

Programme: 100m LNG Dual-fuelled Ro-Ro Passenger Ferry

Programme Director: [redacted]

Review Period: February 2020

<u>Name</u>	Job Title	<u>Signature</u>
[redacted	Programme Director	
[redacted]	Project Accountant	
[redacted	Planning and Controls Manager	



1a. SHE

[redacted]



	Title	Month Fig	ures	Cumulative (YTD)		
01	Total Man Hours	41908		41908		
02	Man Power	Direct	217	N.A.		
		In-Direct	102			
		Total	319			
03	RIDDORS	0		0		
04	Fatality Case (Fatal)	0		0		
05	Lost Working day Case (LWC)	0		0		
06	Medical Treatment Case (MTC)	1		1		
07	First Aid Case (FAC)	4		4		
08	Property Damage (PD)	0		0		
09	Near Miss (NM)	2		2		
10	Fire Incident (FI)	0		0		
11	Environmental Incident	0		0		
12	Total Number of Recorded Injuries (MTC+FAC)	5		5		
13	Total Number of Days Lost	0		0		
14	Total Recordable Incident Rate (TRIR) This Number Refers to RIDDOR Reportable Incidents Only	0		0		
15	·	0		0		
15	Lost Time Incident Rate (LTIR)	0		0		

Events (NM/MT/FA/PD ETC...)

- 1. Medical Treatment Operative was unable to remove a burr from finger which turned purulent. Referred on to hospital due to infection.
- 2. First Aid 1 burr in finger, 1 fall minor injury to elbow and knee, 1 cut to finger, 1 wound on hand dressed in First Aid Facility wound not work related.
- 3. Near Miss Confined space PAM alarm sounded, Top shed roller door blown in due to high winds. (both reports available)

		Other SHEQ Activities	
Description	This Month		Cumulative
Site Safety Inspection	4	West shed and module hall 802 Top Shed 801	4
Toolbox Talks	3	Green walkway Reporting of Near Misses and Hazard Spotting Smoking Policy	3
Policy/Paperwork Reviews	2	PPE on green walkway reviewed and changed to suit business needs PPE Policy written and passed on to D. Thomas for approval	2

SHEQ Initiatives

SHEQ Monthly Meeting held 30.01.20 – 42 Open issues on agenda to be actioned and closed out by next meeting. 10 issues closed out from previous meeting.



Action Number	Description	Owner	Date Raised	Required By	Forecast Date	RAG Status	Comments
MR 1.1						В	
						В	
						G	
						G	
						В	
						В	

2. Contract Summary



Customer	CMAL	Contract Start	Restart – 2 nd December
Agreed Contract value	Budget to completion - £110m	Contract Finish	801 October 2021 – 802 July 2022
Project Type	Design and Build	Forecast Finish	801 October 2021 – 802 July 2022
Project Director	[redacted	Contract Type	SG funded

Project Scope	Design, build and commission 2 off LNG dual fuel ferries. Including training and provision of spares and handbooks The scope of this project is to complete the design and build etc following the Receivership of 16 th August 2019
Significant Project Changes	None (in this phase)
Acceptance Criteria	As per the specification
Payment Terms	Currently – funding provided by the Scottish Government based upon FM(PG) cash flow forecast
Warranty	The warranty for both vessels is 12 months from delivery. No allowance has been made financially for either shipyard support or suppliers warranties that have lapsed during this period
Liquidated Damages	No allowance has been made for late delivery Performance penalty for weight – the maximum allowance of £250k per vessel has been made Performance penalty for speed - the maximum allowance of £250k per vessel has been made Performance penalty for fuel consumption – no allowance has been made
Special Conditions	



Success Criteria	Due	Enabler	Status	TL	Fut Tr
				G	\leftrightarrow
				G	\leftrightarrow
			60	А	\downarrow
				А	\leftrightarrow
				А	\leftrightarrow
		BE	4	А	\leftrightarrow
		10		G	\leftrightarrow
				А	\leftrightarrow
				G	\leftrightarrow
				А	\leftrightarrow



Successes	Opportunities
Work being performed on 801/802 through work packages Schedule to be baselined in next 2 weeks – including control account budgets Ireducted lease signed and planned transfer of equipment to start on 16 th March Agreement for [redacted] support as required CMAL progress meetings now re-commenced	Use of a 1 st fixing system — reduced have been tasked to recommend and option and to provide yard standards Use of MRP function in Factory Master for pipe procurement and installation
Failures	Threats
Risk reviews not yet recommenced	[redacted] commercial settlement will have an as yet unidentified impact to the material budget FM(PG) engineering resource to support reduced design reviews and information requirements is a critical concern Subcontract pipe manufacture timescales to allow for public procurement already put the programme under pressure Production resource to support the plan Cryogenic pipework will require re-routing – also lack of resource Lack of on torch fume extraction for aluminium delaying 801 bulkhead erection
Impact Statement / Help Needed	
Decision required on way forward for Engineering support	

5. Quality

[redacted]



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				Dece	mber				Jane	uary			Feb	ruary			Ma				A	ril			M	av	
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	Zone 1	C+P 34			Anti							C+P 39															
801	Zone 2			C+P 35	Con									C+P 40													
MOL	Zone 3				C+P 36			C+P 37						C+P 40													
	Zone 4									Hol	C+P38																
	Zone 1		C+P 01										C+P 05														
802	Zone 2				C+P3																						
002	Zone 3								C+P 4																		
	Zone 4										N/A																
																							Novemb				
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Survey No.: 5	Location: Berth	Date: 18/02/2020					
Unit / Part No.: Zone 1							

Inspected By: [redacted

Defects Found	Remedial Action Required	Date Remedial Action Completed	Initials
Engine Room Frm 30-bhd 39 open area at deck 3 major water ingress (Photo 1)	Remove water & cover if possible		
BHD 27-32 Port to stbd aft end major water ingress (Photo 2)	Remove water immediately		
Frm 28-29 Manhole open & full of water (Photo 3)	Remove water & cover manhole or fit safety ring		
Double bottoms full of rubbish (Photo 4)	Clean out double bottoms		
Generator Room Frm 24-27 open access causing water ingress port side (Photo 5)	Remove water & cover if possible		
BHD 27-32 Vent space below deck 3 L11 water ingress port & stbd	Remove water & cover from above		
Bilge full of water port & stbd side (Photo 6)	Remove water		
Manhole open port & sthd side (Photo 7)	Cover manhole or fit safety ring		

Additional Information

Additional Information
Engineers workshop in good condition - no defects found
Engine room & Generator room - Once water is removed give good clean out in all areas
BHD 27-32 Vent space below deck 3 L11 water ingress port & stbd is a priority as water is starting to
build up in main generator room

QC Name:	[redacted]	
QC Signature:		
Date:	18/02/2020	



Before





After



5. Quality

[redacted]



The grit blasting programme was started on both ships around the 21/09/2019 and below shows a schematic that clearly defines the yards approach to bringing the steel surface back to an acceptable level of tolerance to receive clients specified coating systems. Having the colour coding plan in place ensures everyone involved in the programme is kept up to date with the process taking into account different levels of preparation from blasting to mechanical preparation (power tools) depending on overall breakdown of the existing blast primer.



Secring Goar Se

Steering Gear Not Built

802 Blast & Prime Tracker





6. Traffic Light Report



		Overall	Status		Future	Return to Green		
Criteria	Feb 20	Mar 20	Apr 20	May 20	Trend	Date	Status	Comments
Overall Status	G				\leftrightarrow			
Safety	G							
Quality	G							
Customer Satisfaction	G				‡			
Schedule	G							
Finance	G				\leftrightarrow			
Technical	G				\leftrightarrow			
Subcontractor	G							
Resources	G				\Rightarrow			
Risk	G				\leftrightarrow			



Schedule

Milestone Completion					
	Planned	Actual	% Adherence		
Ship 1	4	4	100%		
Ship 2	1	1	100%		
Ship 3	1	1	100%		
Other	8	8	100%		
Total	14	14	100%		
Traffic Light	<90%	<100%	>=100%		

Key Performance Indicators					
	Planned	Actual	% Adherence		
Work Orders Closed	BEING DEVELOPED				
	Current	Previous	Prior		
Work Orders Outstanding	В	EING DEVELOPE	D		
Total					
Traffic Light					

Schedule Performance						
	Current	Previous	Prior			
SPI	0 98	0.75	0.88			
Schedule Variance	-£698,183	-£9,612,197	-£3,901,329			
% Complete						
Traffic Light	< 0.900	< 0.950	<1.00			

Supplier Delivery					
	Planned	Actual	% Adherence		
Group 1 Modkits	3	3	100%		
Group 1 Modkits	10	10	100%		
Group 1 Modkits	10	10	100%		
Cape	В	EING DEVELOPE	ED		
Material			0%		
Material Shortages	В	BEING DEVELOPED			
Traffic Light					

Resource Management				
	Planned	Actual	% Adherence	
CORE	3,069	2,403	78%	
PDS	985	352	36%	
PRE PLANN NG	2,586	2,726	105%	
DESIGN	1,025	590	58%	
REFIT 1,2 & 3	11,931	7,499	63%	
KSA OPS	56	0	0%	
TRAIN NG	142	156	110%	
Total	19,795	13,726	69%	
Traffic Light	+-20%	+-10%	+-5%	

Cost

Forecast Margin (£k)					
Original Forecast % Adherence					
Ship 1	£3,808	£3,737	98%		
Ship 2	£3,655	£3,056	84%		
Ship 3	£7,767	£7,473	96%		
Other	£1,769	£2,147	121%		
Total	£17,000	£16,413	97%		
Traffic Light	<80%	<90%	>=90%		

Sales & Cash						
Budget	Forecast	% Adherence				
£23,389	£21,205	91%				
£87,720	£78,215	800/				
	_					
<80%	Source	>=				
	Budget £23,389 £87,720	Budget Forecast £23,389 £21,205 £87,720 £78,215				

Cost Performan							
	Currept	vious	Prior				
CPI	0.9		1.00				
Cost Variance	06	-£3\ 19	-£54,007				
EAC	≥10. 1	102,	£102,514				
		'					
Traffic Light	300	< 0.950	<1.00				

್ರಿk Management						
	Current	Previous	Prior			
Total Risk value (£	£16,275	£16,275	£16,275			
Risk % of Phylant	15.9%	15.9%	15 9%			
Risk Plann	£1,144	£1,144	£1,144			
Risk Release Actual	£0	£0	£0			
Emergent Risk	£0	£0	£0			
Cost of Mitigation	£0	£0	£0			
Traffic Light						

Opportunity Management						
Current Previous Prior						
Total Opportunity Value (£)	£3,692	£3,692	£4,026			
Opportunity % of Budget	3.6%	3.6%	4.2%			
Opportunity Realised Planned	£0	£0	£0			
Opportunity Realised Actual	£0	£0	£0			
Cost of Speculation	£0	£0	£0			
Traffic Light						

Quality

Acceptance									
	Planned Actual Adhe								
Ship 1	5	5	100%						
Ship 2	5	5	100%						
Ship 3	5	5	100%						
Other	0	0	0%						
Total	15	15	100%						
Traffic Light	<90%	<95%	>=95%						

	Current	Previous	Prior
Ship 1	0.0%	0.0%	0.0%
Ship 2	0.0%	0.0%	0.0%
Ship 3	0.0%	0.0%	0.0%
Other	0.0%	0.0%	0.0%

Observation Status								
	Current	Previous	Prior					
Critical	0	0	0					
Significant	0	0	0					
Minor	0	0	0					
	0	0	0					
Total	0	0	0					
Traffic Light								

Change Management									
	Current Previous Prior								
Critical	0	0	0						
Non-Critical	0	0	0						
Customer Requested	0	0	0						
No. Stopping Work	0	0	0						
Total	0	0	0						
Traffic Light									

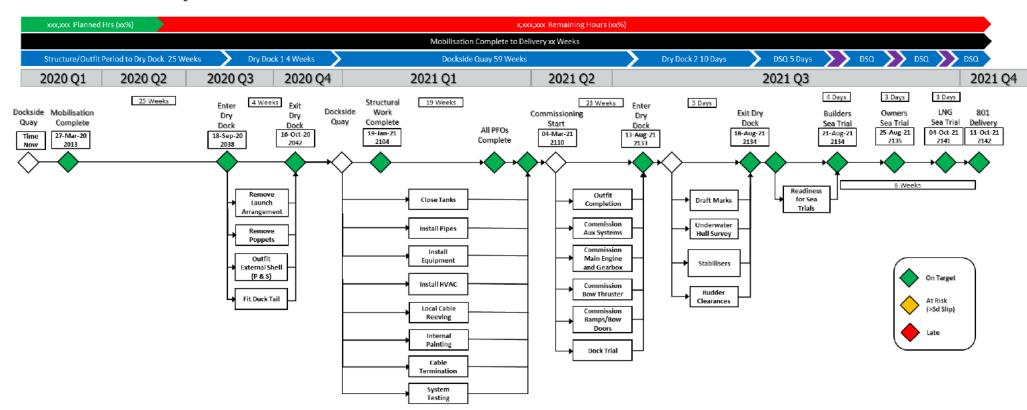
Material Quality									
	Current	Previous Prior							
BEING DEVELOPED									
Traffic Light									

8. Schedule Overview (1)

[redacted]



801 Timeline to Delivery

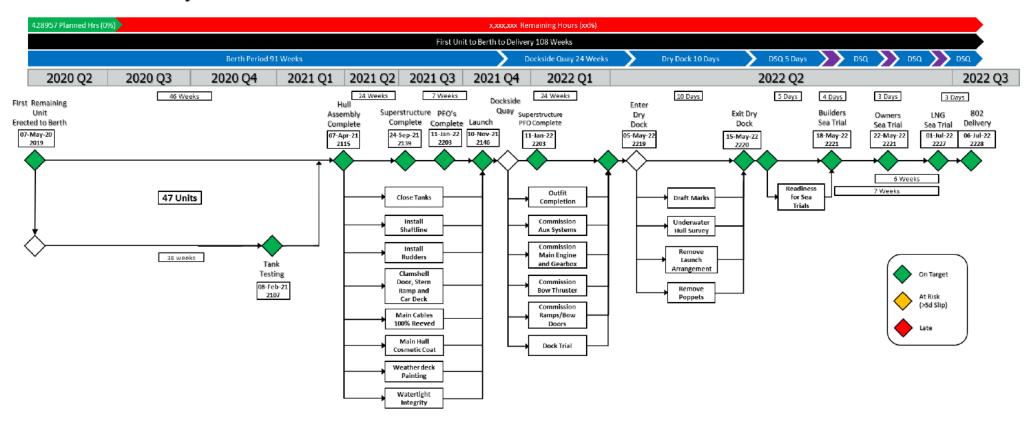


9. Schedule Overview (2)

[redacted]

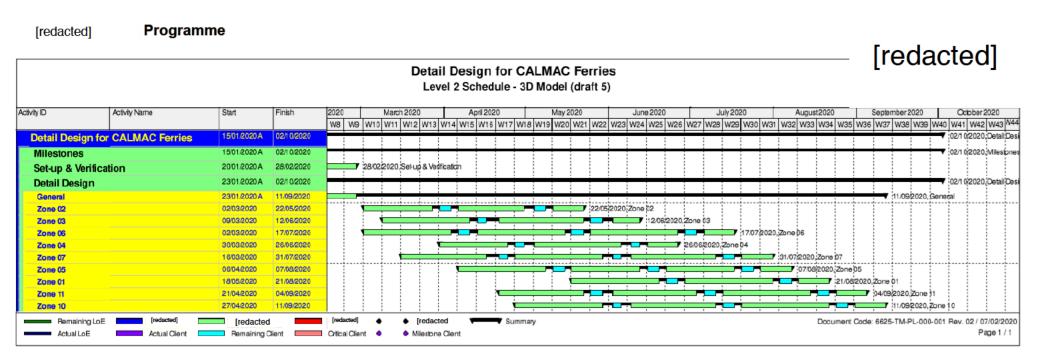


802 Timeline to Delivery



9. Schedule Overview (3)





9. Key Deliverables / Milestones Status FERGUSON marine

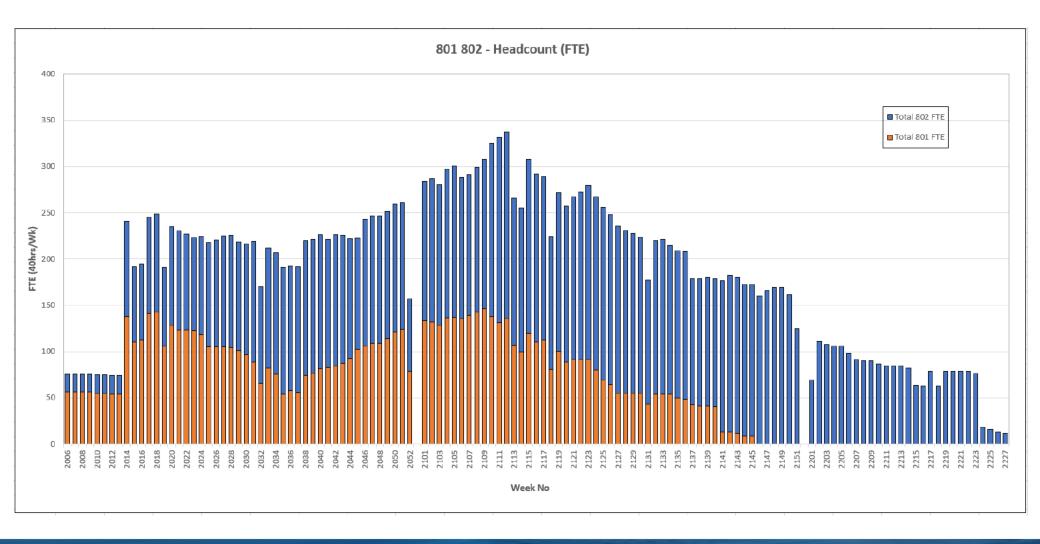


Programme Milestones										
ID	Team/Discipline	Milestone Description	Baseline Date	Forecast/ Achieved	Status					
			2020 Q1							
2020-01	FMPG	Agree Design Contract with [redacted]	February 20	February 20	Achieved - Contract Signed xx-Feb-20					
2020-02	FMPG	Agree 2 Ship Integrated Baseline Programme	March 20							
2020-03	[redacted]	Zones 2, 3, 4, 6 & 7 - Start 3D Modelling	March 20		Programme Commences 02-Mar-20					
2020-04		Zone 2 - Issue 3D Model for 60% Review	March 20							
2020-05	FMPG	Issue ITT for Pipe Manufacturing Contract	March 20		Outline ITT currently being produced					
			2020 Q2							
2020-06	[redacted]	Zone 2 - Issue 3D Model for 90% Review	April 20							
2020-07	Production	802 - Commence Fabrication of Remaining Units			Currently Reviewing Erection Sequence/Footprint Availability					
2020-08	Production	801 - Fwd Mooring Deck Structure Complete	April 20							
2020-09	[redacted]	Zones 5, 10 & 11- Start 3D Modelling	April 20							
2020-10		Zone 2 - Freeze 3D Model	May 20							
2020-11	Production	802 - 1st Unit Erected at Berth	May 20							
2020-12	[redacted]	Zones 1, & 8 - Start 3D Modelling	May 20							
2020-13		Zone 2 Engine Room Approved Pipe Drawings Issued	June 20							
2020-14	•	Zones 9 - Start 3D Modelling	June 20							

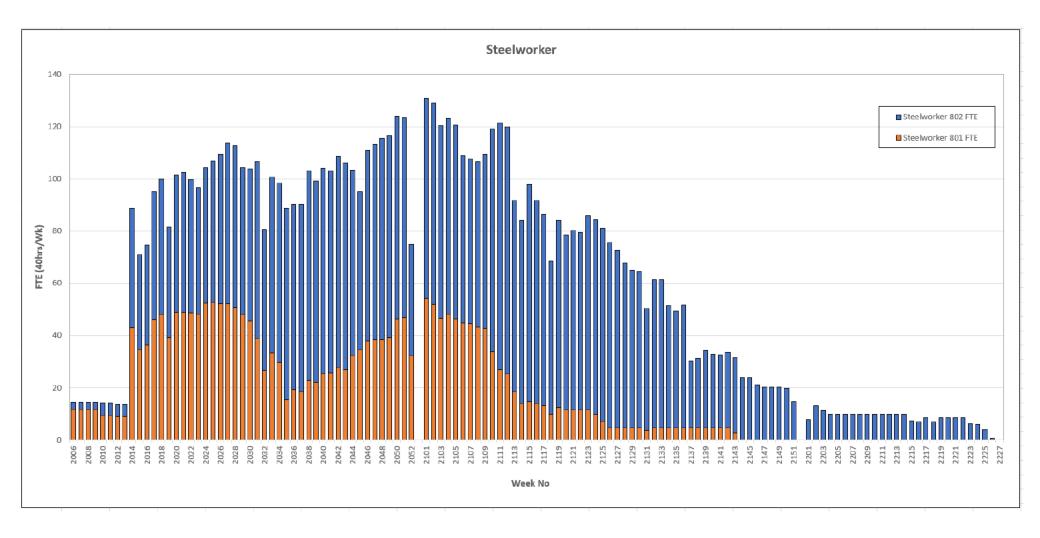


TO BE DEVELOPED

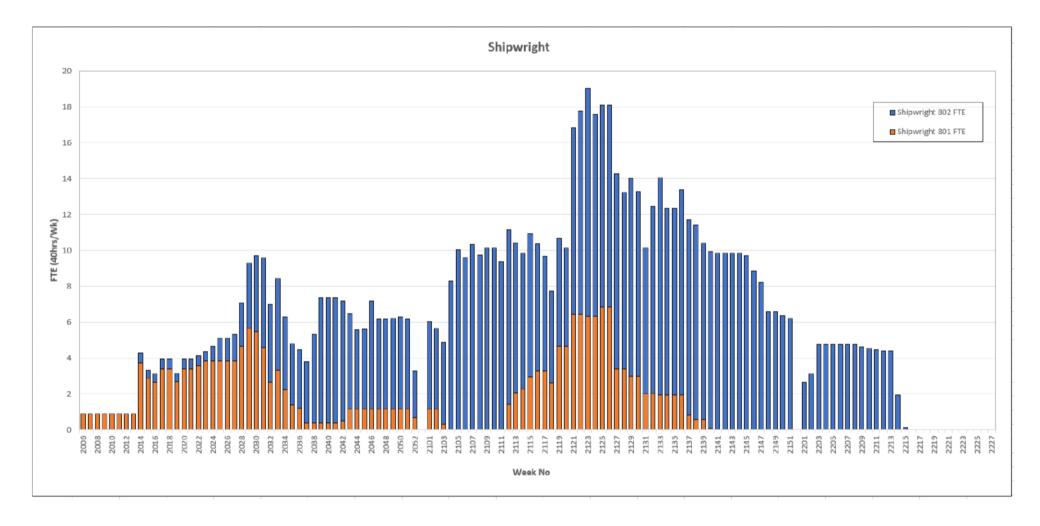




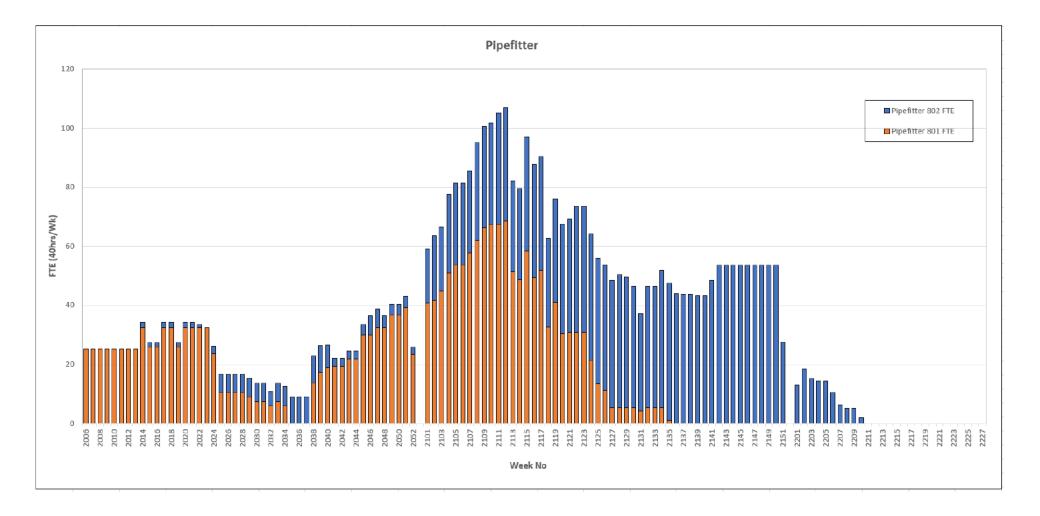




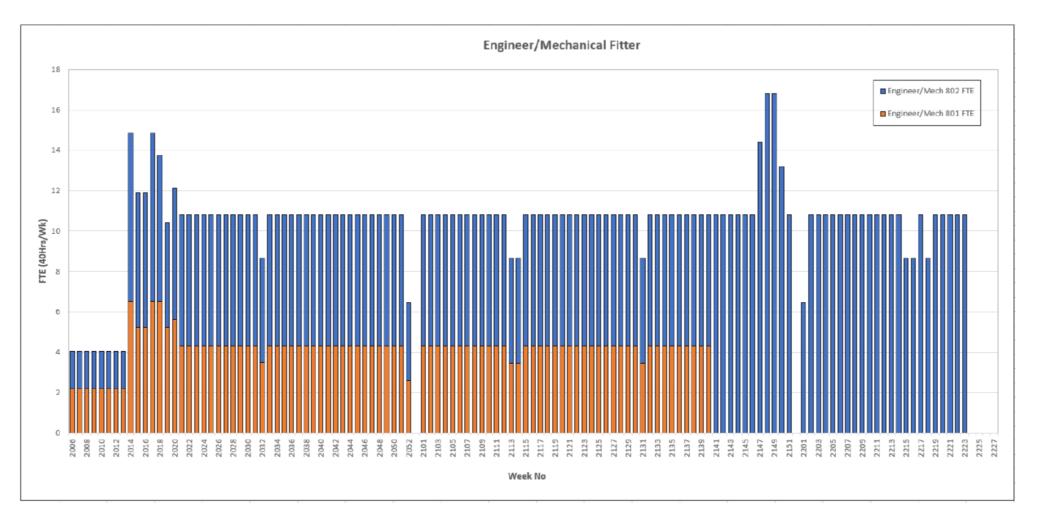




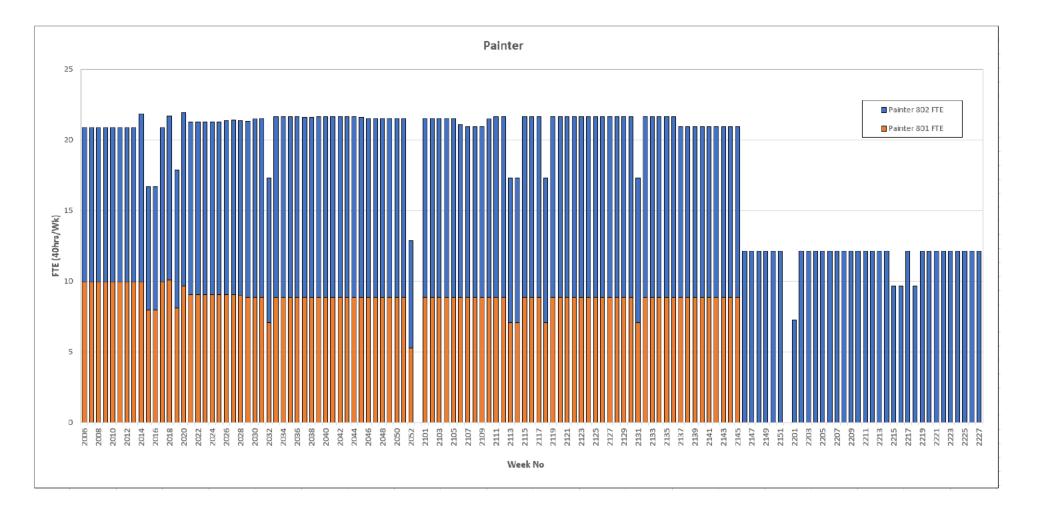




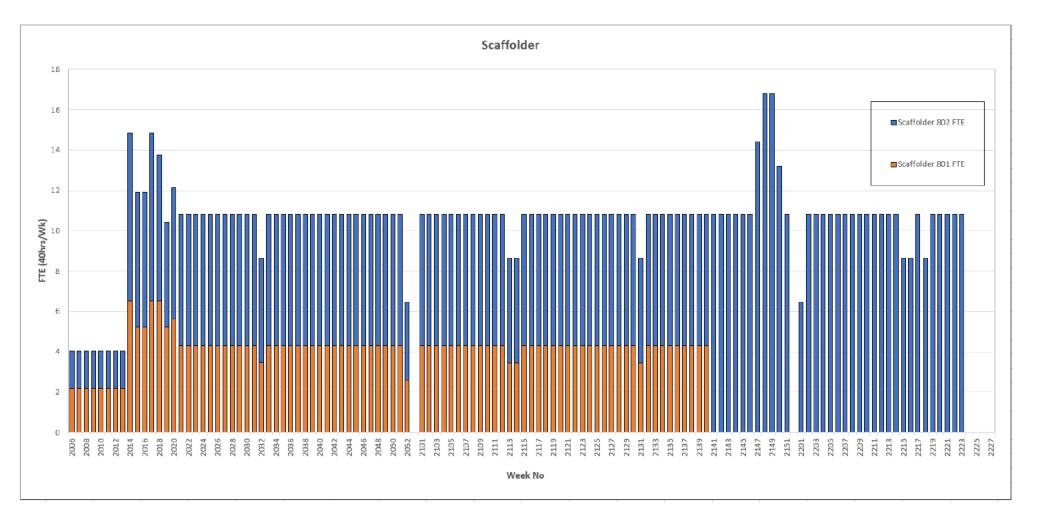














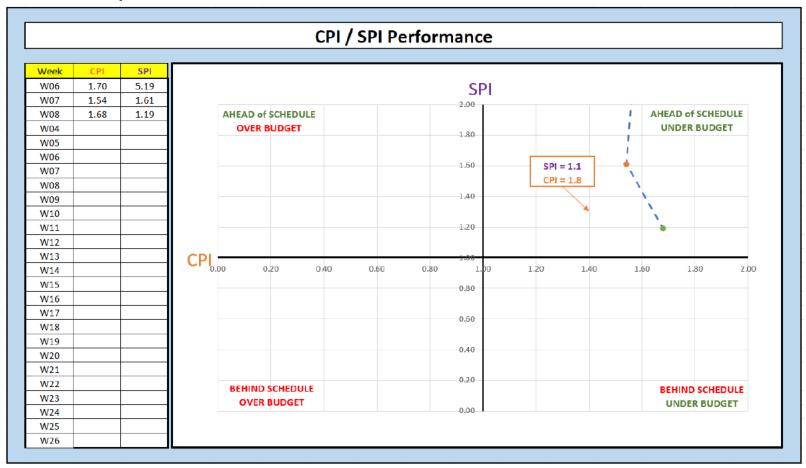


12. SPI & CPI Trends

[redacted]



Based on the 2020 Q1 Plan





To be developed



Risk Description	Controls in Place	Current Impact	Current Likelihood	Current Risk Score	Change to Risk Scoring	Action Planned	Target Impact	Target Likelihood	Target Risk Score	Change to Risk Scoring	Risk Contingency	Risk Owner	Date Last Updated	Date Last Reviewed
Workpackaging arrangements are not robust enough to control properly the work sequence and capturing performance	No workpackaging arrangement currently in place	50	5	250		Introduce a process for workpackaging Improve the organisation to deliver the new process	50	4	200		2,000k	[redacted		
Impact to the programme of the implementation of the Public Procurement process		50	5	250		increase procurement headcount Allow for time in the programme	50	4	200		100k 3 months programme	_		
Production resource labour rates are below industry sector and may require an increase to be competitive in attracting and retaining resource		50	5	250		review allowance against market rates Include allowance for ptential increase	50	4	200		1,500k	_		
Materials has been stored offsite at Westway in poor conditions and unmanned. The material condition and level of stock is uncertain and may result in material stock write downs		50	5	250		relocate all offiste materials to a new storage facility undertake a stock take improve store location capability	50	4	200		1,800k	_	30th Oct	
Unable to recruit or retain Production staff in the required numbers, with suitable qualifications and experience	Resource plans from revised programme, together with yard plan	50	5	250		develop the programme resource demand produce a yard resource plan showing all projects develop a resource supply strategy A. Assumes subcontract labour will be provided at same internal rate Extra supersion may be required	50	3	150		250k		Oct-19	
	Risks associated with late delivery are captured elsewhere in the risk register with planned controls.	50	5	250		Include a time allowance for programme slippage	50	3	150		3,500k 3 months delay	_	Sep-19	
	Risks associated with late launch are captured elsewhere in the risk register with planned controls.	50	5	250		Include time allowance for programme slippage (same as late de ivery)	50	3	150		Included in risk 38			Oct-19
commissioning phase	As part of the re-baselining, OOR's, 200 series drawings and other sources of information have been reviewed, costed and added to the programme. Future rework will be controlled by a more robust engineering change process	50	5	250		Completion of re-baseline evaluation Updated and improved change control process Allow additional time in the commissioning programme	25	5	125		1,000k		Sep-19	
phase as a result of being idle for a significant length of time	there is a limited equipment maintainance package for all equipment with the exception of anti condensation heating and main engine supplier maintenance	25	4	100		appoint a commissioning manager review maintenance requirements	25	4	100		100k			
The sign ficant number of pipes made but not fitted cannot be found or are obsolete. There is a lack of stock control with pipes located at various places in the yard	There are no controls currently for made and stored pipes	25	5	125		Audit of pipes underway and grouping by system Provide better storage location for pipes Review pipes dup icate pipes made against latest iso and scrap surplus Provide an allegarges for pipes to be provide.	24	4	100		175k	_	Oct-19	