter	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP06	10KP06	New		3	New	20	Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
11	10VB30F008	CW hot duct/sludge blowdown water	Not Working	Existing	Raw Water		47025	1-25	6-8	0-200	100	6,1	110	Carbon Steel	n/a	LOSS_Inline FM_001	Remove existing FM Install new FM	In-line MF	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP05	10KP05	New		3	New		Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
12	10VB50F003	Raw to clarifier 186 & 157		Existing	Raw Water		47027	1-25	6-8	0-1500	750	10	400	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing FM Install new FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP04	10KP04	New		3	New		Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
13	10VB40F001	Clarifier 156 and 157		Existing	Raw Water		47026	1-25	6-8	0-1500	750	6,6	300	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing FM Install new FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP04	10KP04	New		3	New		Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
14	10VB30F009	Effl to CCW Clar 159	Not Working	Existing	Raw Water		47025	1-25	6-8	0-500	370	6,6	250	Carbon Steel	n/a	LOSS_Ultrasonic FM_002	Remove existing FM Install new FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP05	10KP05	New		3	New		Remove installed conduit & cabling Use existing racking Install new conduit & cabling	4-core		
15	10UBS1F001	Demin Water to Storage Tank [verify FM, install additional FM outside WTP]	Working	New	Demin Water		47035	1-25		0-300	220	6,5	200	Carbon Steel	n/a	LOSS_Ultrasonic FM_003	Install additional FM [install on pipes outside WTP]	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	New racking and covering	10KP33	10KP33	New		3	New	10		4-core		
16	10UBS2F002	Demin Water to Storage Tank [verify FM, install additional FM outside WTP]	Working	New	Demin Water		47035	1-25		0-300	220	6,5	200	Carbon Steel	n/a	LOSS_Ultrasonic FM_003	Install additional FM [install on pipes outside WTP]	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	New racking and covering	10KP33	10KP33	New		3	New	10		4-core		
17	10UBS3F003	Demin Water to Storage Tank [verify FM, install additional FM outside WTP]	Working	New	Demin Water		47035	1-25		0-300	220	6,5	200	Carbon Steel	n/a	LOSS_Ultrasonic FM_003	Install additional FM [install on pipes outside WTP]	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	New racking and covering	10KP33	10KP33	New		3	New	10		4-core		
18	10UA20F001	Sand filter outlet [add additional US FM]	Working	New	Potable Water			1-25	6-9	0-500	370	6,6	200	Carbon Steel	n/a	LOSS_Ultrasonic FM_001a	Install additional FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP09	10KP09	New		3	New	15		4-core		
19	10UA20F002	Sand filter outlet [add additional US FM]	Working	New	Potable Water			1-25	6-9	0-600	440	6,6	200	Carbon Steel	n/a	LOSS_Ultrasonic FM_001a	Install additional FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP09	10KP09	New		3	New	15		4-core		
20	00UK20F001	Potable to workshop	Working	Existing	Potable Water		47313	1-25	6-9	0-300	100	6,6	300	Carbon Steel	n/a	LOSS_Ultrasonic FM_001a	Install additional FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP04	10KP04	New		3	New	100		4-core		
21	00UK20F002	Potable water to ringmain	Working	Existing	Potable Water		47313	1-25	6-9	0-300	100	6,5	200	Carbon Steel	n/a	LOSS_Ultrasonic FM_001a	Install additional FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP04	10KP04	New		3	New	100		4-core		
22	New	Potable to Single quarters	Not working	Existing	Potable Water		47313	1-25	6-9	0-300	100	4,5	150	Carbon Steel	n/a	Table 10/2, 10/3 BS4504	LOSS_DP_001	Remove existing FM and Orriface plate Install new FM and Orriface plate	DP	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering				5	New				Only local indication required	
23	00UK11F002	Potable water to Ikageng	Working	Existing	Potable Water		47313	1-25	6-9	0-300	100	4,5	150	Carbon Steel	n/a	Table 10/2, 10/3 BS4504	LOSS_DP_001	Remove existing FM and Orriface plate Install new FM and Orriface plate	DP	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering				3	New				Only local indication required	
24	00UK30F002	Potable water to Mine	Working	Existing	Potable Water		47313	1-25	6-9	0-600	250	4,7	300	Carbon Steel	n/a		LOSS_Ultrasonic FM_001a	Install additional FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP04	10KP04	New		3	New	100		4-core	
25	00UK40F001	Potable to fire	Working	Existing	Potable Water		47313	1-25	6-9	0-600	250	6,8	450	Carbon Steel	n/a		LOSS_Ultrasonic FM_001b	Install additional FM [install on pipes outside WTP]	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Install new racking & covering	10KP33	10KP33	New		3	New	100		4-core	
26	New	Potable to Compressors		New	Potable Water		47313	1-25	6-9	0-200	100	5,3	150	Carbon Steel	n/a		LOSS_Ultrasonic FM_001b	Install new FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	New racking and covering	10KP33	10KP33	New		3	New	100		4-core	
27	New	Potable to H2 plant		New	Potable Water		47313	1-25	6-9			4,7	150	Carbon Steel	n/a		LOSS_Ultrasonic FM_001b	Install new FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	New racking and covering	LV Room	LV Room	New		5	New				
28	New	Potable to Head Tank		New	Potable Water		47313	1-25	6-9	0-600	440	6,6	350	Carbon Steel	n/a		LOSS_Ultrasonic FM_001a	Install new FM	US	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Use Existing: Racking & Covering	10KP55	10KP55	New		3	New	20		4-core	
29	New	Inflow at Sewage Plant		Existing	Sewage							N/A	Open Stream	Cement	30 x 90	LOSS_OCFM_002	Install new FM	OCFM	Instantaneous: m³/h Total: m³	4-20 mA	2,0	New racking and covering				3	New				Only local indication required		
30	01WW100F001	Unit 1 CW to ashing		Existing	Raw Water (NO ASH CONTENT)		1744	1-25	6-8	0-22500		10	400	Carbon Steel	n/a	Flanges Table 16 BS4504 16 holes	LOSS_Inline FM_003	Install new FM	In-line MF	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Install new racking & covering				8	New				MF must have a ceramic lining: Only local indication	
31	01WW100F001	Unit 2 CW to Ashing		Existing	Raw Water (NO ASH CONTENT)		1744	1-25	6-8	0-22500		10	400	Carbon Steel	n/a	Flanges Table 16 BS4504 16 holes	LOSS_Inline FM_003	Install new FM	In-line MF	Instantaneous: m³/h Total: m³	4-20 mA	2,0	Install new racking & covering				8	New				MF must have a ceramic lining: Only local indication	
32	01WW																																