

Name: Eric B Status Date: 04 August 2020

ID	Name	Duration	Start	Finish	% compl	Notes				
PLC/S	PLC/SCADA programming - C14									
198	PLC/SCADA programming - C14	4.0d	18 June 2020	23 June 2020	0 %					
Commi	Commissioning - C14 Temperature indication									
210	Test I/O - C14 Temperature indication	1.0h	22 June 2020	22 June 2020	0 %					
212	Commission integrated system - C14 Temperature indication	1.0h	23 June 2020	23 June 2020	0 %					
211	PSSR authorisation - C14 Temperature indication	1.0h	22 June 2020	22 June 2020	0 %					
Commi	Commissioning - C35/SR1 Density indication F702									







ID	Name	Duration	Start	Finish	% compl	Notes
573	Check valve stroking - C35/SR1 Density indication F702	1.0h	15 June 2020	15 June 2020	0 %	
575	Commission integrated system - C35 /SR1 Density indication F702	2.0h	15 June 2020	15 June 2020	0 %	
572	Test control loops - C35/SR1 Density indication F702	2.0h	15 June 2020	15 June 2020	0 %	
574	PSSR authorisation - O5 Acid Scrubber pump/fill	1.0h	15 June 2020	15 June 2020	0 %	
Install	ation of sight glasses on train 3					
59	Install spools and sight glasses (3x3", 4x2") - sight glasses on train 3	3.0h	18 July 2020	18 July 2020	0 %	
60	PSSR authorisation - sight glasses on train 3	1.0h	18 July 2020	18 July 2020	0 %	







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ID	Name	Duration	Start	Finish	% compl	Notes				
61	Commission system - sight glasses on train 3	1.0h	18 July 2020	18 July 2020	0 %					
Electri	Electrical pre-work - C38 Water to snake and sump scrubbers									
600	Installation of Cabling - C38 Water to snake and sump scrubbers	10.0d	15 June 2020	26 June 2020	0 %					
599	Installation of Coated conduit - C38 Water to snake and sump scrubbers	4.0d	09 June 2020	12 June 2020	0 %					
Mecha	nical pre-work - O3 Garo pump/f	fill								
737	Install air supply piping - O3 Garo pump/fill	7.0d	03 June 2020	11 June 2020	0 %					
Electri	Electrical installation - C14 Temperature indication									
208	Route cable ends and terminate - Thermo couple - C14 Temperature indication	2.0h	22 June 2020	22 June 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
207	Install Thermo couple - C14 Temperature indication	1.0h	22 June 2020	22 June 2020	0 %					
PLC/SC	PLC/SCADA programming - U7									
1214	PLC/SCADA programming - U7	8.0d	21 July 2020	30 July 2020	0 %					
Civil pr	Civil pre-work - U7 Water treatment automation									
1197	Delivery of materials: Civils contractor - U7 Water treatment automation	5.0d	02 June 2020	08 June 2020	0 %					
1203	Concrete curing - U7 water treatment automation	15.0d	29 June 2020	20 July 2020	0 %					
1200	Concrete curing - U7 water treatment automation	4.0d	16 June 2020	19 June 2020	0 %					

Cast concrete pad - U7 water







ID	Name	Duration	Start	Finish	% compl	Notes			
1199	treatment automation	1.0d	15 June 2020	June 2020	0 %				
1202	Cast tank concrete plinths - U7 water treatment automation	1.0d	26 June 2020	26 June 2020	0 %				
1196	Concrete Contractor site establishment - U7 Water treatment automation	5.0d	26 May 2020	01 June 2020	0 %				
1201	Place formwork and fix rebar for tank - U7 water treatment automation	4.0d	22 June 2020	25 June 2020	0 %				
1198	Place formwork and fix rebar for pad - U7 water treatment automation	4.0d	09 June 2020	12 June 2020	0 %				
Install	Installation of solenoids sumps on train 1								
157	PSSR authorisation - sumps on train	1.0h	23 June 2020	24 June 2020	0 %				







ID	Name	Duration	Start	Finish		Notes
	Name	Duration	Start	- Fillisii	70 compi	Notes
155	Install nozzle and fit pH probe - sumps on train 1	3.0h	23 June 2020	23 June 2020	0 %	
158	Commission pH probe - sumps on train 1	1.0h	24 June 2020	24 June 2020	0 %	
156	Connect wiring - sumps on train 1	1.0h	23 June 2020	23 June 2020	0 %	
Installa	ation of solenoids sumps on train	3				
168	Connect wiring - sumps on train 3	1.0h	08 July 2020	08 July 2020	0 %	
170	Commission pH probe - sumps on train 3	1.0h	08 July 2020	08 July 2020	0 %	
167	Install nozzle and fit pH probe - sumps on train 3	3.0h	08 July 2020	08 July 2020	0 %	







ID	Name	Duration	Start	Finish	% compl	Notes				
169	PSSR authorisation - sumps on train 3	1.0h	08 July 2020	08 July 2020	0 %					
Mecha	Mechanical pre-work - C35/SR1 Density indication F702									
553	Install air supply piping - C35 Density indication F702	7.0d	19 May 2020	28 May 2020	0 %					
Installa	Installation of auto valves - O3 Garo pump/fill									
750	Install Auto Valves on GARO compressor 3	6.0h	13 July 2020	13 July 2020	0 %					
756	Install Auto Valves on GARO compressor 6	6.0h	06 August 2020	06 August 2020	0 %					
752	Install Auto Valves on GARO compressor 4	6.0h	21 July 2020	21 July 2020	0 %					
				29 July						







ID	Name	Duration	Start	Finish	% compl	Notes
754	Install Auto Valves on GARO compressor 5	6.0h	29 July 2020	2020	0 %	
758	Install Auto Valves on GARO compressor 7	6.0h	14 August 2020	14 August 2020	0 %	
748	Install Auto Valves on GARO compressor 2	6.0h	02 July 2020	02 July 2020	0 %	
746	Install Auto Valves on GARO compressor 1	6.0h	24 June 2020	24 June 2020	0 %	
Structu	ıral pre-work (building extension)	- U7 Water	· treatment auto	mation		
1206	Building erection by contractor - U7 Water treatment automation	6.0d	21 July 2020	28 July 2020	0 %	
1205	Contractor site establishment - U7 Water treatment automation	5.0d	30 June 2020	07 July 2020	0 %	

Building inspection and sign-off -





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ID	Name	Duration	Start	Finish	% compl	Notes				
1207	U7 Water treatment automation	1.0d	29 July 2020	July 2020	0 %					
Structi	Structural pre-work - U8 Plant steam balance									
1290	Fabricate pipe supports - U8 Plant steam balance	4.0d	27 July 2020	30 July 2020	0 %					
Install	Installation of sight glasses on train 2									
55	PSSR authorisation - sight glasses on train 2	1.0h	11 July 2020	11 July 2020	0 %					
56	Commission system - sight glasses on train 2	1.0h	11 July 2020	11 July 2020	0 %					
54	Install spools and sight glasses (3x3", 5x2") - sight glasses on train 2	3.0h	11 July 2020	11 July 2020	0 %					

#### Electrical installation - C38 Water to snake and sump scrubbers







ID	Name	Duration	Start	Finish	% compl	Notes
613	Route cable ends and terminate - Magmeter - C38 Water to snake and sump scrubbers	1.0h	01 July 2020	01 July 2020	0 %	
Installa	ation of repeater pole					
1570	Dig hole and plant pole for radio repeater	1.0d	08 July 2020	08 July 2020	0 %	
1571	Install radio repeater	1.0d	09 July 2020	09 July 2020	0 %	
Install	ation of Cabling - O5 Acid Scrubb	er pump/fil	1			
834	Installation of cabling scrubber D308 (B line) O5	6.0d	22 June 2020	29 June 2020	0 %	
839	Installation of cabling scrubber D307 (A line) O5	6.0d	04 August 2020	11 August 2020	0 %	
				24 July		







ID	Name	Duration	Start	Finish	% compl	Notes
837	Installation of cabling scrubber D2307 (D line) O5	6.0d	17 July 2020	2020	0 %	
835	Installation of cabling scrubber D2308 (E line) O5	6.0d	30 June 2020	08 July 2020	0 %	
838	Installation of cabling scrubber D2309 (C line) O5	6.0d	27 July 2020	03 August 2020	0 %	
836	Installation of cabling scrubber D5307 (F line) O5	6.0d	09 July 2020	16 July 2020	0 %	
Installa	ntion in MCC5GH					
1566	Install wireless system in MCC5GH	2.0d	13 July 2020	14 July 2020	0 %	
1567	Install wiring from wireless system to PLC cabinet	1.0d	15 July 2020	15 July 2020	0 %	

Install 4-20mA wiring to DCS







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ID	Name	Duration	Start	Finish	% compl	Notes			
1568	cabinet	1.0d	16 July 2020	July 2020	0 %				
Installation solenoid valves on scrubber D308 (B Line outage)									
858	Install solenoid valves (2) scrubber D308 - O5	4.0h	09 August 2020	09 August 2020	0 %				
859	Terminate electrical wiring scrubber D308 - O5	1.0h	09 August 2020	09 August 2020	0 %				
861	Commission integrated system scrubber D308 - O5	2.0h	09 August 2020	09 August 2020	0 %				
860	PSSR authorisation scrubber D308 - O5	1.0h	09 August 2020	09 August 2020	0 %				
Installa	ation of solenoids sumps on train 2	2							
164	Commission pH probe - sumps on train 2	1.0h	01 July 2020	01 July 2020	0 %				
	Install nozzle and fit pH probe -			01					

Install nozzle and fit pH probe -







ID	Name	Duration	Start	Finish	% compl	Notes
161	sumps on train 2	3.0h	01 July 2020	July 2020	0 %	
162	Connect wiring - sumps on train 2	1.0h	01 July 2020	01 July 2020	0 %	
163	PSSR authorisation - sumps on train 2	1.0h	01 July 2020	01 July 2020	0 %	
Electri	cal pre-work - C24 Dual pH mete	rs SO2 scru	bbers			
419	Installation of Coated conduit - C24 Dual pH meters SO2 scrubbers	3.0d	28 July 2020	30 July 2020	0 %	
420	Installation of Cabling - C24 Dual pH meters SO2 scrubbers	4.0d	31 July 2020	05 August 2020	0 %	
Movin	g of 2 Tanks F5522 and F5521					
1229	Install additional piping for water and floc addition - U7 Water treatment automation	7.0d	04 August 2020	12 August 2020	0 %	







ID	Name	Duration	Start	Finish (	% compl	Notes
1230	Install treated water line - U7 Water treatment automation	7.0d	13 August 2020	21 August 2020	0 %	
1227	Move tanks F5522 and F5521 to new building	2.0d	31 July 2020	03 August 2020	0 %	
1228	Install air supply piping - U7 Water treatment automation	3.0d	30 July 2020	03 August 2020	0 %	
Mecha	nical pre-work - C38 Water to sna	ike and sum	np scrubbers			
602	Fabricate spools for Magmeter - C38 Water to snake and sump scrubbers	7.0d	03 June 2020	11 June 2020	0 %	
PLC/S	CADA programming - C35/SR1					
555	PLC/SCADA programming - C35 /SR1	7.0d	05 June 2020	15 June 2020	0 %	
Structu	ıral pre-work - O3 Garo pump/fil	l				

Install supports for auto valves - O3







ID	Name	Duration	Start	Finish	% compl	Notes
735	Garo pump/fill	7.0d	27 May 2020	June 2020	0 %	
734	Fabricate supports for auto valves - O3 Garo pump/fill	6.0d	18 May 2020	26 May 2020	0 %	
Electric	cal work - U7 Water treatment au	ıtomation				
1237	Installation of Cabling - U7 Water treatment automation	10.0d	05 August 2020	18 August 2020	0 %	
1236	Installation of Coated conduit - U7 Water treatment automation	4.0d	30 July 2020	04 August 2020	0 %	
Mecha	nical installation - C38 Water to s	nake and su	ımp scrubbers			
615	Install Magmeter - C38 Water to snake and sump scrubbers	2.0h	01 July 2020	01 July 2020	0 %	
Commi	issioning - C38 Water to snake an	d sump scru	ıbbers			

PSSR authorisation - C38 Water to







ID	Name	Duration	Start		% compl	Notes
	A Valuation	2 <b>41 41</b> 1011	Sui v	<b></b>	/v compi	11000
618	snake and sump scrubbers	1.0h	01 July 2020	July 2020	0 %	
619	Commission integrated system - C38 Water to snake and sump scrubbers	1.0h	01 July 2020	01 July 2020	0 %	
617	Test circuits for Magmeter - C38 Water to snake and sump scrubbers	2.0h	01 July 2020	01 July 2020	0 %	
Installa	ation solenoid valves on scrubber	D2309 (C Li	ine outage)			
865	Terminate electrical wiring scrubber D2309 - O5	1.0h	14 August 2020	14 August 2020	0 %	
866	PSSR authorisation scrubber D2309 - O5	1.0h	14 August 2020	14 August 2020	0 %	
864	Install solenoid valves (2) scrubber D2309 - O5	4.0h	14 August 2020	14 August 2020	0 %	
867	Commission integrated system scrubber D2309 - O5	2.0h	14 August 2020	14 August 2020	0 %	







ID	Name	Duration	Start	Finish	% compl	Notes				
Electri	Electrical pre-work - C14 Temperature indication									
196	Installation of Cabling - C14 Temperature indication	5.0d	11 June 2020	17 June 2020	0 %					
195	Installation of Coated conduit - C14 Temperature indication	2.0d	09 June 2020	10 June 2020	0 %					
Density	y meter steelwork									
1212	Install support for density meter - U7 Water treatment automation	3.0d	22 July 2020	24 July 2020	0 %					
1211	Fabricate support for density meter - U7 Water treatment automation	4.0d	16 July 2020	21 July 2020	0 %					
PLC/S	CADA programming - C21									
371	PLC/SCADA programming - C21	4.0d	28 July 2020	31 July 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes
Electri	cal pre-work - U8 Plant steam bal	lance				
1287	Installation of Coated conduit - U8 Plant steam balance	10.0d	29 July 2020	11 August 2020	0 %	
1288	Installation of Cabling - U8 Plant steam balance	12.0d	12 August 2020	27 August 2020	0 %	
Electri	cal pre-work - C35/SR1 Density in	ndication F7	702			
548	Installation of Cabling - C35 Density indication F702	10.0d	26 May 2020	08 June 2020	0 %	
547	Installation of Coated conduit - C35 Density indication F702	4.0d	19 May 2020	22 May 2020	0 %	
Mecha	nical and Piping pre-work - U7 W	Vater treatm	ent automation			
1209	Install suction and delivery lines for pumps G5526 and G5527	2.0d	23 July 2020	24 July 2020	0 %	







ID	Name	Duration	Start	Finish	% compl	Notes
Shutdo	own duration					
1224	Commission pumps - U7 Water treatment automation	1.0h	30 July 2020	30 July 2020	0 %	
1223	Terminate electrical cables - U7 Water treatment automation	1.0h	29 July 2020	29 July 2020	0 %	
1220	FIRST Shutdown starts - U7 Water treatment automation	0.0d	29 July 2020	29 July 2020	0 %	
1222	Reconnect piping & tie in - U7 Water treatment automation	2.0h	29 July 2020	29 July 2020	0 %	
1221	Remove two pumps at G5526 and G5527 and re-install at F3521 and F3522: U7 Water treatment automation	4.0h	29 July 2020	29 July 2020	0 %	

#### Electrical pre-work - O3 Garo pump/fill







ID	Name	Duration	Start	Finish	% compl	Notes
732	Installation of Cabling - O3 Garo pump/fill	10.0d	02 June 2020	15 June 2020	0 %	
731	Installation of conduit racks and Coated conduit - O3 Garo pump/fill	4.0d	27 May 2020	01 June 2020	0 %	
Structu	ural pre-work - F920 Continuous	blending fro	om F-409			
1888	Fabricate support for new header - F920 Continuous blending from F-409	2.0d	17 August 2020	18 August 2020	0 %	
Electri	cal installation - C35/SR1 Density	indication 1	F702			
567	Route cable ends and terminate - Micromotion - C35/SR1 Density indication F702	1.0h	11 June 2020	11 June 2020	0 %	
566	Route cable ends and terminate - 2" butterfly valve with positioner - C35 /SR1 Density indication F702	1.0h	11 June 2020	11 June 2020	0 %	

#### PLC/SCADA programming - C11







ID	Name	Duration	Start	Finish	% compl	Notes
146	PLC/SCADA programming - C11	4.0d	09 June 2020	12 June 2020	0 %	

#### Mechanical pre-work - F241 Water purge for Multiverter radar

Install air supply and water supply piping - F241 Water purge for Multiverter radar  7.0d 18 August 2020 27 August 2020 0 %
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#### **Installation solenoid valves on scrubber D307 (A Line outage)**

854	PSSR authorisation scrubber D307 - O5	1.0h	16 August 2020 16 August 2020 0 %
855	Commission integrated system scrubber D307 - O5	2.0h	16 August 2020 16 August 2020 0 %
852	Install solenoid valves (2) scrubber D307 - O5	4.0h	16 August 2020 16 August 2020 0 %

#### PLC/SCADA programming - C24

07







ID	Name	Duration	Start		% compl	Notes
ID	Name	Duration	Start	FIIIISII	% compi	Notes
422	PLC/SCADA programming - C24	4.0d	04 August 2020	agust 202	0 %	
Mecha	nical pre-work - U8 Plant steam b	alance				
1292	Fabricate spools - U8 Plant steam balance	10.0d	29 July 2020	11 August 2020	0 %	
Structi	ural pre-work - C35/SR1 Density i	indication F	702			
550	Fabricate support for density meter - C35 Density indication F702	4.0d	18 May 2020	21 May 2020	0 %	
551	Install support for density meter - C35 Density indication F702	3.0d	22 May 2020	27 May 2020	0 %	
Installa	ation of sight glasses on train 1					
50	PSSR authorisation - sight glasses on train 1	1.0h	03 July 2020	03 July 2020	0 %	
	Commission system - sight glasses			04		







ID	Name	Duration	Start	Finish	% compl	Notes		
51	on train 1	1.0h	03 July 2020	July 2020	0 %			
49	Install spools and sight glasses (3x3", 4x2") - sight glasses on train 1	3.0h	03 July 2020	03 July 2020	0 %			
PLC/SCADA programming - O3								
739	PLC/SCADA programming - O3	51.0d	02 June 2020	11 August 2020	0 %			
PLC/SCADA programming - O5								
843	PLC/SCADA programming - O5	27.0d	30 June 2020	05 August 2020	0 %			
PLC/SCADA programming - U20								
1562	PLC/SCADA programming - U20	47.0d	22 June 2020	25 August 2020	0 %			
Electrical pre-work - O5 Acid Scrubber pump/fill								







ID	Name	Duration	Start	Finish	% compl	Notes			
832	Installation of Coated conduit - O5 Acid Scrubber pump/fill	16.0d	16 June 2020	08 July 2020	0 %				
Electri	Electrical pre-work - Chlorinator sump level blow downs								
143	Installation of Coated conduit - Chlorinator sump level blow downs	4.0d	19 May 2020	22 May 2020	0 %				
144	Installation of Cabling - Chlorinator sump level blow downs	10.0d	26 May 2020	08 June 2020	0 %				
Electri	Electrical pre-work - C21 Dual pH meters SR scrubber								
369	Installation of Cabling - C21 Dual pH meters SR scrubber	4.0d	24 July 2020	29 July 2020	0 %				
368	Installation of Coated conduit - C21 Dual pH meters SR scrubber	3.0d	21 July 2020	23 July 2020	0 %				
PLC/S	CADA programming - U9								

#### PLC/SCADA programming - U9







ID	Name	Duration	Start	Finish	% compl	Notes		
1449	PLC/SCADA programming - U9	12.0d	10 August 2020	25 August 2020	0 %			
Mechai	nical pre-work							
841	Installation of 3x junction boxes - O5 Acid Scrubber pump/fill	3.0d	09 June 2020	11 June 2020	0 %			
Installation of Nalco skid								
1232	Install Nalco skid	3.0d	04 August 2020	06 August 2020	0 %			
1233	Connect piping Nalco skid	2.0d	07 August 2020	10 August 2020	0 %			
Mechanical installation - C35/SR1 Density indication F702								
569	Install 2" butterfly valve with positioner & connect air piping - C35/SR1 Density indication F702	3.0h	11 June 2020	11 June 2020	0 %			

Install Micromotion - C35/SR1







ID	Name	Duration	Start	Finish	% compl	Notes			
570	Density indication F702	4.0h	11 June 2020	June 2020	0 %				
Mechan	Mechanical pre-work - C9 Vent for AlCl3 System								
104	Install junction boxes (3)	2.0d	17 August 2020	18 August 2020	0 %				
Mechan	Mechanical pre-work - C8 Sight flow indicators on condensate drains								
40	Fabricate spools - C8 Sight flow indicators on condensate drains	7.0d	16 June 2020	24 June 2020	0 %				



