

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

Programme Director: [redacted]

Review Period: February 2021

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



1a. SHE

Report Number: 10	Date: 02.02.21
Month: Jan 01	

1. Monthly Cumulative Safety Statistics

S/#	Title	This Month Figures		Cumulative
01	Total Man Hours (provided by Planning Department)		TBC	TBC
02	<u>Man Power</u> (provided by HR) This is core staff	Direct	TBC	
		In-Direct	TBC	
		Total	TBC	
03	RIDDORS	0		3
04	Fatality Case (Fatal)	0		0
05	Lost Working day Case (LWC)	0		3
06	Medical Treatment Case (MTC)	0		11
07	First Aid Case (FAC)	6		62
08	Property Damage (PD)	0		0
09	Near Miss (NM)	0		6
10	Fire Incident (FI)	0		2
11	Environmental Incident	0		1
12	Total Number of Recordable Injuries	0		20
13	Total Number of Days Lost			16

2. Description of Incident/Accident and Near Miss Reported This Month

Events (NM/MT/FA/PD ETC....)
1. RIDDOR. 0 incident.
2. Medical treatments 0 incidents
3. First Aid – 6 incidents – 1 electric shock incident, 1 foreign object in eye, 4 cut fingers.
4. Fire incident – Nothing reported. 27/7 fire watch patrols being maintained.
5. Environmental incident – no environmental incidents occurred in month of January.
6. Near Miss – None reported

3. Other SHEQ Activities

Description	This Month	
Site Safety Inspection	2	801 & 805 Walks include SMT member and Union Reps. Weekly review of site COVID-19 controls, via a formal meeting attended by representatives from SMT, Unions, HR and Operations.
Procedural Reviews	1	<ul style="list-style-type: none"> Permit to Work audit completed and more formal arrangements for capturing and reporting on permit activity. New Site Lifting rules require all lifts to be planned and undertaken through the Permit to Work process. Physical control measures for lifting being embedded. Refresher training being organized for those in control of lifts on site, using a specialist training provider. Induction presentation being evolved from a simple reference document to a more comprehensive PowerPoint presentation. Roll out planned for early March. Confined Space Procedure under review for rollout during Q1. COVID-19 Risk Assessment formally reviewed by Heads of Operations, HR and Operations. <u>Changes communicated</u> as part of operational briefings, to all personnel (including contractors) in early January.

4. SHEQ Initiatives

Description
H&S continue to identify, review and update safety controls, in order to de-risk the business and move towards a more positive safety culture across the site. The baseline reference for this is the findings from the gap analysis, undertaken end of Q4 2020
As part of the Permit to Work review, WORKSAFE Integrated Safe System of Work (ISSOW) is under consideration as a potential electronic replacement for the current paper-based format. Online demo completed early February with provider, <u>BehOnNeter</u> . Costs now under consideration.
Having agreed future H&S resourcing needs, recruitment of permanent senior safety manager now initiated.
Existing Mobile cranes on site are under review, to seek suitable replacements, for long-term needs of the site.
Monthly Safety Committee meetings to recommence in Q1. Initial discussions have taken place to agree optimum format for future meetings.
Reintroduction of the Take 5 process (dynamic risk assessment) is under consideration is efficient and effective at the actual location where the work in question is to be completed. Intention is to promote this via the new Site Induction Process and other communication routes.

2. Contract Summary

Customer	CMAL	Contract Start	Restart – 2 nd December 2019
Agreed Contract value	Budget to completion - £110m	Contract Finish	801 April 2022 – 802 Dec 2022
Project Type	Design and Build	Forecast Finish	801 April 2022 – 802 Dec 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 included, if the allowance is exceeded the buyer has a contractual right to terminate. Performance penalty for speed - the maximum allowance of £150k per vessel has been included, if the allowance is exceeded the buyer has a contractual right to terminate. Performance penalty for fuel consumption – no allowance has been made.
Special Conditions	

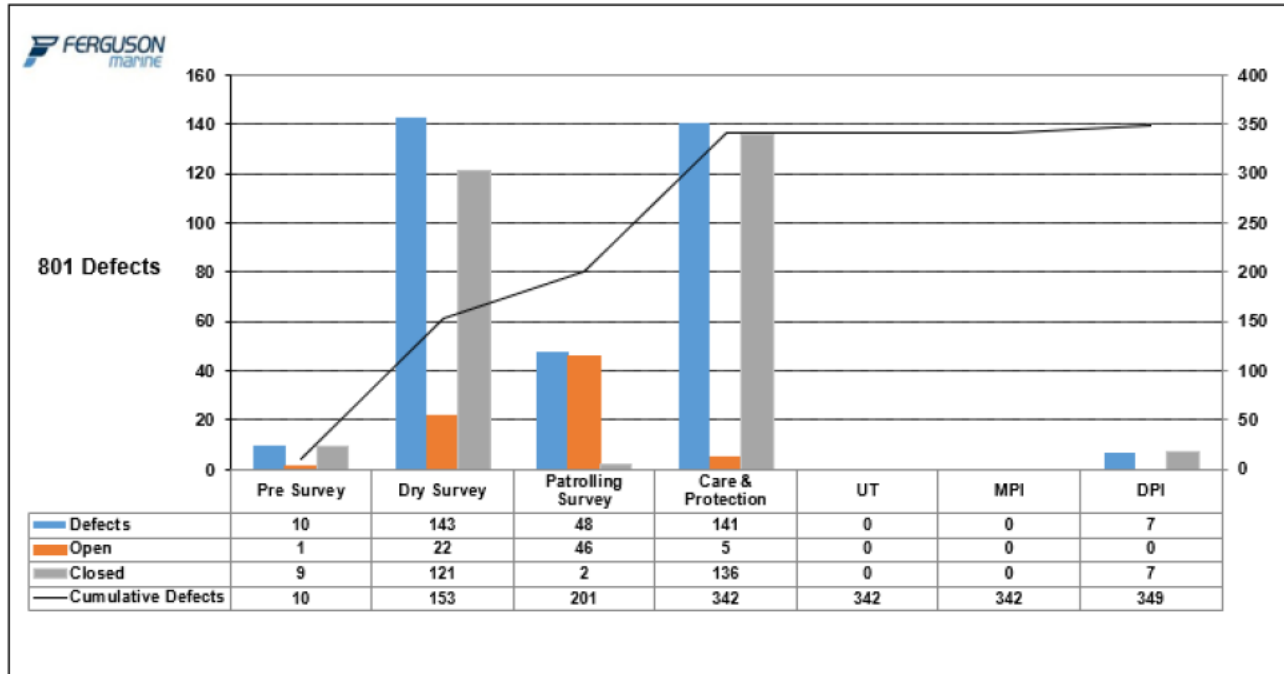
3. Business Success Criteria

Success Criteria	Due	Owner	Enabler	Status	TL	Fut Tr
All work undertaken at ship is by work package and identified in the programme	June 20	[redacted]	<ul style="list-style-type: none"> Development of the programme down to a work package level. Time recording aligned to allow roll up. Time recording process effective. 	<ul style="list-style-type: none"> 801/802 project programmes are now at Lvl4 detail. Manhours, zones, sub-zones and CAM's are coded within P6 for monitoring and reporting purposes. 	G	↔
Work packages are issued with associated information and materials	June 20	[redacted]	<ul style="list-style-type: none"> Inventory is loaded into the stores management module on [redacted] Inventory can be coded to align with P6 plan 	<ul style="list-style-type: none"> Work packages for fabrication, hotwork and pipe manufacture are now being issued with material identified. Improvements on how these are managed in production are being progressed. 	A	↑
Inventory is properly identified in [redacted] to the appropriate level	May 20	[redacted]	<ul style="list-style-type: none"> Movement of equipment from [redacted] to new facility and entered onto [redacted] with appropriate part numbering 	<ul style="list-style-type: none"> Inventory has now been QC checked [redacted] material checking is now underway and comms cabinets have been completed), loading into Factory Master is now well underway with approx. 9500 items loaded. 	G	↔
Technical information is produced on time and change is minimised	Sept 20	[redacted]	<ul style="list-style-type: none"> [redacted] are contracted to complete the design. Design review process allows proper review of the design before issue 	<ul style="list-style-type: none"> The [redacted] programme to delivery AFC drawings will complete at the end of January. The Field Engineering Team are clearing holds by zone 	G	↔
Technical information is produced on time and change is minimised	Sept 20	[redacted]	<ul style="list-style-type: none"> Produce and maintain an accurate MDR, identify which existing drawings are required to be updated, identify which drawings are required for planned work packages. Minimise change by confirming design is compliant to requirements and complete 	<ul style="list-style-type: none"> Legacy drawings being checked for validity. Basic design not completely approved so there is a risk of change. Ship requires survey to scope structural changes – survey of car deck has been completed and identified 1 major issue (breast plate to install), 190 actions are detailed and being progressed by Eng / Ops teams 	A	↔
Control of change is a properly managed process	March 20	[redacted]	<ul style="list-style-type: none"> Creation of a new process, implementation and adherence 	<ul style="list-style-type: none"> An overall change process has been operating for some months, however there is now a level of change appearing from the [redacted] field engineering team requiring stop works. The detailed process for managing this is being finalised 	A	↔
Customer relationship is positively maintained throughout the project	Through the project	[redacted]	<ul style="list-style-type: none"> Regular dialogue at all levels, monthly reviews, ad hoc meetings 	<ul style="list-style-type: none"> Model reviews are now complete and the focus is now on the resolution of issues at the ship. There are currently no relationship issues. 	G	↔
Identify and manage risks and opportunities	Through the project	[redacted]	<ul style="list-style-type: none"> A risk review process is in place and is being proactively managed 	<ul style="list-style-type: none"> Risk review are being undertaken monthly. Key risks are being actioned 	G	↔
The project is properly resourced with suitably qualified and experienced people	April 20	[redacted]	<ul style="list-style-type: none"> Accurate resource forecasting from the schedule and a resource strategy in place 	<ul style="list-style-type: none"> The lack of subcontract production labour is now impacting the programme. This is being reviewed weekly to determine how this can be improved and recovered Engineering has key resource requirements to reduce the reliance on contractors. [redacted] are now on contract to provide additional pipefitting resource. 	R	↔

4. SOFT Report

Successes	Opportunities
<ul style="list-style-type: none"> • All production staff returned to work on the 8th February with new amenities now in place. • In accordance with the new home working requirements, most office based staff are now working from home. The planning team has returned to work to support production • External piping manufacture for zone 2 is now complete and zone 3 & 4 are on order with deliver forecast mid February to end March. • Electrical installation - [redacted] have now commenced work w/c 22/02 with 6 people on site • Zone 02 pipework rectification is near completion and pipework install will now start to pick up. • Zone 2 seat installation has now commenced • [redacted] have completed the first AFC delivery and work is now focused on clearing noids by the field engineering team. • A new supplier has been found to profile aluminium and this will be available in time for start manufacture. • Pipework remedial work is now progressing well with progressive sign off of lines being agreed with QC and CMAL 	<ul style="list-style-type: none"> • Improved dimensional control using 3D technology. To be initially implemented on 802 units 82/83/84 and then future units/structure. • Build strategy review for 802 to build as blocks for wheelhouse and bow units prior to erection at ship • Double curvature plate has been identified as a problem area and an order is being placed with [redacted] to produce these plates. This affects the 802 ducktail and bow units. • [redacted] is now on order ready to commence studding 801 areas 5dk and above. • Use of [redacted] for pipe closers to be assessed. • To recover delays arising from COVID and labour shortfalls, a weekend shift will be put in place to work the critical paths on a 7 day week basis for both ships.
Failures	Threats
<ul style="list-style-type: none"> • Subcontract labour continues to be an issue. Available labour has been focused on 801 production in the manufacturing shop and the ship. The subcontract of units for 802 (to be built onsite) and steelwork at the ship is being considered. Further resourcing solutions are being reviewed. • The impact of the suspension of production work, labour shortfall and the extension to the 801 drydock will require a review of the 801/802 programmes. This is planned to complete by mid March. • The technical proposal for 801 hull paint repair has not been agreed with CMAL. CMAL consider that a full blast back will be required to meet the specification. FMPG are reviewing alternative options. • Although progress on remedial work is progressing, further issues regarding the incorrect use of axilocks in Cat A machinery spaces have been identified and rectification is in hand. 	<ul style="list-style-type: none"> • COVID 19 impact to programme– Further issues/restrictions remain a threat to the programme. • Volume outfitting is now commencing, the production organisation to manage this volume is currently not in place. Additional management and supervision has been identified and recruitment, either permanent or temporary, is in hand. Supervision will be increased at the start of March • Working practice changes proposed through production wage negotiations may take longer than expected. The ballot has now been accepted and the new working week will commence on 1st March. • The manufacturing shop loading, and resource, to deliver 801/802/805 work is a concern. Walkways and stairs will be subcontracted. Also the aft mast is being subcontracted. • Weight report – full review of the report is currently underway using [redacted] generated data and validating [redacted] where possible. This may have a weight growth risk • FO & LO pipework has been delivered untreated (pickle & passivate) and will require corrective treatment.
Impact Statement / Help Needed	

5. Quality 801

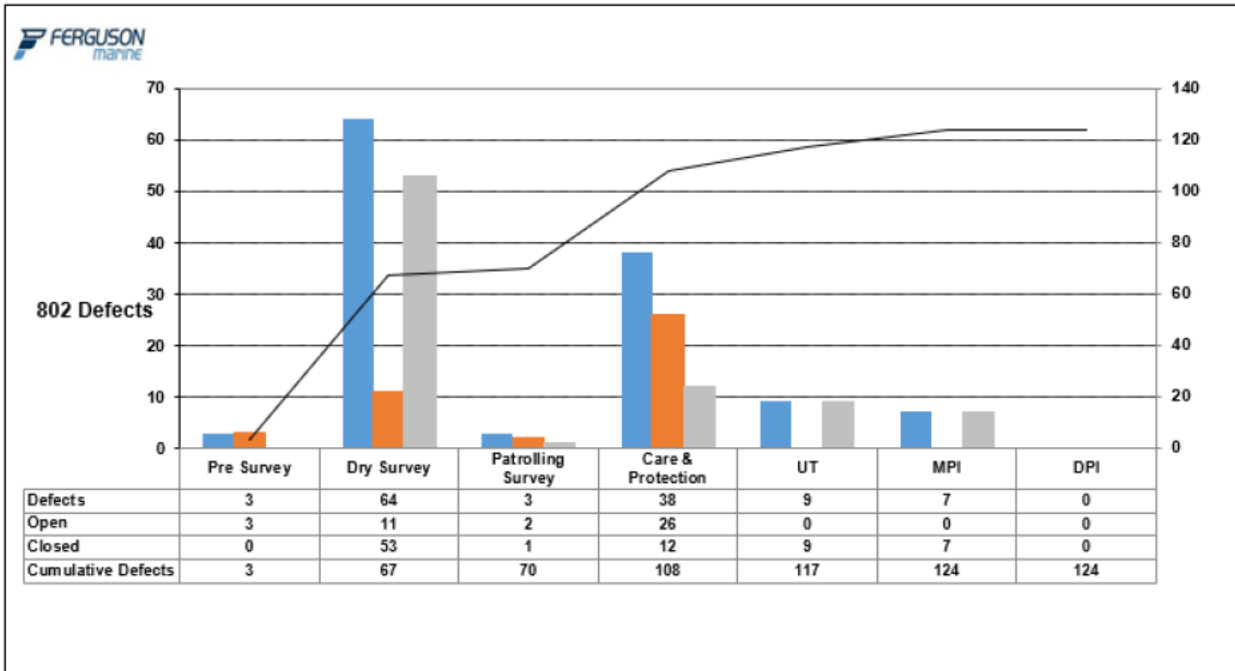


Open Defects 801			
	Current	Previous	Prior
Critical	7	29	28
Major	25	29	29
Moderate	16	24	22
Low	6	6	6
Total	> 60	20 - 60	< 20

Critical

- Relate to Legacy issues:
 - Panama Eyes defects now consolidated into 5 subzone locations
 - Bow Thruster space Web thickness – plan in place to complete and close
 - Aft mooring Dk local pitting — plan in place to complete and close
- **Major:** - ER pipes not welded, isolated equipment damage, structural elements to complete
- **Moderate:** - fairing, lugs, brackets

5. Quality 802



Open Defects 802			
	Current	Previous	Prior
Critical	1	2	0
Major	2	3	5
Moderate	4	5	5
Low	33	33	41
Total	> 60	20 - 60	< 20

Critical

- Relate to Legacy issues:
 - External shell alignment block 9/10
 - Internal transformer coil corrosion
- Major: Structural deflections
- Moderate: C&P & Dry survey defects

5. Quality

Internal definition of our processes mapping of fabrication, pipe manufacture, Dimensional control gaining pace with draft workshops complete prior to formal launch as we drive to a process driven quality system .

Additional coating surveillance surveys underway. Aft mooring quarter decks now prepared and primed.

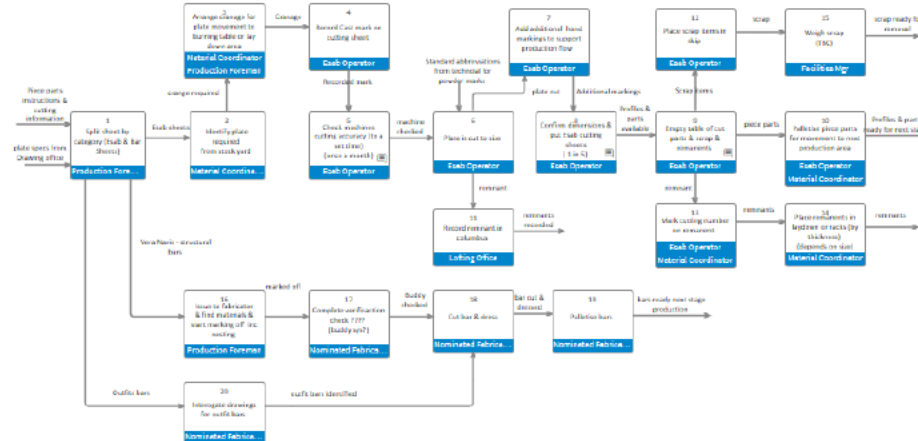
L11 BHD recesses, pre survey inspection along with Class completed, minor elements to address but found satisfactory to attending [redacted] surveyor and feedback given to CMAL Site team.

[redacted] material state survey against latest design information complete and remedials with Operations

[redacted] survey completed and wait formal report preliminary indication material condition found satisfactory. Program of desiccant bag change out and renewal .

Legacy workmanship pipe installation remedials gaining momentum with successful progressive signoff of lines in zone 2 (ER) & Zone 3 (pipe and cable space) by QC, CMAL . [redacted] site surveyor reviewed workmanship and QC control with successful results across following systems:

- Clean Bilge
- Ballast
- Fresh Water
- ME High Temp cooling
- Oily bilge
- Total flooding



Cut Parts and Profiles and QC checks



ER & Zone 3 progressive signoff CMAL/QC



Correct Axilock Fit up Sign off CMAL/QC

6. Traffic Light Report

Criteria	Overall Status				Future Trend	Return to Green		Comments
	Oct 20	Nov 20	Dec 20	Jan 21		Date	Status	
Overall Status	R	R	R	R	↔	Mar	R	<ul style="list-style-type: none"> The revised Quarterly Look Ahead, QLA, for Q1 was agreed in December. This has been impacted by the COVID suspension of work and a continuing shortfall in subcontract labour. Available labour is being focused onto 801. A full return to work commenced on 8th Feb. A rebaseline is currently planned to complete mid March.
Safety	A	A	A	A	↑	TBA	G	<ul style="list-style-type: none"> An interim senior safety director has now been appointed and has undertaken a gap analysis. This shows a score of 23%. Priority H&S actions are being identified however COVID precautions have taken precedence through January
Quality	R	R	A	A	↑	Mar	G	<ul style="list-style-type: none"> Quality moves to Amber and follows the natural progression of understanding the quality issues and route to closure. [redacted] contract and equipment checks part of scope. The survey and servicing of the main engines has commenced and the engineer has returned to site. The underwater paint system proposal has been returned by CMAL with reservations on repair however more detailed discussion required to fully understand and close out. Transformer survey complete and repair by replacement has been agreed. Dimensional control surveys with Specialist contractor underway. Double curvature planning now outsourced.
Customer Satisfaction	G	G	G	G	↔			
Schedule	R	R	R	R	↔	TBA	R	<ul style="list-style-type: none"> The revised Quarterly Look Ahead, QLA, for Q1 was agreed in December. This has been impacted by the COVID suspension of work and a continuing shortfall in subcontract labour. Available labour is being focused onto 801. A full return to work commenced on 8th Feb. A rebaseline is currently planned to complete mid March.
Finance	G	G	G	G	↔			<ul style="list-style-type: none"> The re-baseline has maintained the previous forecast at completion. There is an increasing amount of hours unspent which reflects the lack of labour
Technical	A	A	A	A	↑	Mar	A	<ul style="list-style-type: none"> Updated LR / MCA approvals Matrix of responsibilities has recently been issued by the MCA, to be reviewed. Design verification completed; many issues found, typically poor documentation. Weight and stability calculations have been reviewed and there are a high number of issues to resolve. Weight report will be redone using supporting information from [redacted] and validating [redacted]
Suppliers	G	G	G	G	↔			<ul style="list-style-type: none"> 801/802 Electrical Cable Supply and Installation tender concluded, with report pending from onsite survey. Moderation completed on Pipe Fitting framework with 3 from 5 bids selected. 3 bids received on 801/802 Hydraulics tender with evaluation in process.
Resources	R	R	R	R	↔	TBA	R	<ul style="list-style-type: none"> Subcontract production labour is building up more slowly than planned. The lack of labour is now impacting the programme. This is currently being reviewed to determine how this can be improved and recovered. Engineering have recruited a number of key people however there still remains a reliance on contractors.
Risk	R	R	R	R	↔	TBA	G	<ul style="list-style-type: none"> The status remains red as the labour risk is impacting the programme. The COVID risk has also impacted with the suspension of production occurring in January.

7. KPIs / Balanced Scorecard

Planning

Schedule Performance Index

	Current	Previous	Prior
801	0.74	0.56	0.57
802	0.74	0.5	0.55
RAG:	< 0.75	0.75 - 0.95	> 0.95

Cost Performance Index

	Current	Previous	Prior
801	0.88	0.65	0.66
802	0.83	0.83	0.87
RAG:	< 0.75	0.75 - 0.95	> 0.95

Work Packs Opened

	Planned	Actual	Adherence
Manufacturing	103	63	61%
Installation	15	15	100%
RAG:	< 80%	80 - 90%	> 90%

Work Packs Closed

	Planned	Actual	Adherence
Manufacturing	67	29	43%
Installation	7	0	0%
RAG:	< 80%	80 - 90%	> 90%

Defects

Open Defects 801

	Current	Previous	Prior
Critical	26	29	28
Major	25	29	29
Moderate	16	24	22
Minor	6	6	6
Total	73	85	85
RAG:	> 60	20 - 60	< 20

Open Defects 802

	Current	Previous	Prior
Critical	1	2	0
Major	2	3	5
Moderate	4	5	5
Minor	33	33	41
Total	40	51	51
RAG:	> 60	20 - 60	< 20

SHE

Health and Safety

	Current	Previous	Prior
Lost Working Days	0	0	0
RAG:	> 3	1 - 3	< 0

Budget

Budget £m

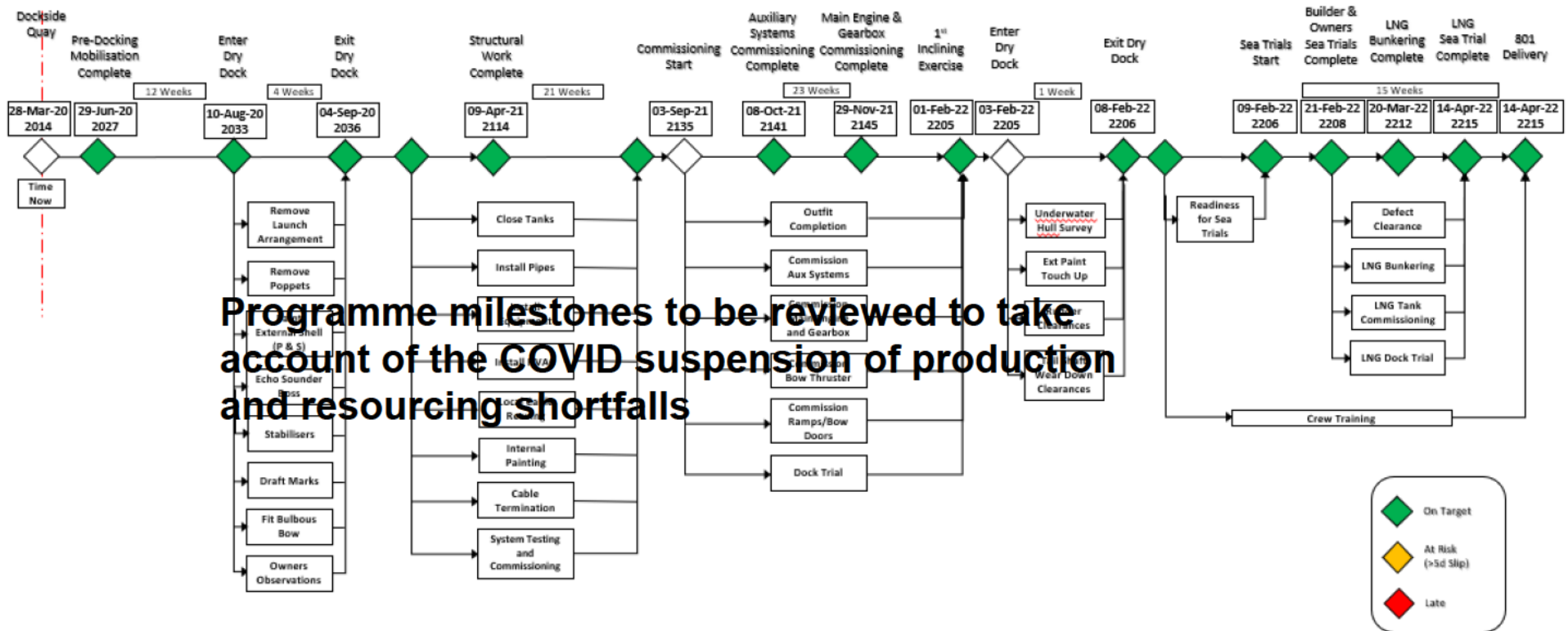
	Original	Forecast	Adherence
801	£45.5	£46.2	102%
802	£63.2	£62.5	99%
Capex	£1.6	£1.6	100%
Total	£110.3	£110.3	100%
RAG:	< 95%	95 - 98%	> 98%

801/802 Manpower - FTE 30: 2104-2106

	Planned	Actual	Adherence
Ancillary	43	7	16%
Caulker/Burner	17	4	24%
Joiner	23	0	0%
Painter	13	15	115%
Pipefitter	46	14	30%
Plater	69	16	23%
Scaffolder	16	3	19%
Shipwright	9	0	0%
Welder	74	8	11%
Engineer	16	1	6%
801 Total	143	67	47%
802 Total	182	0	0%
Total	307	67	22%
RAG:	> 80%	80 - 90%	> 90%

8. 801 Schedule Overview as @ Baseline Position (Aug 2020)

801 Timeline to Delivery

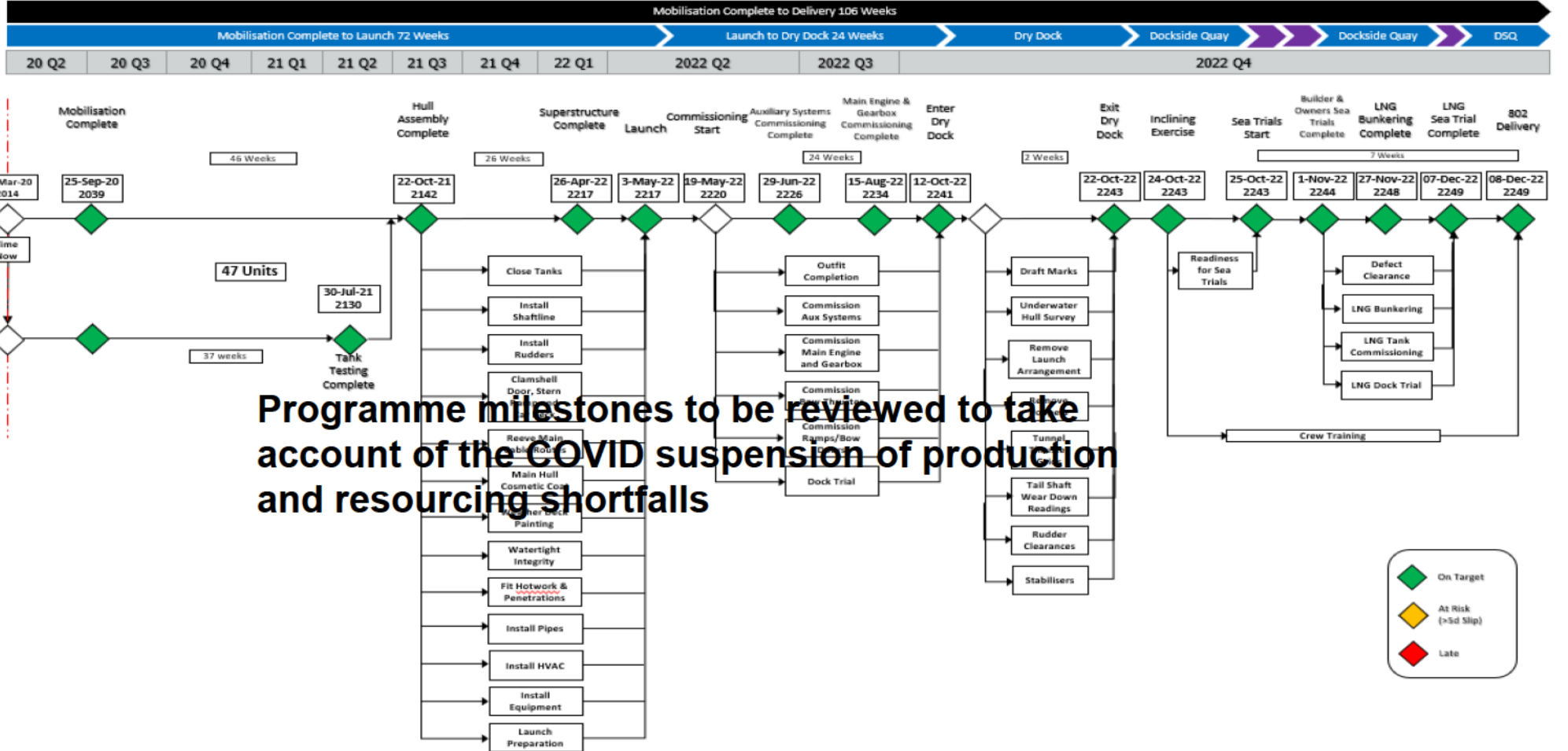


Programme milestones to be reviewed to take account of the COVID suspension of production and resourcing shortfalls

CDP has 3 weeks time contingency included compared to our Driving Project Plan

9. 802 Schedule Overview as @ Baseline Position (Aug 2020)

802 Timeline to Delivery



9. CMAL/Transport Scotland Milestones – status to end 2020

801/802 Milestones - Q4 2020 and Q1 2021

801				2020 Q3	2020 Q4				2021 Q1			Status
Description	Month	Year	Qtr	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
Zone 02 AFC Drawing Issue Complete	October	2020	Q3		◆						Complete	
Electrical Contract Awarded	November	2020	Q4			◆					Complete	
Z11 Production Outputs Complete	Decemeber	2020	Q4				◆				Complete	
Start Engine Room Hotwork	January	2021	Q1					◆				
Completion of car deck recesses	February	2021	Q1						◆			
complete install pipework in sub zone 0303	March	2021	Q1							◆		

Programme milestones to be reviewed to take account of the COVID suspension of production and resourcing shortfalls

802				2020 Q3	2020 Q4				2021 Q1			Status
Description	Month	Year	Qtr	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
Commence Preparation Unit 3/5	October	2020	Q3		◆						Complete	
Complete preparation unit 3/5	November	2020	Q4			◆					Complete	
Erect Unit 82 at Berth	November	2020	Q4			◆					Outstanding - delayed for new dimensional survey and painting. Unit will be erected with minimal rework	
Complete preparation for unit 48	December	2020	Q4				◆				Unit steelwork has been inspected and scrapped (with the exception of the bulbous bow) Steel will be provided by centralstaal. This will be reforecast	
Commence Tank Testing	January	2021	Q1					◆				
Commence Zone 2 Pipework Manufacturing	February	2021	Q1						◆			
Commence Zonal Hotwork Programme - Zone 2	March	2021	Q1							◆		

9. Schedule Overview (3)

[redacted]

Programme

Zone		3D Model					Production Outputs			801				Comments	
		Start	30% Review	60% Review	90% Review	Freeze	Start	Finish	Slippage (Weeks)	Outfit Hotwork Baseline Start	Slippage (Weeks)	Outfit Pipework Baseline Start	Slippage (Weeks)		
Zone 01	Planned	18-May-20		19-Jan-20	31-Jul-20	21-Aug-20		16-Oct-20			18-Jan-21		28-Jan-21		
	Actual/Forecast	26-Jan-20		26-Jan-20	28-Aug-20	18-Sep-20		19-Feb-21	-18		05-May-21	-15	09-Jan-21	-19	
Zone 02	Planned	02-Mar-20		27-Mar-20	30-Apr-20	22-May-20		17-Jul-20			26-Oct-20		08-Dec-20		
	Actual/Forecast	27-Mar-20		30-Mar-20	15-Jan-20	03-Jul-20		09-Oct-20	-10		25-Jan-21	-13	16-Nov-20	3	Variation order raised to cover slippage. FMPG could not hit maturity level 90% on original dates, additional time of 5 weeks agreed by FMPG. ICR's had a major impact on this WZ. Second 90% review also held.
Zone 03	Planned	09-Mar-20		10-Apr-20	22-May-20	12-Jun-20		07-Aug-20			23-Nov-20		26-Nov-20		
	Actual/Forecast	10-Apr-20		13-Apr-20	25-May-20	10-Jul-20		27-Nov-20	-16		14-Apr-21	-20	15-Mar-21	-16	Regarding WZ03 - [redacted] for Zone 03 - GL3 was held on 18.05.2020. ICE conclusion with respect to maturity of design / 3-D Model is that 3-D Model overall progress is around 80% (multidisciplinary) and not all the disciplines achieved the 90% target: *Structural - 85%; *Arch. Outfitting - 90%; *Hull Outfitting - 75%; *Electrical - 80%; *Piping - 70%; *HVAC - 30%. @W22: On 21.05.2020, FM accepted 3 weeks delay for WZ03.
Zone 04	Planned	30-Mar-20		24-Apr-20	05-Jun-20	26-Jun-20		14-Aug-20			23-Nov-20		03-Dec-20		
	Actual/Forecast	24-Apr-20		27-Apr-20	15-Jun-20	03-Jul-20		06-Nov-20	-12		29-Mar-21	-18	21-Apr-21	-20	
Zone 05	Planned	06-Apr-20	08-May-20	12-Jun-20	17-Jul-20	07-Aug-20		25-Sep-20			11-Jan-21		22-Jan-21		
	Actual/Forecast	08-May-20	11-May-20	19-Jun-20	14-Aug-20	04-Sep-20		15-Jan-21	-16		04-May-21	-16	07-Jun-21	-19	WZ slippage due to FMPG requested break in programme to allow extra time to clear ICR's.
Zone 06	Planned	02-Mar-20	03-Apr-20	15-May-20	26-Jun-20	17-Jul-20		04-Sep-20			08-Feb-21		12-Feb-21		
	Actual/Forecast	03-Apr-20	06-Apr-20	18-May-20	10-Jul-20	24-Jul-20		15-Jan-21	-19		21-Apr-21	-10	19-May-21	-14	WZ slippage due to FMPG requested break in programme to allow extra time to clear ICR's.
Zone 07	Planned	16-Mar-20	16-Apr-20	29-May-20	10-Jul-20	31-Jul-20		25-Sep-20			01-Mar-21		07-Apr-21		
	Actual/Forecast	16-Apr-20	21-Apr-20	09-Jun-20	17-Jul-20	07-Aug-20		17-Dec-20	-12		22-Feb-21	1	14-May-21	-5	WZ slippage due to FMPG requested break in programme to allow extra time to clear ICR's.
Zone 08	Planned	25-May-20	19-Jun-20	24-Jul-20	28-Aug-20	18-Sep-20		06-Nov-20			21-Apr-21		12-May-21		
	Actual/Forecast	26-Jun-20	26-Jun-20	21-Aug-20	23-Oct-20	30-Oct-20		12-Feb-21	-14		07-Apr-21	2	19-May-21	-1	WZ slippage due to FMPG requested break in programme to allow extra time to clear ICR's.
Zone 09	Planned	09-Jun-20	03-Jul-20	07-Aug-20	11-Sep-20	02-Oct-20		20-Nov-20			08-Mar-21		18-Mar-21		
	Actual/Forecast	10-Jul-20	31-Jul-20	11-Sep-20	06-Nov-20	06-Nov-20		26-Feb-21	-14		14-Apr-21	-5	01-Jun-21	-11	WZ slippage due to FMPG requested break in programme to allow extra time to clear ICR's.
Zone 10	Planned	27-Apr-20	29-May-20	10-Jul-20	21-Aug-20	11-Sep-20		06-Nov-20			22-Mar-21		16-Apr-21		
	Actual/Forecast	05-Jun-20	09-Jun-20	17-Jul-20	09-Oct-20	30-Oct-20		12-Feb-21	-14		28-Apr-21	-5	31-May-21	-6	WZ slippage due to FMPG requested break in programme to allow extra time to clear ICR's.
Zone 11	Planned	21-Apr-20	22-May-20	03-Jul-20	14-Aug-20	04-Sep-20		30-Oct-20			25-Jan-21		22-Feb-21		
	Actual/Forecast	22-May-20	25-May-20	10-Jul-20	18-Sep-20	09-Oct-20		12-Feb-21	-15		06-May-21	-14	24-Jun-21	-17	WZ slippage due to FMPG requested break in programme to allow extra time to clear ICR's.

9a. [redacted]

Status

Colours Legend:

WZ02	Light Blue
WZ03	Light Green
WZ04	Light Yellow
WZ06	Light Blue
WZ07	Light Green
WZ08	Light Yellow
WZ09	Light Blue
WZ11	Light Green
WZ10	Light Yellow
WZ09	Light Blue

	2020.47	2020.48	2020.49	2020.50	2020.51	2020.52	2020.53	2021.01	2021.02	2021.03	2021.04	2021.05	2021.06	2021.07	2021.08	2021.09	2021.10	2021.11	2021.12	2021.13	2021.14	2021.15	2021.16	2021.17	2021.18	2021.19	2021.20	2021.21	2021.22	2021.23	2021.24	
Piping 3D Model																																
Piping 2D Model																																
Electrical 3D Model																																
Electrical 2D Model																																
Hu I Outfitting 3D Model																																
Hu I Outfitting 2D Model																																
Piping 3D Model																																
Piping 2D Drawings																																
Electrical 3D Model																																
Electrical 2D Drawings																																
Hu I Outfitting 3D Model																																
Hu I Outfitting 2D Drawings																																
ITWAC	4	4	4	4	4	0																										
Structural	9	9	9	9	40	12																										

WZ04 Focus on Pipe sketches WZ07 SFI 309 full package (AFC revision) WZ10 WZ06 WZ05 WZ11 WZ01 WZ08 WZ09

Modification Sheets from all work zones

Dep	Clock No.	Name/Surname	2020.47	2020.48	2020.49	2020.50	2020.51	2020.52	2020.53	2021.01	2021.02	2021.03	2021.04	2021.05	2021.06	2021.07	2021.08	2021.09	2021.10	2021.11	2021.12	2021.13	2021.14	2021.15	2021.16	2021.17	2021.18	2021.19	2021.20	2021.21	2021.22	2021.23	2021.24
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Time Now

9b. Milestone Slip Chart (Ship 801)

801 CMAL Milestones

	Baseline Date Variance	Baseline Float Comparison	Comments												
Zone 2 AFC Drawing Issue Compl	<p>Zone 2 AFC Drawing Issue Complete</p> <table border="1"> <tr><td>Baseline</td><td>31-Oct-20</td></tr> <tr><td>Current</td><td>31-Oct-20</td></tr> <tr><td>Variance</td><td>0</td></tr> </table>	Baseline	31-Oct-20	Current	31-Oct-20	Variance	0	<p>Zone 2 AFC Drawing Issue Complete</p> <table border="1"> <tr><td>Baseline</td><td>0</td></tr> <tr><td>Current</td><td>0</td></tr> <tr><td>Variance</td><td>0</td></tr> </table>	Baseline	0	Current	0	Variance	0	Complete
Baseline	31-Oct-20														
Current	31-Oct-20														
Variance	0														
Baseline	0														
Current	0														
Variance	0														
Electrical Contract Installed	<p>Electrical Contract Awarded</p> <table border="1"> <tr><td>Baseline</td><td>13-Nov-20</td></tr> <tr><td>Current</td><td>13-Nov-20</td></tr> <tr><td>Variance</td><td>0</td></tr> </table>	Baseline	13-Nov-20	Current	13-Nov-20	Variance	0	<p>Electrical Contract Awarded</p> <table border="1"> <tr><td>Baseline</td><td>0</td></tr> <tr><td>Current</td><td>0</td></tr> <tr><td>Variance</td><td>0</td></tr> </table>	Baseline	0	Current	0	Variance	0	Complete
Baseline	13-Nov-20														
Current	13-Nov-20														
Variance	0														
Baseline	0														
Current	0														
Variance	0														
Zone 11 Production Outputs Complete (C)	<p>Zone 11 Production Outputs Complete [redacted]</p> <table border="1"> <tr><td>Baseline</td><td>18-Dec-20</td></tr> <tr><td>Current</td><td>12-Feb-21</td></tr> <tr><td>Variance</td><td>-56</td></tr> </table>	Baseline	18-Dec-20	Current	12-Feb-21	Variance	-56	<p>Zone 11 Production Outputs Complete [redacted]</p> <table border="1"> <tr><td>Baseline</td><td>1</td></tr> <tr><td>Current</td><td>0</td></tr> <tr><td>Variance</td><td>-1</td></tr> </table>	Baseline	1	Current	0	Variance	-1	Complete
Baseline	18-Dec-20														
Current	12-Feb-21														
Variance	-56														
Baseline	1														
Current	0														
Variance	-1														
Start Engine Room Hotwork	<p>Start Engine Room Hotwork</p> <table border="1"> <tr><td>Baseline</td><td>12-Jan-21</td></tr> <tr><td>Current</td><td>29-Mar-21</td></tr> <tr><td>Variance</td><td>-76</td></tr> </table>	Baseline	12-Jan-21	Current	29-Mar-21	Variance	-76	<p>Start Engine Room Hotwork</p> <table border="1"> <tr><td>Baseline</td><td>10</td></tr> <tr><td>Current</td><td>-39</td></tr> <tr><td>Variance</td><td>-49</td></tr> </table>	Baseline	10	Current	-39	Variance	-49	Seats are now released to production to install
Baseline	12-Jan-21														
Current	29-Mar-21														
Variance	-76														
Baseline	10														
Current	-39														
Variance	-49														
Completion of Car Deck Recesses	<p>Completion of Car Deck Recesses</p> <table border="1"> <tr><td>Baseline</td><td>20-Apr-21</td></tr> <tr><td>Current</td><td>12-Mar-21</td></tr> <tr><td>Variance</td><td>39</td></tr> </table>	Baseline	20-Apr-21	Current	12-Mar-21	Variance	39	<p>Completion of Car Deck Recesses</p> <table border="1"> <tr><td>Baseline</td><td>30</td></tr> <tr><td>Current</td><td>33</td></tr> <tr><td>Variance</td><td>3</td></tr> </table>	Baseline	30	Current	33	Variance	3	The Recesses have now been released to production to install
Baseline	20-Apr-21														
Current	12-Mar-21														
Variance	39														
Baseline	30														
Current	33														
Variance	3														

9b. Milestone Slip Chart (Ship 802)

802 CMAL Milestones

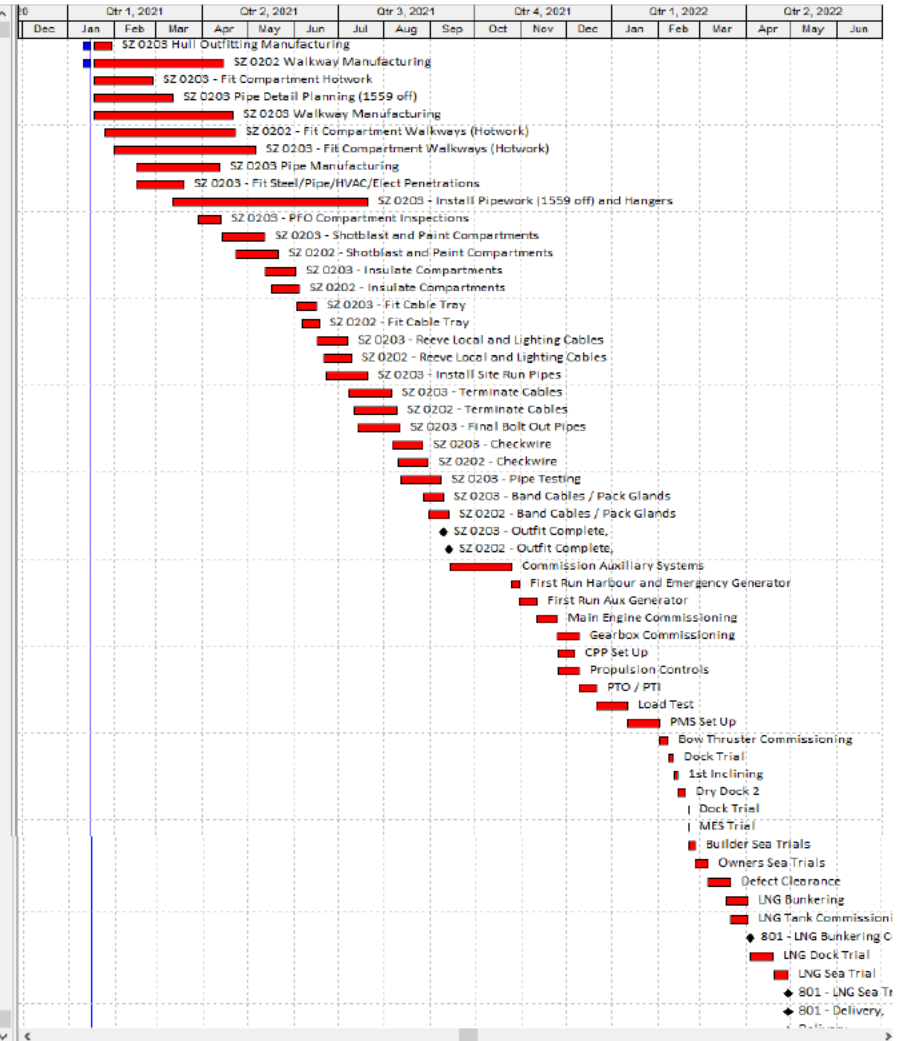
	Baseline Date Variance	Baseline Float Comparison	Comments																																																
Commence Preparation Unit 3/5	<p>Commence Preparation Unit 3/5</p> <table border="1"> <tr><td>Baseline</td><td>27-Oct-20</td></tr> <tr><td>Current</td><td>27-Oct-20</td></tr> <tr><td>Variance</td><td>0</td></tr> </table> <table border="1"> <tr><td>Variance</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	27-Oct-20	Current	27-Oct-20	Variance	0	Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	0	0	0	0	0	0	0	<p>Commence Preparation Unit 3/5</p> <table border="1"> <tr><td>Baseline</td><td>0</td></tr> <tr><td>Current</td><td>0</td></tr> <tr><td>Variance</td><td>0</td></tr> </table> <table border="1"> <tr><td>Float</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	0	Current	0	Variance	0	Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	0	0	0	0	0	0	0	Complete
Baseline	27-Oct-20																																																		
Current	27-Oct-20																																																		
Variance	0																																																		
Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	0	0	0	0	0	0	0																																											
Baseline	0																																																		
Current	0																																																		
Variance	0																																																		
Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	0	0	0	0	0	0	0																																											
Complete Preparation Unit 3/5	<p>Complete Preparation Unit 3/5</p> <table border="1"> <tr><td>Baseline</td><td>13-Nov-20</td></tr> <tr><td>Current</td><td>13-Nov-20</td></tr> <tr><td>Variance</td><td>0</td></tr> </table> <table border="1"> <tr><td>Variance</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	13-Nov-20	Current	13-Nov-20	Variance	0	Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	0	0	0	0	0	0	0	<p>Complete Preparation Unit 3/5</p> <table border="1"> <tr><td>Baseline</td><td>0</td></tr> <tr><td>Current</td><td>0</td></tr> <tr><td>Variance</td><td>0</td></tr> </table> <table border="1"> <tr><td>Float</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	0	Current	0	Variance	0	Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	0	0	0	0	0	0	0	Complete
Baseline	13-Nov-20																																																		
Current	13-Nov-20																																																		
Variance	0																																																		
Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	0	0	0	0	0	0	0																																											
Baseline	0																																																		
Current	0																																																		
Variance	0																																																		
Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	0	0	0	0	0	0	0																																											
Erect Unit 82 at Berth	<p>Erect Unit 82 at Berth</p> <table border="1"> <tr><td>Baseline</td><td>26-Nov-20</td></tr> <tr><td>Current</td><td>22-Feb-21</td></tr> <tr><td>Variance</td><td>-88</td></tr> </table> <table border="1"> <tr><td>Variance</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>-33</td><td>0</td><td>-53</td><td>-88</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	26-Nov-20	Current	22-Feb-21	Variance	-88	Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	-33	0	-53	-88	0	0	0	<p>Erect Unit 82 at Berth</p> <table border="1"> <tr><td>Baseline</td><td>0</td></tr> <tr><td>Current</td><td>-53</td></tr> <tr><td>Variance</td><td>-53</td></tr> </table> <table border="1"> <tr><td>Float</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>-6</td><td>0</td><td>-3</td><td>-3</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	0	Current	-53	Variance	-53	Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	-6	0	-3	-3	0	0	0	
Baseline	26-Nov-20																																																		
Current	22-Feb-21																																																		
Variance	-88																																																		
Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	-33	0	-53	-88	0	0	0																																											
Baseline	0																																																		
Current	-53																																																		
Variance	-53																																																		
Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	-6	0	-3	-3	0	0	0																																											
Complete Preparation of Unit 48	<p>Complete Preparation of Unit 48</p> <table border="1"> <tr><td>Baseline</td><td>18-Dec-20</td></tr> <tr><td>Current</td><td>26-Feb-21</td></tr> <tr><td>Variance</td><td>-70</td></tr> </table> <table border="1"> <tr><td>Variance</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>0</td><td>0</td><td>-35</td><td>-70</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	18-Dec-20	Current	26-Feb-21	Variance	-70	Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	0	0	-35	-70	0	0	0	<p>Complete Preparation of Unit 48</p> <table border="1"> <tr><td>Baseline</td><td>148</td></tr> <tr><td>Current</td><td>51</td></tr> <tr><td>Variance</td><td>-97</td></tr> </table> <table border="1"> <tr><td>Float</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>-46</td><td>0</td><td>-7</td><td>-67</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	148	Current	51	Variance	-97	Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	-46	0	-7	-67	0	0	0	
Baseline	18-Dec-20																																																		
Current	26-Feb-21																																																		
Variance	-70																																																		
Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	0	0	-35	-70	0	0	0																																											
Baseline	148																																																		
Current	51																																																		
Variance	-97																																																		
Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	-46	0	-7	-67	0	0	0																																											
Commence Tank Testing	<p>Commence Tank Testing</p> <table border="1"> <tr><td>Baseline</td><td>29-Jan-21</td></tr> <tr><td>Current</td><td>08-Feb-21</td></tr> <tr><td>Variance</td><td>-10</td></tr> </table> <table border="1"> <tr><td>Variance</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>-10</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	29-Jan-21	Current	08-Feb-21	Variance	-10	Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		0	0	0	0	-10	0	0	0	<p>Commence Tank Testing</p> <table border="1"> <tr><td>Baseline</td><td>142</td></tr> <tr><td>Current</td><td>122</td></tr> <tr><td>Variance</td><td>-20</td></tr> </table> <table border="1"> <tr><td>Float</td><td>18Oct</td><td>18Nov</td><td>18Dec</td><td>18Jan</td><td>18Feb</td><td>18Mar</td><td>18Apr</td><td>18May</td></tr> <tr><td></td><td>140</td><td>0</td><td>0</td><td>0</td><td>-20</td><td>0</td><td>0</td><td>0</td></tr> </table>	Baseline	142	Current	122	Variance	-20	Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May		140	0	0	0	-20	0	0	0	
Baseline	29-Jan-21																																																		
Current	08-Feb-21																																																		
Variance	-10																																																		
Variance	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	0	0	0	0	-10	0	0	0																																											
Baseline	142																																																		
Current	122																																																		
Variance	-20																																																		
Float	18Oct	18Nov	18Dec	18Jan	18Feb	18Mar	18Apr	18May																																											
	140	0	0	0	-20	0	0	0																																											

9c. Ship 801 Critical path

Activity ID	Activity Name	OD	RD	Start	Finish	BL Project Start	BL Project Finish	Total Float
801MANHO0203	SZ 0203 Hull Outfitting Manufacturing	30d	10d	11-Jan-21 A	29-Jan-21	11-Jan-21	19-Feb-21	-15d
801MANHO1111	SZ 0202 Walkway Manufacturing	66d	61d	11-Jan-21 A	14-Apr-21	11-Jan-21	14-Apr-21	-22d
801PS0203Hw01	SZ 0203 - Fit Compartment Hotwork	30d	30d	18-Jan-21*	26-Feb-21	18-Jan-21	26-Feb-21	-15d
801DPTW0203	SZ 0203 Pipe Detail Planning (1559 off)	40d	40d	18-Jan-21*	12-Mar-21	11-Jan-21	05-Mar-21	-19d
801MANHO1121	SZ 0203 Walkway Manufacturing	66d	66d	18-Jan-21*	21-Apr-21	11-Jan-21	14-Apr-21	-20d
801PS0202Hw4	SZ 0202 - Fit Compartment Walkways (Hotwork)	62d	62d	25-Jan-21*	22-Apr-21	25-Jan-21	22-Apr-21	-22d
801PS0203Hw4	SZ 0203 - Fit Compartment Walkways (Hotwork)	66d	66d	01-Feb-21	06-May-21	25-Jan-21	28-Apr-21	-20d
801MANPPO203	SZ 0203 Pipe Manufacturing	39d	39d	15-Feb-21	12-Apr-21	08-Feb-21	01-Apr-21	-19d
801PS0203Hw02	SZ 0203 - Fit Steel/Pipe/HVAC/Elect Penetrations	25d	25d	15-Feb-21	19-Mar-21	15-Feb-21	19-Mar-21	-15d
801InS0203Pi01	SZ 0203 - Install Pipework (1559 off) and Hangers	90d	90d	12-Mar-21	20-Jul-21	05-Mar-21	13-Jul-21	-19d
801PS0203Qc01	SZ 0203 - PFO Compartment Inspections	10d	10d	29-Mar-21	13-Apr-21	22-Mar-21	06-Apr-21	-20d
801PS0203Sb01	SZ 0203 - Shotblast and Paint Compartments	20d	20d	14-Apr-21	12-May-21	07-Apr-21	05-May-21	-20d
801PS0202Sb01	SZ 0202 - Shotblast and Paint Compartments	20d	20d	23-Apr-21	21-May-21	23-Apr-21	21-May-21	-22d
801PS0203In01	SZ 0203 - Insulate Compartments	15d	15d	13-May-21	02-Jun-21	06-May-21	26-May-21	-20d
801TeS0203Pi01	SZ 0203 - Pipe Testing	20d	20d	12-Aug-21	08-Sep-21	05-Aug-21	01-Sep-21	-19d
801InS0203Ei04	SZ 0208 - Band Cables / Pack Glands	10d	10d	27-Aug-21	09-Sep-21	20-Aug-21	02-Sep-21	-20d
801InS0202Ei04	SZ 0202 - Band Cables / Pack Glands	10d	10d	31-Aug-21	13-Sep-21	31-Aug-21	13-Sep-21	-22d
801InS0203Ms01	SZ 0203 - Outfit Complete	0d	0d		09-Sep-21		02-Sep-21	-20d
801InS0202Ms01	SZ 0202 - Outfit Complete	0d	0d		13-Sep-21		13-Sep-21	-22d
801CO1530	Commission Auxiliary Systems	30d	30d	14-Sep-21	25-Oct-21	14-Sep-21	25-Oct-21	-22d
801CO1520	First Run Harbour and Emergency Generator	5d	5d	25-Oct-21	30-Oct-21	25-Oct-21	30-Oct-21	-32d
801CO1530	First Run Aux Generator	12d	12d	30-Oct-21	11-Nov-21	30-Oct-21	11-Nov-21	-32d
801CO1540	Main Engine Commissioning	14d	14d	11-Nov-21	25-Nov-21	11-Nov-21	25-Nov-21	-32d
801CO1550	Gearbox Commissioning	14d	14d	25-Nov-21	09-Dec-21	25-Nov-21	09-Dec-21	-32d
801CO1560	CPP Set Up	7d	7d	25-Nov-21	06-Dec-21	26-Nov-21	06-Dec-21	-21d
801CO1570	Propulsion Controls	10d	10d	25-Nov-21	09-Dec-21	26-Nov-21	09-Dec-21	-24d
801CO1580	PTO / PTI	12d	12d	09-Dec-21	21-Dec-21	09-Dec-21	21-Dec-21	-32d
801CO1590	Load Test	21d	21d	21-Dec-21	11-Jan-22	21-Dec-21	11-Jan-22	-32d
801CO1600	PMS Set Up	21d	21d	11-Jan-22	01-Feb-22	11-Jan-22	01-Feb-22	-32d
801CO1620	Bow Thruster Commissioning	6d	6d	01-Feb-22	07-Feb-22	01-Feb-22	07-Feb-22	-32d
801CO1630	Dock Trial	3d	3d	08-Feb-22	11-Feb-22	08-Feb-22	11-Feb-22	-32d
801CO1630	Dock Trial	2d	2d	12-Feb-22	14-Feb-22	12-Feb-22	14-Feb-22	-32d
801CO1640	Dry Dock 2	5d	5d	14-Feb-22	19-Feb-22	14-Feb-22	19-Feb-22	-32d
801CO1800	Dock Trial	1d	1d	21-Feb-22	21-Feb-22	21-Feb-22	21-Feb-22	-24d
801CO1830	MES Trial	1d	1d	21-Feb-22	21-Feb-22	21-Feb-22	21-Feb-22	-24d
801CO1650	Builder Sea Trials	4d	4d	21-Feb-22	25-Feb-22	21-Feb-22	25-Feb-22	-34d
801CO1660	Owners Sea Trials	9d	9d	25-Feb-22	06-Mar-22	25-Feb-22	06-Mar-22	-34d
801CO1670	Defect Clearance	15d	15d	06-Mar-22	21-Mar-22	06-Mar-22	21-Mar-22	-34d
801CO1690	LNG Bunkering	15d	15d	18-Mar-22	02-Apr-22	18-Mar-22	02-Apr-22	-34d
801CO1680	LNG Tank Commissioning	12d	12d	21-Mar-22	02-Apr-22	21-Mar-22	02-Apr-22	-34d
801KM1069	801 - LNG Bunkering Complete	0d	0d		04-Apr-22		04-Apr-22	-24d
801CO1700	LNG Dock Trial	15d	15d	04-Apr-22	19-Apr-22	04-Apr-22	19-Apr-22	-35d
801CO1710	LNG Sea Trial	9d	9d	20-Apr-22	29-Apr-22	20-Apr-22	29-Apr-22	-35d
801KM7500	801 - LNG Sea Trial Complete	0d	0d		29-Apr-22		29-Apr-22	-22d
801KM7510	801 - Delivery	0d	0d		29-Apr-22		29-Apr-22	-22d
801CO1720	Delivery	0d	0d		29-Apr-22		29-Apr-22	-22d

Zone 02 – Walkways, Hotwork & Pipework are all now on the critical path.
Schedule will be reforecast once there is a collective understanding on the impact of the following:

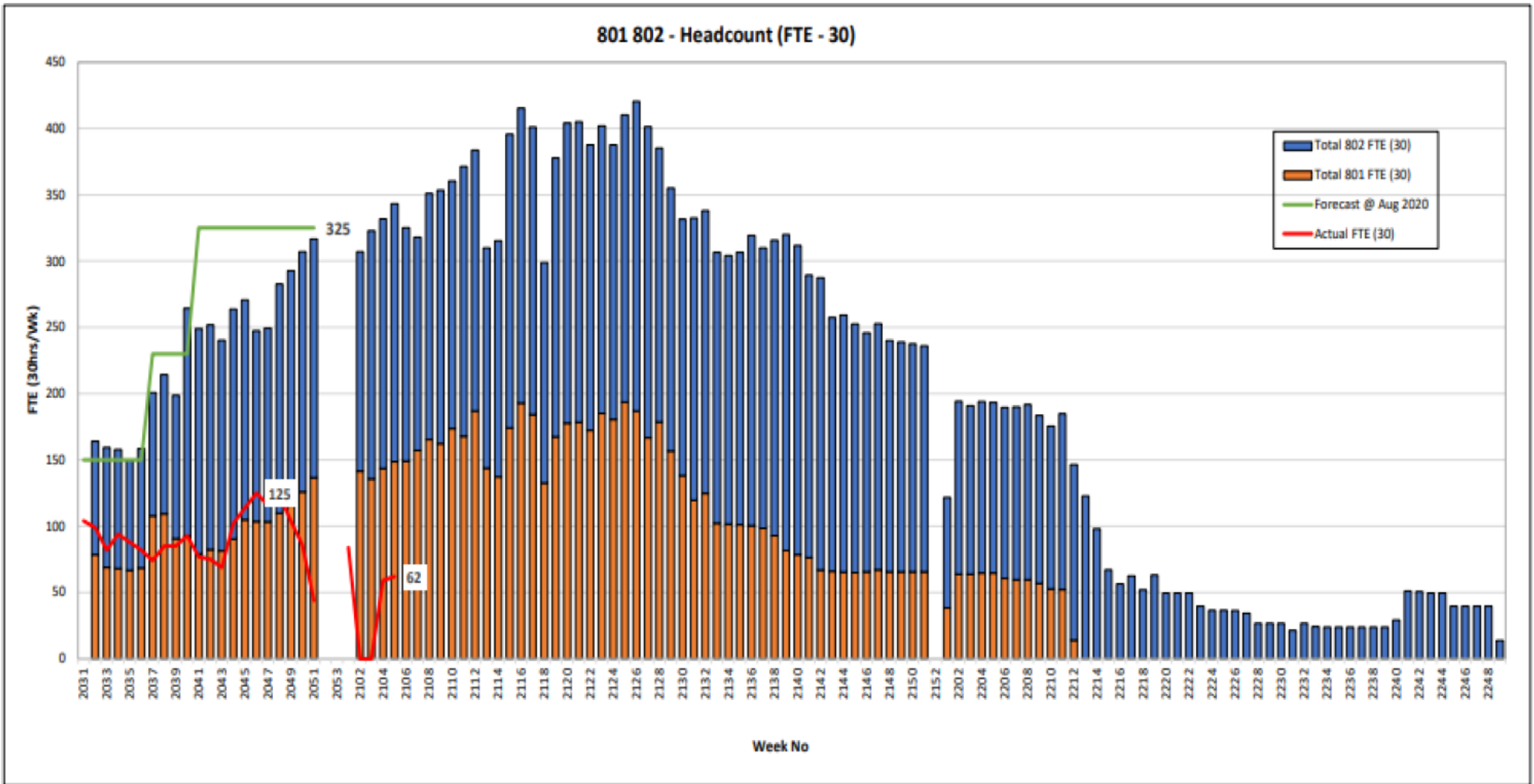
- Covid-19 Stop Work period
- Covid-19 Resource restrictions



9c. Ship 802 Critical path

Activity ID	Activity Name	OD	RD	Start	Finish	BL Project Start	BL Project Finish	Total Float	Gantt Chart																						
									Q21	Qtr 4, 2021	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023														
									Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
802MAUA116Hw01	Unit A11/6 Prep Full Unit	15d	15d	18-Nov-21*	08-Dec-21	18-Nov-21	08-Dec-21	-63d	■ Unit A11/6 Prep Full Unit																						
802FaUA116Hw01	Unit A11/6 Fab Fab-T Frames, Minor Sub-Assys and Pillars	10d	10d	16-Dec-21	07-Jan-22	16-Dec-21	07-Jan-22	-63d	■ Unit A11/6 Fab Fab-T Frames, Minor Sub-Assys and Pillars																						
802FaUA116Hw03	Unit A11/6 Fab 6 Deck Plating	15d	15d	10-Jan-22	28-Jan-22	10-Jan-22	28-Jan-22	-63d	■ Unit A11/6 Fab 6 Deck Plating																						
802ASUA116Hw01	Unit A11/6 Unit Assembly + Dry Survey	15d	15d	31-Jan-22	18-Feb-22	31-Jan-22	18-Feb-22	-63d	■ Unit A11/6 Unit Assembly + Dry Survey																						
802AS80011Hw02	Erect Fair and Weld Unit 11/6 to Block	20d	20d	21-Feb-22	18-Mar-22	21-Feb-22	18-Mar-22	-63d	■ Erect Fair and Weld Unit 11/6 to Block																						
802AS80010Hw03	Erect Fair and Weld Unit 10/7 to Block	20d	20d	04-Apr-22	04-May-22	04-Apr-22	04-May-22	-63d	■ Erect Fair and Weld Unit 10/7 to Block																						
802ER80010Hw01	Wheelhouse Block Erect, Fair and Weld	25d	25d	05-May-22	08-Jun-22	05-May-22	08-Jun-22	-63d	■ Wheelhouse Block Erect, Fair and Weld																						
802ERUA097Hw09	Unit A9/7 Erect, Fair and Weld	20d	20d	19-May-22	15-Jun-22	19-May-22	15-Jun-22	-63d	■ Unit A9/7 Erect, Fair and Weld																						
802ERUA087Hw01	Unit A8/7 Erect, Fair and Weld	20d	20d	16-Jun-22	13-Jul-22	16-Jun-22	13-Jul-22	-63d	■ Unit A8/7 Erect, Fair and Weld																						
802ERUA77Hw01	Unit A7/7 Erect, Fair and Weld	20d	20d	30-Jun-22	27-Jul-22	30-Jun-22	27-Jul-22	-63d	■ Unit A7/7 Erect, Fair and Weld																						
802KM003	802 Superstructure Complete	0d	0d		27-Jul-22		27-Jul-22	-63d	◆ 802 Superstructure Complete																						
802A6470	Commission Auxiliary Systems	30d	30d	08-Aug-22	16-Sep-22	08-Aug-22	16-Sep-22	-63d	■ Commission Auxiliary Systems																						
802A4910	Launch	0d	0d	26-Aug-22*		26-Aug-22		-29d	◆ Launch, 26-Aug-22*																						
802A4920	First Run Harbour and Emergency Generator	2d	2d	17-Sep-22	21-Sep-22	17-Sep-22	21-Sep-22	-29d	■ First Run Harbour and Emergency Generator																						
802A4930	First Run Auxiliary Generator	4d	4d	22-Sep-22	03-Oct-22	22-Sep-22	03-Oct-22	-29d	■ First Run Auxiliary Generator																						
802A4940	Main Engine Commissioning	5d	5d	04-Oct-22	17-Oct-22	04-Oct-22	17-Oct-22	-29d	■ Main Engine Commissioning																						
802A4960	Propulsion Controls	10d	10d	18-Oct-22	31-Oct-22	18-Oct-22	31-Oct-22	-61d	■ Propulsion Controls																						
802A4970	Gearbox Commissioning	5d	5d	18-Oct-22	31-Oct-22	18-Oct-22	31-Oct-22	-28d	■ Gearbox Commissioning																						
802A4980	PTO / FTI	1d	1d	01-Nov-22	04-Nov-22	01-Nov-22	04-Nov-22	-28d	■ PTO / FTI																						
802A4990	Load Test	7d	7d	06-Nov-22	26-Nov-22	06-Nov-22	26-Nov-22	-28d	■ Load Test																						
802A5000	PMS Set Up	7d	7d	27-Nov-22	17-Dec-22	27-Nov-22	17-Dec-22	-28d	■ PMS Set Up																						
802A5010	Bow Thruster Commissioning	2d	2d	18-Dec-22	22-Dec-22	18-Dec-22	22-Dec-22	-28d	■ Bow Thruster Commissioning																						
802A5020	Dock Trial	0d	0d	26-Dec-22	26-Dec-22	26-Dec-22	26-Dec-22	-28d	■ Dock Trial																						
802A5030	Dry-Dock	3d	3d	28-Dec-22	06-Jan-23	28-Dec-22	06-Jan-23	-28d	■ Dry-Dock																						
802A10677	Inclining Exercise	0d	0d	10-Jan-23	10-Jan-23	10-Jan-23	10-Jan-23	-29d	■ Inclining Exercise																						
802A5040	Builder Sea Trials	1d	1d	11-Jan-23	14-Jan-23	11-Jan-23	14-Jan-23	-29d	■ Builder Sea Trials																						
802A5050	Owners Sea Trials	1d	1d	15-Jan-23	17-Jan-23	15-Jan-23	17-Jan-23	-29d	■ Owners Sea Trials																						
802A5070	Defect Clearance	5d	5d	18-Jan-23	31-Jan-23	18-Jan-23	31-Jan-23	-29d	■ Defect Clearance																						
802A5080	LNG Tank Commissioning	4d	4d	01-Feb-23	12-Feb-23	01-Feb-23	12-Feb-23	-29d	■ LNG Tank Commissioning																						
802A5090	LNG Bunkering	2d	2d	08-Feb-23	12-Feb-23	08-Feb-23	12-Feb-23	-28d	■ LNG Bunkering																						
802A5100	LNG Dock Trial	2d	2d	14-Feb-23	18-Feb-23	14-Feb-23	18-Feb-23	-29d	■ LNG Dock Trial																						
802A5110	LNG Sea Trial	1d	1d	20-Feb-23	22-Feb-23	20-Feb-23	22-Feb-23	-29d	■ LNG Sea Trial																						
802A5120	Delivery	0d	0d		27-Feb-23*		27-Feb-23	-54d	◆ Delivery																						

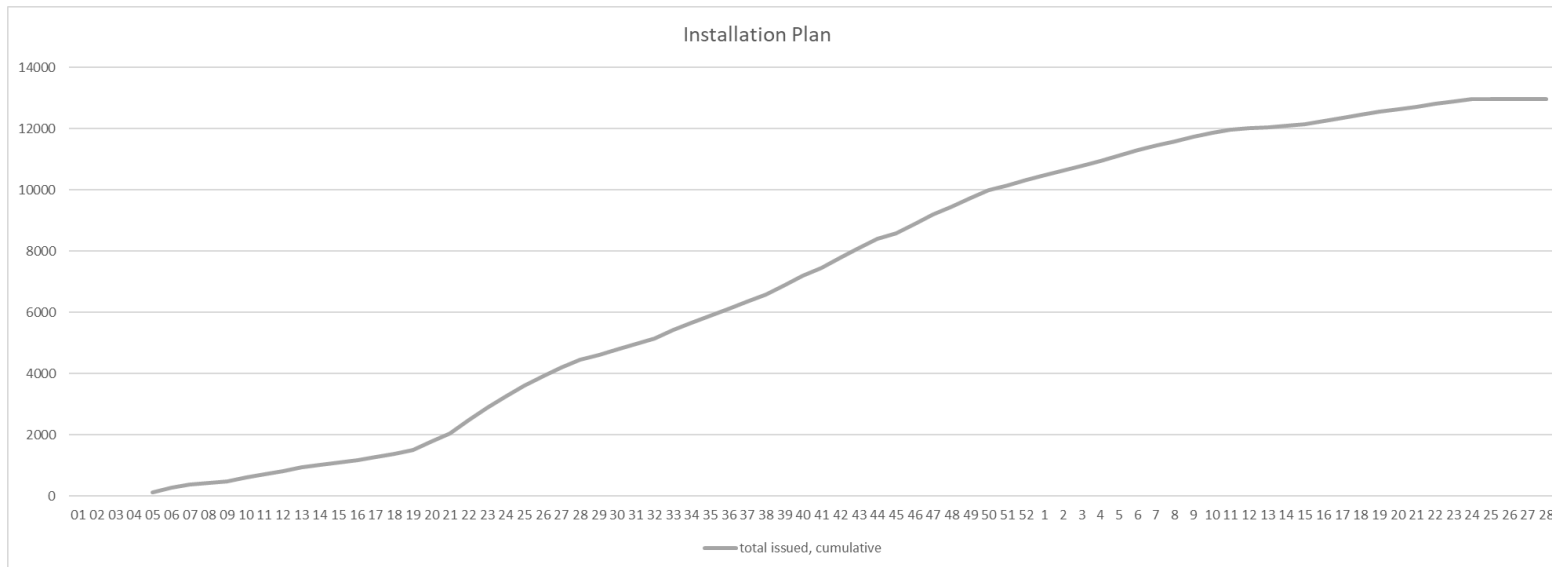
10. Resource Profile as @ Baseline Position (Aug 2020)



18. Pipe Installation

Overall

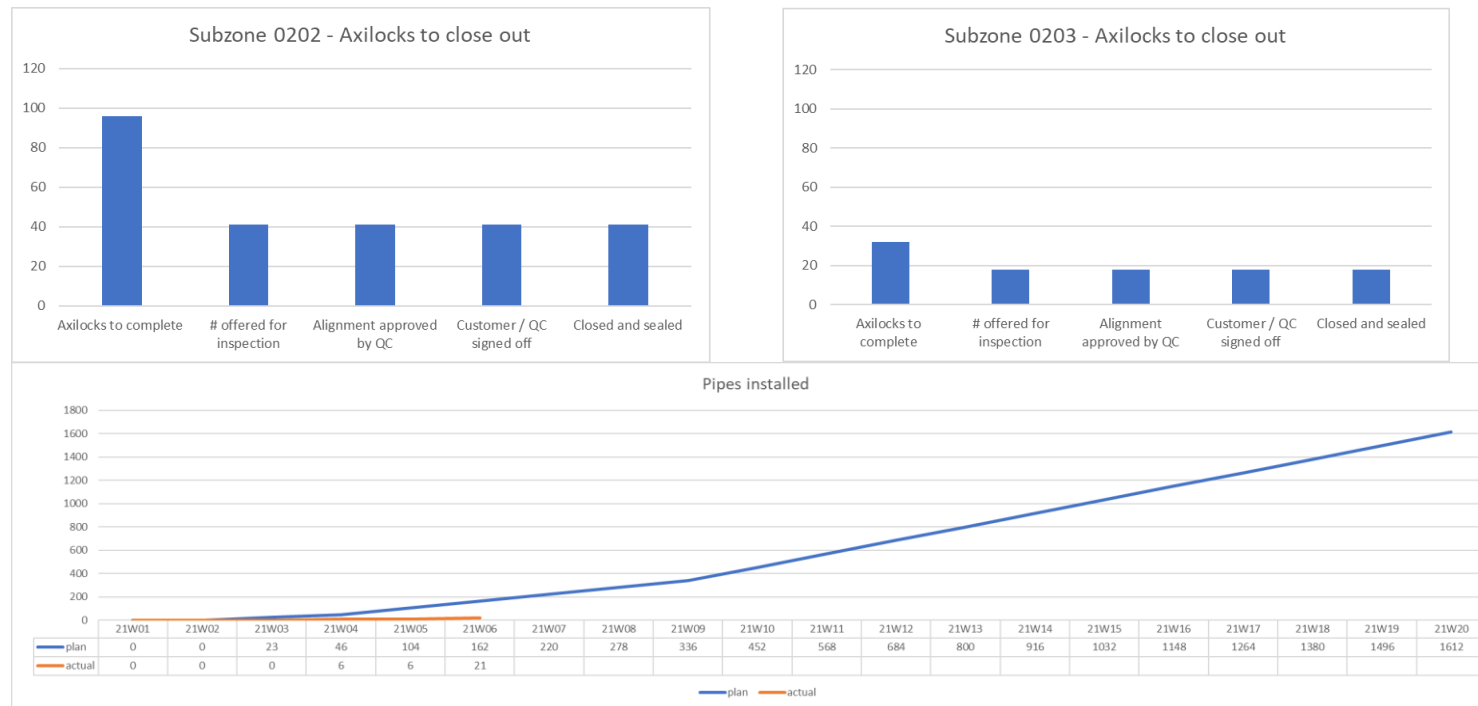
- Pipe Installation in Zone 02 and Zone 03 has commenced using FMPG & [redacted]
- Pipe alignment and Axilock checks now underway, 60+ of installed axilocks now passed by QC
- Installation rate slow to start due to legacy rework activities being progressed as priority
- Overall pipe installation curve shown below (for 801 & 802), this is what we will measure against



19. Subcontractor Activity

- [redacted]

- **Pipe Installation in Zone 02 has commenced using [redacted] (week 2104)**
- **Pipe alignment and Axilock checks now underway, 59 of installed axilocks now passed by QC**
- **Installation rate slow to start due to legacy rework activities being progressed as priority**
- **Progress reporting routines in place daily / weekly / monthly**



19. Subcontractor Activity

[redacted]

Subzone UZU1

Week No	Pipe count								Hours spent							
	# pipes installed	Hours - installing	Hours - associated penetrations	Hours - Rework on legacy installed pipes	Hours - Rework - FMFG generated	Hours - Rework - HB generated	Other	Total Hours	# pipes installed	Hours - installing	Hours - associated penetrations	Hours - Rework on legacy installed pipes	Hours - Rework - FMFG generated	Hours - Rework - HB generated	Other	Total Hours
2104	0	0	0	0	0	0	0	0	6	56	40	424	0	0	110	520
2105	0	0	0	0	0	0	0	0	0	0	24	276	0	0	0	300
2106	0	0	0	0	0	0	0	0	15	160	0	156	0	0	0	316
2107																0
2108																0
2109																0
2110																0
2111																0
2112																0
2113																0
2114																0
2115																0
2116																0
2117																0
2118																0
2119																0
2120																0
2121																0
2122																0
2123																0
2124																0

%age split 0% 0% 0% 0% 0% 0% 0%

Subzone 0202

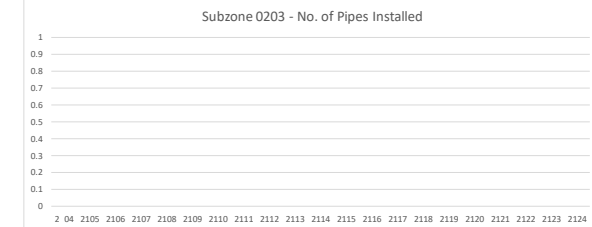
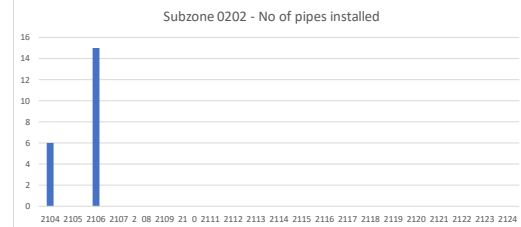
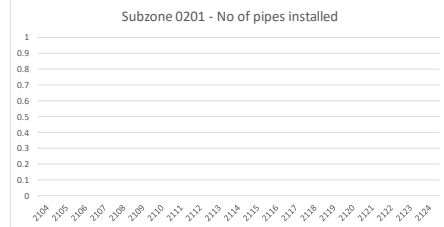
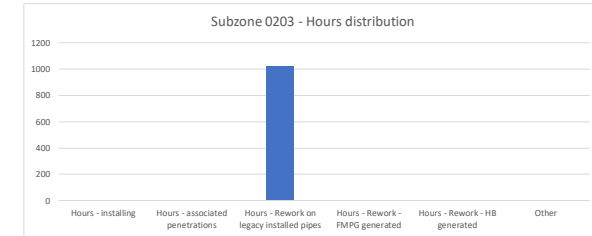
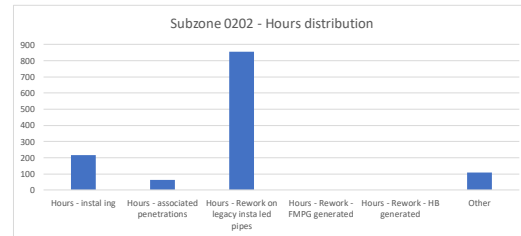
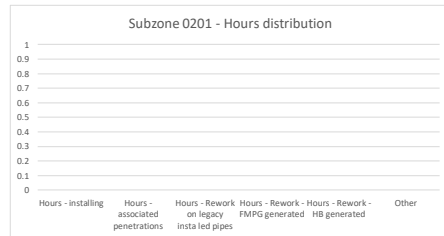
Week No	Pipe count								Hours spent							
	# pipes installed	Hours - installing	Hours - associated penetrations	Hours - Rework on legacy installed pipes	Hours - Rework - FMFG generated	Hours - Rework - HB generated	Other	Total Hours	# pipes installed	Hours - installing	Hours - associated penetrations	Hours - Rework on legacy installed pipes	Hours - Rework - FMFG generated	Hours - Rework - HB generated	Other	Total Hours
2104	6	56	40	424	0	0	110	520	21	216	64	856	0	0	110	1136
2105	0	0	24	276	0	0	0	300								
2106	15	160	0	156	0	0	0	316								
2107								0								0
2108								0								0
2109								0								0
2110								0								0
2111								0								0
2112								0								0
2113								0								0
2114								0								0
2115								0								0
2116								0								0
2117								0								0
2118								0								0
2119								0								0
2120								0								0
2121								0								0
2122								0								0
2123								0								0
2124								0								0

%age split 19% 6% 75% 0% 0% 10%

Subzone 0203

Week No	Pipe count								Hours spent							
	# pipes installed	Hours - installing	Hours - associated penetrations	Hours - Rework on legacy installed pipes	Hours - Rework - FMFG generated	Hours - Rework - HB generated	Other	Total Hours	# pipes installed	Hours - installing	Hours - associated penetrations	Hours - Rework on legacy installed pipes	Hours - Rework - FMFG generated	Hours - Rework - HB generated	Other	Total Hours
2104	0	0	0	0	0	0	0	0	0	0	0	520	0	0	0	520
2105	0	0	0	520	0	0	0	520								
2106	0	0	0	504	0	0	0	504								
2107								0								0
2108								0								0
2109								0								0
2110								0								0
2111								0								0
2112								0								0
2113								0								0
2114								0								0
2115								0								0
2116								0								0
2117								0								0
2118								0								0
2119								0								0
2120								0								0
2121								0								0
2122								0								0
2123								0								0
2124								0								0

%age split 0% 0% 0% 100% 0% 0% 0%



19. Subcontractor Activity

[redacted]

- **Electrical survey completed and pricing underway**
- **Additional information being supplied to support pricing (e.g. equipment weights)**
- **Electrical cable uncoiling commences 22 Feb**
- **Work pack priorities for cable schedules provided to [redacted] 23 Feb**
- **Weekly progress reporting reviews commenced week 18 Feb**

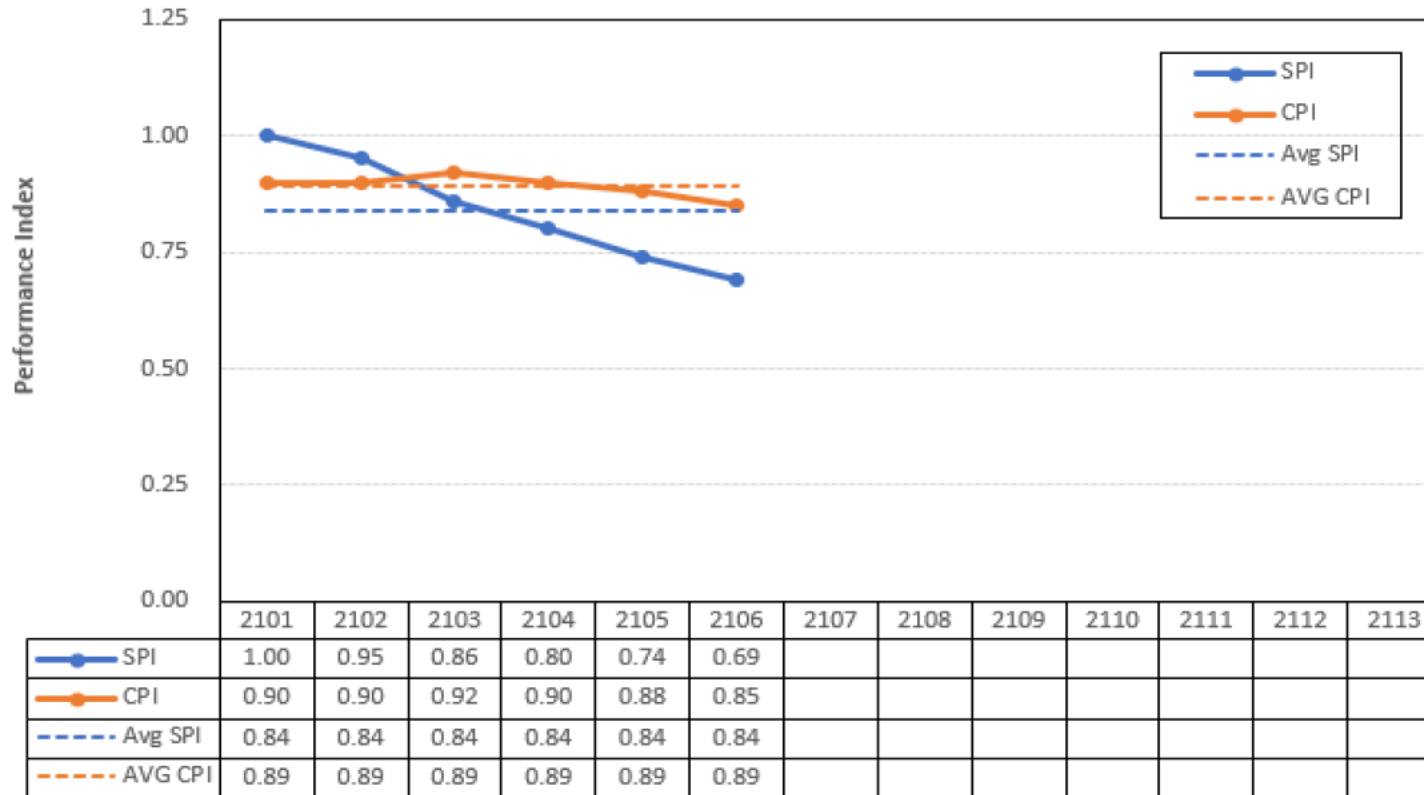
- **Progress reporting will cover :**
 - **HSE**
 - **Hours spent v plan**
 - **# cables installed**
 - **# installed cable length**
 - **Equipment installed**
 - **# cables glanded**
 - **# terminations completed**
 - **# testing completed**
 - **SOFT report**

[redacted]

[redacted]

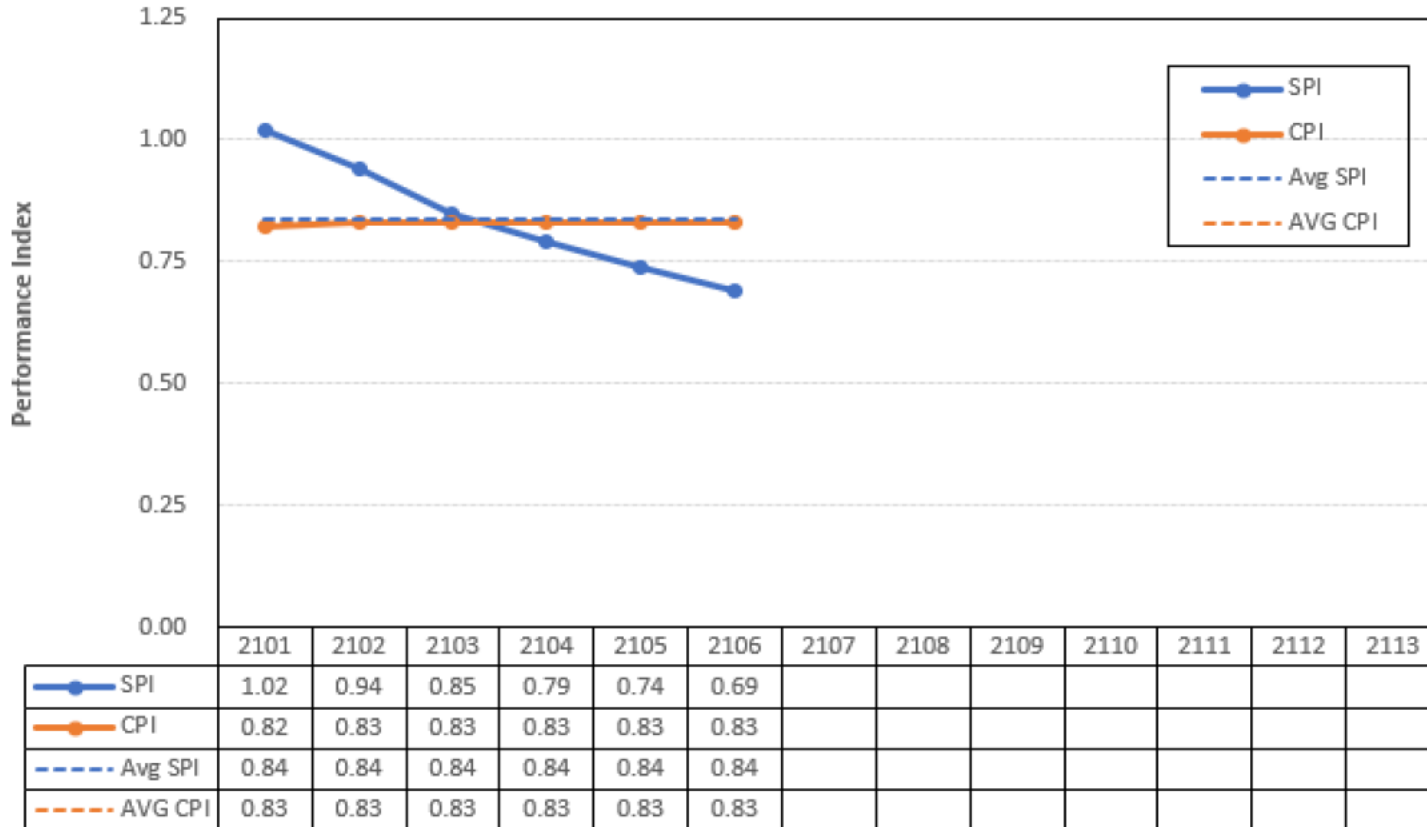
12. SPI & CPI Trends

801 CPI/SPI
2021 Q1 QLA



12. SPI & CPI Trends

802 CPI/SPI
2021 Q1 QLA



13a. Procurement Update – Subcontractors

Supplier	Scope of Work	Forecast contract date	Status
[redacted]	Electrical design and commissioning	August - DONE	Contract executed 27 Aug'20 and POs issued for equipment and commissioning of both 801 & 802. Comms cabinet mods, navigation equipment and VDRs complete. Switchboard mods on PO. PMS integration discussions ongoing.
[redacted]	Accommodation outfit	September - DONE	Contract executed 09 Sep'20 and POs issued. Programme dates for manufacturing and installation shared and aligned.
[redacted]	HVAC	October - DONE	Contract executed 10 Oct'20 and POs issued. Programme dates for manufacturing and installation shared and aligned.
[redacted]	Power and Propulsion Equipment	November - DONE	Contract executed 19 Nov'20 and POs issued. Additional long lead time equipment ordered. UK resources performing condition survey of equipment – commenced November. Engine survey just concluded, with LNG and propulsion required in March.
[redacted]	Fire Systems	December - DONE	Contract executed 22 Dec'20 and POs issued for design, equipment supply and commissioning. Engineering on going. No major long lead items of equipment.
[redacted]	Pipe Fitting Services	December - DONE	Contract executed 18 Dec'20 and POs issued. Installation programme agreed with commencement of work in Feb21.
[redacted]	Cryogenic Pipework	February - WIP	Technical requirements have been finalized with [redacted] and a PO can now be placed.
[redacted]	Stern Ramp, Clam Shell Doors & Car Deck Ramp Inst. & Comm. Support	March - WIP	Equipment delivered and available at site. [redacted] to provide installation and commissioning support. This has already been paid for by FMEL. Meeting to restart relationship scheduled 26 Feb 21.

13b. Procurement Update – Public Tenders

Supplier	Scope of Work	Forecast contract date	Status
[redacted]	Pipe manufacture - subcon	September - DONE	3 providers selected from 10 bids. Contract award issued and published on PCS on 14 Sep'20. All 3 suppliers are mobilised to support volume profile. Subzone deliveries in line with schedule.
[redacted]	Contract Labour	October - DONE	4 providers selected from 14 bids [redacted] Contract award issued and published on PCS in Dec 20. Project now handed over to Operations/HR for Resource Management.
[redacted]	Cable installation and termination	December - DONE	Contract award issued and published on PCS in Dec 20. POs issued for 801 survey, initial team and site mobilisation. 801 survey completed pending final report. PO's to be issued asap due to rising copper pricing.
[redacted]	Hydraulics equipment and commissioning	April - WIP	ITT stage 1 completed with short list of 5 selected from 11 submissions received. Stage 2 released in Jan 21 with 3 bids received by deadline. Evaluation in process with supplier selection expected in Mar 21.
[redacted]	Pipe Fitting Services	April - WIP	ITT launched on PCS on 05 Jan 21 with 5 bids received by deadline. Moderation completed this week with 3 from 5 bids selected. Process to be concluded, including framework agreements by early Apr21.
[redacted]	Raw Materials - Metals	May - WIP	ITT was launched on PCS wkc 28 Jan 21. Process to be concluded by May 21.
[redacted]	Structural Insulation	June - Pending	Scope and commercial model has been finalized. ITT to be issued on PCS early Mar 21.
[redacted]	Pipe Materials	June - Pending	ITT to be launched on PCS early Mar 21.
[redacted]	802 Steelwork Packages	July - Pending	ITT kick off scheduled this week.

13c. Procurement Update – Outsourcing

Supplier	Scope of Work	Forecast contract date	Status
[redacted]	Plate Forming – Double Curvature	January - DONE	PO released in Jan 21 for forming of 131 plates across 8 units. Weekly multi-functional review to keep work on track. Deliveries scheduled in drops across Apr to May 21.
[redacted]	Fabrication – Walkways 801- Zone 0202 & 0203	December - DONE	4 deliveries – 01 March, 15 March, 29 th March & 12 th April. First batch of 10 assemblies currently being painted.
[redacted]	Fabrication – Aft Mast (Aluminium)	February - WIP	QA/QC visit lined up with [redacted] for Thursday morning. Lloyds are happy that is sufficient. Delivery quoted as four weeks from receipt of materials which should be available on Friday the 26 th Feb.
[redacted]	External Handrails	February DONE	Delivery due 1 st April.
[redacted]	801 – Stairs	February - DONE	Delivery due 4 th March.
[redacted]	801 – Further Stairs	March - WIP	Further 12 off stairs to be fabricated. 2 drawings being developed by FMPG and 10 by [redacted]

14a. Risks – Top 10

	Risk Description	Controls in Place	Current Impact	Current Likelihood	Current Risk Score	Action Planned	Risk Owner	Change explanation
88	COVID-19 - there is a risk that the ongoing effect may impact the yard or its suppliers	Revised onsite social distancing and mask policies New amenities brought in to allow for increase in labour Most office staff now working from home	50	5	250	Monitor situation and enforce policies Limited return to production work from 25th Jan Full production work expected to start 1st Feb	[redacted]	All production staff return to work 08/02. Planning team has returned to work
37	Late delivery of 801/802	Risks associated with late delivery are captured elsewhere in the risk register with planned controls.	50	5	250	1. Include a time allowance for programme slippage 2. To be reviewed due to production suspension, 801 drydock extension, and labour shortfall		Potential programme impact to 801 as a result of poor hull paint system requiring extension to second dry docking Concern around labour and production suspension impact to programme
85	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 Allowance against market rates reviewed.	50	5	250	1. Include allowance for potential increase 2. Part of annual wage negotiations 3. Develop the programme resource demand 4. Produce a yard resource plan showing all projects 5. Develop a resource supply strategy 6. Assumes subcontract labour will be provided at		1. Increases are included in the wage negotiations. 2. In progress 3. This is being undertaken by [redacted] 4. Produced by planning but not effective and needs rework.
70	Insufficient capacity for pipe manufacture and installation to support the programme	Programme demand from plan based upon installation rates and compartment capacities Pipe painting facility set up in Greenock to complete painting of bought-in pipes	50	5	250	1. produce plans for subcontract of pipe manufacture - plan shows pipe made out company only closing pipes 2. produce plans for permanent and contractor installation labour plan based on yard install 3. Produce specific plan for manufacture and installation of hydraulic pipework required to be out contracted		[redacted] Further ITT for installation.
38	Programme launch date of 802 not met	Risks associated with late launch are captured elsewhere in the risk register with planned controls.	50	5	250	1. Include time allowance for programme slippage (same as late delivery) 2. To be reviewed due to production suspension and labour shortfall		Currently linked to 801 programme. To be reviewed

14b. Risks – Top 10 continued

	Risk Description	Controls in Place	Current Impact	Current Likelihood	Current Risk Score	Action Planned	Risk Owner	Change explanation
14	Level of rework not sufficiently scoped. Known rework not fully scoped. Unknown rework will occur particularly during the test and commissioning phase	CNs and 200 series included in programme Change control process implemented. OORs incorporated into model	50	5	250	1. Completion of re-baseline evaluation 2. Allow additional time in the commissioning programme	[redacted]	Rework is being separately identified through planning rework codes There is further rework being identified on 801 in the vehicle deck compartments OORs being reviewed 02 pipework rectification near completion Public Procurement process is embedded in the business.
84	Impact to the programme of the implementation of the Public Procurement process	Procurement plan in place	50	5	250	1. Increase procurement headcount 2. Allow for time in the programme		
55	Failure of equipment during warranty period. Supplier guarantees have expired	Warranty controls and spreadsheet is live to allow ongoing review of current position	50	5	250	Warranty review meeting completed and information shared on all live warranties: where warranty is no longer able to be extended [redacted] a care and maintenance plan will be put in place.		[redacted] back on contract. Survey's ongoing to define care and maintenance required.
46	Vessel cannot meet contract deadweight	Lightship weight continues to grow	50	5	250	1. Continue to limit weight growth wherever possible and practical 2. Commercial impact subject to the contract provisions		Weight calculations ongoing. [redacted] will be contracted to supply information for newly modelled items.
22	Workpackaging arrangements not robust enough to control properly the work sequence and capturing performance	Work packages for fabrication, hotwork and pipe manufacture are now being issued with material identified. Kitting of pipes for 0201 completed	50	5	250	1. Introduce a process for workpackaging 2. Improve the organisation to deliver the new process		External piping manufacture for 02 complete, 03 and 04 on order with delivery expected mid February/end March

[redacted]

16. Weight

	rev 20	rev21	REV22	Difference
Group 1-1 Hull Steel	1543.5	1543.5	1543.5	0.0
Group 1-2 Misc. Steel	142	141.8	141.8	0.0
Steel Margin	0	0.0	0.0	0.0
Total Steel	1686	1685.4	1685.4	0.0
Group 2 S/S Aluminium	177.4	177.4	177.4	0.0
Aluminium Margin	0	0.0	0.0	0.0
Total S/S Aluminium	177.4	177.4	177.4	0.0
2-4 Paint	33.16	33.2	33.2	0.0
Group 3 Cargo Equipment	185.9	185.9	187.4	1.5
Group 4 Ship Equipment	183.1	183.1	184.2	1.1
Group 5 Accom. Outfit	564.7	564.7	567.6	2.8
Total Outfit	933.8	933.8	939.2	5.4
Group 6 Main Machinery	295.4	295.4	295.4	0.0
Group 7 Machinery Systems	178.8	178.8	178.8	0.0
Group 8 Ships Common Systems	248.5	248.5	248.5	0.0
Total Machinery & Electrical	722.7	722.7	722.7	0.0
Lightship	3552.6	3552.4	3557.8	5.4
Margin	1.8	2.0	-3.5	-5.4
Lightship with margin	3554.4	3554.4	3554.4	0.0
VTC change	-21.35	-21.4	-21.4	0.0
Actual	3552.6	3552.4	3557.8	5.4
Allowable	3554.4	3554.4	3554.4	0.0

Since January the [redacted] has been validating the information handed over from the [redacted]

The focus has been on the outfit weight estimate. This had more estimates than the other weight groups which are generally better tracked back to reference information.

The team have been creating a far more detailed weight calculation that allows us to track weights at SFI or compartment levels. So far 75% of the equipment information from [redacted] has been checked at the item level (+180 tonnes worth of items).

Pipe wet weights are not currently included.
Some [redacted] items are not yet included.

An additional [redacted] will join the team on the 15th March to support this and the stability calculations work.

[redacted]



17. CMAL Comments to the Monthly Report

CMAL Comments:

No CMAL comments for this month

17. Appendix

801/ 802's QLA

- QLA's are now kept in the same folder as the Monthly progress report.