

Name: Eric B Status Date: 30 July 2020

ID	Name	Duration	Start	Finish	% compl	Notes				
Commi	Commissioning - C35/SR1 Density indication F702									
573	Check valve stroking - C35/SR1 Density indication F702	1.0h	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 %					
575	Commission integrated system - C35 /SR1 Density indication F702	2.0h	15 June 2020	15 June 2020	0 %					
Density	Density meter steelwork									
1212	Install support for density meter - U7 Water treatment automation	3.0d	22 July 2020	24 July 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
1211	Fabricate support for density meter - U7 Water treatment automation	4.0d	16 July 2020	21 July 2020	0 %					
Moving	Moving of 2 Tanks F5522 and F5521									
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 %					
1229	Install additional piping for water and floc addition - U7 Water treatment automation	7.0d	04 August 2020	12 August 2020	0 %					
Mecha	Mechanical pre-work - O3 Garo pump/fill									
737	Install air supply piping - O3 Garo pump/fill	7.0d	03 June 2020	11 June 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
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 %					
Civil p	re-work - U7 Water treatment aut	omation								
1199	Cast concrete pad - U7 water treatment automation	1.0d	15 June 2020	15 June 2020	0 %					
1197	Delivery of materials: Civils contractor - U7 Water treatment automation	5.0d	02 June 2020	08 June 2020	0 %					
1198	Place formwork and fix rebar for pad - U7 water treatment automation	4.0d	09 June 2020	12 June 2020	0 %					
1203	Concrete curing - U7 water treatment automation	15.0d	29 June 2020	20 July 2020	0 %					
	Place formwork and fix rebar for			25						







ID	Name	Duration	Start	Finish	% compl	Notes
1201	tank - U7 water treatment automation	4.0d	22 June 2020	June 2020	0 %	
1202	Cast tank concrete plinths - U7 water treatment automation	1.0d	26 June 2020	26 June 2020	0 %	
1200	Concrete curing - U7 water treatment automation	4.0d	16 June 2020	19 June 2020	0 %	
1196	Concrete Contractor site establishment - U7 Water treatment automation	5.0d	26 May 2020	01 June 2020	0 %	
Electri	cal pre-work - C38 Water to snak	e 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 %	







ID	Name	Duration	Start	Finish	% compl	Notes				
Electri	Electrical installation - C38 Water to snake and sump scrubbers									
613	Route cable ends and terminate - Magmeter - C38 Water to snake and sump scrubbers	1.0h	01 July 2020	01 July 2020	0 %					
Install	ation of solenoids sumps on train	1								
156	Connect wiring - sumps on train 1	1.0h	23 June 2020	23 June 2020	0 %					
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 %					
157	PSSR authorisation - sumps on train 1	1.0h	23 June 2020	24 June 2020	0 %					

Structural pre-work - C35/SR1 Density indication F702







	2020-03-19 1120	JZUDCI.	LACCUIIOII	Schedu		DILLIANN				
ID	Name	Duration	Start	Finish	% compl	Notes				
551	Install support for density meter - C35 Density indication F702	3.0d	22 May 2020	27 May 2020	0 %					
550	Fabricate support for density meter - C35 Density indication F702	4.0d	18 May 2020	21 May 2020	0 %					
Installa	Installation of Cabling - O5 Acid Scrubber pump/fill									
835	Installation of cabling scrubber D2308 (E line) O5	6.0d	30 June 2020	08 July 2020	0 %					
834	Installation of cabling scrubber D308 (B line) O5	6.0d	22 June 2020	29 June 2020	0 %					
838	Installation of cabling scrubber D2309 (C line) O5	6.0d	27 July 2020	03 August 2020	0 %					
837	Installation of cabling scrubber D2307 (D line) O5	6.0d	17 July 2020	24 July 2020	0 %					







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ID	Name	Duration	Start	Finish	% compl	Notes				
836	Installation of cabling scrubber D5307 (F line) O5	6.0d	09 July 2020	16 July 2020	0 %					
839	Installation of cabling scrubber D307 (A line) O5	6.0d	04 August 2020	11 August 2020	0 %					
Electric	Electrical work - U7 Water treatment automation									
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	snake and su	ımp scrubbers							
615	Install Magmeter - C38 Water to snake and sump scrubbers	2.0h	01 July 2020	01 July 2020	0 %					
Installa	Installation of auto valves - O3 Garo pump/fill									
	Install Auto Valves on GARO			29						







ID	Name	Duration	Start	Finish	% compl	Notes
754	compressor 5	6.0h	29 July 2020	July 2020	0 %	
752	Install Auto Valves on GARO compressor 4	6.0h	21 July 2020	21 July 2020	0 %	
746	Install Auto Valves on GARO compressor 1	6.0h	24 June 2020	24 June 2020	0 %	
756	Install Auto Valves on GARO compressor 6	6.0h	06 August 2020	06 August 2020	0 %	
748	Install Auto Valves on GARO compressor 2	6.0h	02 July 2020	02 July 2020	0 %	
750	Install Auto Valves on GARO compressor 3	6.0h	13 July 2020	13 July 2020	0 %	

Installation in MCC5GH

Install wiring from wireless system







Name	Duration	Start	Finish	% compl	Notes
to PLC cabinet	1.0d	15 July 2020	July 2020	0 %	
Install wireless system in MCC5GH	2.0d	13 July 2020	14 July 2020	0 %	
Install 4-20mA wiring to DCS cabinet	1.0d	16 July 2020	16 July 2020	0 %	
al installation - C35/SR1 Density	indication F	702			
Route cable ends and terminate - 2" butterfly valve with positioner - C35 /SR1 Density indication F702	1.0h	11 June 2020	11 June 2020	0 %	
Route cable ends and terminate - Micromotion - C35/SR1 Density indication F702	1.0h	11 June 2020	11 June 2020	0 %	
	Install wireless system in MCC5GH Install 4-20mA wiring to DCS cabinet al installation - C35/SR1 Density Route cable ends and terminate - 2" butterfly valve with positioner - C35/SR1 Density indication F702 Route cable ends and terminate - Micromotion - C35/SR1 Density	Install wireless system in MCC5GH 2.0d Install 4-20mA wiring to DCS cabinet 1.0d al installation - C35/SR1 Density indication F Route cable ends and terminate - 2" butterfly valve with positioner - C35 1.0h /SR1 Density indication F702 Route cable ends and terminate - Micromotion - C35/SR1 Density 1.0h	Install wireless system in MCC5GH 2.0d 13 July 2020 Install 4-20mA wiring to DCS cabinet 1.0d 16 July 2020 al installation - C35/SR1 Density indication F702 Route cable ends and terminate - 2" butterfly valve with positioner - C35 /SR1 Density indication F702 Route cable ends and terminate - Micromotion - C35/SR1 Density 1.0h 11 June 2020	Install wireless system in MCC5GH 2.0d 13 July 2020 Install 4-20mA wiring to DCS cabinet 1.0d 16 July 2020 Install 4-20mA wiring to DCS cabinet 1.0d 16 July 2020 Install 4-20mA wiring to DCS all installation - C35/SR1 Density indication F702 Route cable ends and terminate - 2" butterfly valve with positioner - C35 1.0h 11 June 2020 June /SR1 Density indication F702 Route cable ends and terminate - 11 Micromotion - C35/SR1 Density 1.0h 11 June 2020 June	Install wireless system in MCC5GH 2.0d 13 July 2020 July 2020 0 % Install 4-20mA wiring to DCS cabinet 1.0d 16 July 2020 16 July 2020 0 % al installation - C35/SR1 Density indication F702 Route cable ends and terminate - 2" butterfly valve with positioner - C35 1.0h 11 June 2020 11 June 0 % Route cable ends and terminate - Micromotion - C35/SR1 Density 1.0h 11 June 2020 June 0 %

Installation of sight glasses on train 1

04 July







ID	Name	Duration	Start	Finish	% compl	Notes
51	Commission system - sight glasses on train 1	1.0h	03 July 2020	2020	0 %	
50	PSSR authorisation - sight glasses on train 1	1.0h	03 July 2020	03 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 %	

Electrical pre-work - C35/SR1 Density indication F702

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 %	

PLC/SCADA programming - C11

12 June







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







ID	Name	Duration	Start		% compl	Notes				
Install	Installation solenoid valves on scrubber D308 (B Line outage)									
860	PSSR authorisation scrubber D308 - O5	1.0h	09 August 2020	09 August 2020	0 %					
858	Install solenoid valves (2) scrubber D308 - O5	4.0h	09 August 2020	09 August 2020	0 %					
861	Commission integrated system scrubber D308 - O5	2.0h	09 August 2020	09 August 2020	0 %					
859	Terminate electrical wiring scrubber D308 - O5	1.0h	09 August 2020	09 August 2020	0 %					
Electri	ical pre-work - C21 Dual pH meter	rs SR scrub	ber							
368	Installation of Coated conduit - C21 Dual pH meters SR scrubber	3.0d	21 July 2020	23 July 2020	0 %					
369	Installation of Cabling - C21 Dual pH meters SR scrubber	4.0d	24 July 2020	29 July 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
Install	Installation of sight glasses on train 2									
56	Commission system - sight glasses on train 2	1.0h	11 July 2020	11 July 2020	0 %					
55	PSSR authorisation - 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 %					
PLC/S	SCADA programming - U9									
1449	PLC/SCADA programming - U9	12.0d	10 August 2020	25 August 2020	0 %					
Electri	Electrical pre-work - C14 Temperature indication									
196	Installation of Cabling - C14 Temperature indication	5.0d	11 June 2020	17 June 2020	0 %					







ID	Name	Duration	Start		% compl	Notes				
195	Installation of Coated conduit - C14 Temperature indication	2.0d	09 June 2020	10 June 2020	0 %					
PLC/S	PLC/SCADA programming - C14									
198	PLC/SCADA programming - C14	4.0d	18 June 2020	23 June 2020	0 %					
Electri	Electrical pre-work - U8 Plant steam balance									
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 %					
Installa	ation of Nalco skid									
1233	Connect piping Nalco skid	2.0d	07 August 2020	10 August 2020	0 %					
				06						







ID	Name	Duration	Start	Finish	% compl	Notes				
1232	Install Nalco skid	3.0d	04 August 2020	august 202	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 %					
Structu	ıral pre-work (building extension)) - U7 Water	r treatment autor	nation						
1205	Contractor site establishment - U7 Water treatment automation	5.0d	30 June 2020	07 July 2020	0 %					
1206	Building erection by contractor - U7 Water treatment automation	6.0d	21 July 2020	28 July 2020	0 %					
1207	Building inspection and sign-off - U7 Water treatment automation	1.0d	29 July 2020	29 July 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
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 %					
207	Install Thermo couple - C14 Temperature indication	1.0h	22 June 2020	22 June 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 %					
163	PSSR authorisation - sumps on train 2	1.0h	01 July 2020	01 July 2020	0 %					
161	Install nozzle and fit pH probe - sumps on train 2	3.0h	01 July 2020	01 July 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
162	Connect wiring - sumps on train 2	1.0h	01 July 2020	July 2020	0 %					
PLC/S	PLC/SCADA programming - U7									
1214	PLC/SCADA programming - U7	8.0d	21 July 2020	30 July 2020	0 %					
Electric	Electrical pre-work - O5 Acid Scrubber pump/fill									
832	Installation of Coated conduit - O5 Acid Scrubber pump/fill	16.0d	16 June 2020	08 July 2020	0 %					
PLC/S	CADA programming - O5									
843	PLC/SCADA programming - O5	27.0d	30 June 2020	05 August 2020	0 %					
PLC/S	PLC/SCADA programming - U20									
1562	PLC/SCADA programming - U20	47.0d	22 June 2020	25 August 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
Comm	Commissioning - C14 Temperature indication									
211	PSSR authorisation - C14 Temperature indication	1.0h	22 June 2020	22 June 2020	0 %					
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 %					
Mecha	nnical pre-work - C8 Sight flow inc	dicators on c	ondensate drains	s						
40	Fabricate spools - C8 Sight flow indicators on condensate drains	7.0d	16 June 2020	24 June 2020	0 %					
Install	Installation of solenoids sumps on train 3									
169	PSSR authorisation - sumps on train 3	1.0h	08 July 2020	08 July 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes			
167	Install nozzle and fit pH probe - sumps on train 3	3.0h	08 July 2020	08 July 2020	0 %				
170	Commission pH probe - sumps on train 3	1.0h	08 July 2020	08 July 2020	0 %				
168	Connect wiring - sumps on train 3	1.0h	08 July 2020	08 July 2020	0 %				
Electric	cal pre-work - O3 Garo pump/fill								
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 %				
Electri	Electrical pre-work - C24 Dual pH meters SO2 scrubbers								

Installation of Cabling - C24 Dual

05







	2020-03-19 П20	JZUDCI	Execution	Schedu	le EDIT	DILEHANN				
ID	Name	Duration	Start	Finish	% compl	Notes				
420	pH meters SO2 scrubbers	4.0d	31 July 2020	august 202	0 %					
419	Installation of Coated conduit - C24 Dual pH meters SO2 scrubbers	3.0d	28 July 2020	30 July 2020	0 %					
Comm	Commissioning - C38 Water to snake and sump scrubbers									
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 %					
618	PSSR authorisation - C38 Water to snake and sump scrubbers	1.0h	01 July 2020	01 July 2020	0 %					
Mecha	Mechanical and Piping pre-work - U7 Water treatment 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				
Installa	Installation of repeater pole									
1571	Install radio repeater	1.0d	09 July 2020	09 July 2020	0 %					
1570	Dig hole and plant pole for radio repeater	1.0d	08 July 2020	08 July 2020	0 %					
PLC/SO	PLC/SCADA programming - O3									
739	PLC/SCADA programming - O3	51.0d	02 June 2020	11 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 %					
PLC/SO	PLC/SCADA programming - C21									







ID	Name	Duration	Start	Finish	% compl	Notes				
371	PLC/SCADA programming - C21	4.0d	28 July 2020	July 2020	0 %					
PLC/S	PLC/SCADA programming - C35/SR1									
555	PLC/SCADA programming - C35 /SR1	7.0d	05 June 2020	15 June 2020	0 %					
Structi	Structural pre-work - O3 Garo pump/fill									
735	Install supports for auto valves - O3 Garo pump/fill	7.0d	27 May 2020	04 June 2020	0 %					
734	Fabricate supports for auto valves - O3 Garo pump/fill	6.0d	18 May 2020	26 May 2020	0 %					
Mecha	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 %					







ID	Name	Duration	Start	Finish	% compl	Notes				
570	Install Micromotion - C35/SR1 Density indication F702	4.0h	11 June 2020	11 June 2020	0 %					
Structural pre-work - U8 Plant steam balance										
1290	Fabricate pipe supports - U8 Plant steam balance	4.0d	27 July 2020	30 July 2020	0 %					
PLC/S	PLC/SCADA programming - C24									
422	PLC/SCADA programming - C24	4.0d	04 August 2020	07 August 2020	0 %					
Installa	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 %					
61	Commission system - sight glasses on train 3	1.0h	18 July 2020	18 July 2020	0 %					







ID	Name	Duration	Start	Finish	% compl	Notes
60	PSSR authorisation - sight glasses on train 3	1.0h	18 July 2020	18 July 2020	0 %	
Mechanical pre-work - U8 Plant steam balance						
1292	Fabricate spools - U8 Plant steam balance	10.0d	29 July 2020	11 August 2020	0 %	
Mechanical pre-work - C38 Water to snake and sump scrubbers						
602	Fabricate spools for Magmeter - C38 Water to snake and sump scrubbers	7.0d	03 June 2020	11 June 2020	0 %	



