

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

Programme Director: [redacted]

Review Period: June 2021

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





Month: May 2021



Monthly Cumulative Safety Statistics

Title	This Month Figures	Cumulative
RIDDORS	0	0
Fatality Case (Fatal)	0	0
Lost Working day Case (LWC)	9	9
Medical Treatment Case (MTC)	3	4
First Aid Case (FAC)	12	26
Property Damage (PD)	0	0
Near Miss (NM)	0	0
Fire Incident (FI)	0	0
Environmental Incident	0	0
Total Number of Recordable Injuries	1	1
Total Number of Days Lost	6	6

Date: 21.06.21

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

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

- 1. RIDDOR. No Incidents Reported
- Medical treatments 1 incident 1 head injury 801 cable space area, 1 Ankle Injury Module shed, 1 neck injury top shed.
- 3. First Aid 12 incidents 1 cut head, 1 Back injury, 1 debris in eye, 7 cut finger, 2 cut hand
- 4. Fire incident Nothing reported.
 - 24/7 fire watch patrols being maintained.
- 5. Environmental incident no environmental incidents occurred in month.
- 6. Near Miss None reported

Learnings from previous events

- Electric shock Jan occurred during bulb replacement due to unseen breakdown in cable protection

 Whilst all normal precautions had been taken, limited experience of building condition (Greenock warehouse), meant electrician not aware fault existed.
- Slipping incidents Feb Slipping incidents both occurred on vessel access walkways due to
 inclement weather. Additional gripper tape applied to fix.
- Head injuries March In both cases scaffolders helmets fell off during low level task due to lack of situational awareness - retrofit chin straps provided to all scaffolders and available to others working at height.
- Rib Injury April Engine room on 805 due to insufficient care & protection around a void space that
 was open. As a result the IP fell banging his side on the screws used to locate tank lid –correct barriers
 installed and all personnel reminded of the importance of ensuring that no tank lid is removed and left
 unattended until the correct care and protection is implemented.

3. HSE Activities

Description	This Month	
Site Safety Inspection	3	 801 & 805 Walks include SMT member, Sub-contractor and or Union Representative. Continue to review the current site COVID-19 controls
Policy/ Paperwork/ Process Reviews	1	 Permit to Work evolvement into Integrated Safe System of Work using 'Worksafe' software – on site assessment, to confirm a good fit with our needs, completed mid May. Next step is to arrange technical briefing for 'permitting team Upcoming site lifts now formally considered during dedicated review meeting, held weekly. Question set developed to test understanding of personnel attending H&S Induction New Health & Safety Policy, incorporating arrangements and responsibilities to be submitted for sign-off (by Turnaround Director).

4. HSE Initiatives

Description

H&S dept continue to identify, change & improve current processes, procedures & safety culture throughout the vard.

H&S Director and Turnaround Director continue to meet bi-weekly to discuss progress and align on next steps. Bi-monthly updates presented (via MS Teams) to the Board

Monthly Safety Committee continues with selected department attendees on a rotational basis. Safety walk now taking place, prior to meeting.

Agreement has been reached, between H&S and the Training Manager, regarding which roles should undertake which Health & Safety training modules. This is captured in a clear matrix. This includes Apprentices. NEBOSH training, to be attended by Head of Ops direct reports has been scheduled. The Director of Compliance will also attend, in order for him to take overall responsibility for HSE, with support from the permanent Head of HSE.

Emergency Response Team training. including Confined Space Rescue & Rescue from height with support from Mines Rescue Safety Training continues. Approx. 75% of the team have received this refresher training. Marine Safety Training (capability to rescue someone from the water) booked for 6 members of the ERT, mid June Data collection, as input for provision of Accident Frequency Rate, now in place (includes FMPG and all its sub-

Process to source a suitable permanent candidate, for the role of Head of HSE continues. Final interview with senior team members, arranged for preferred candidate. Offer accepted by external candidate for permanent HSE Advisor role, to start end of June. New Trainee HSE Advisor, settling in well, as part of the team

Awaiting acceptance of offer, for the new role of Lifting & Rigging Manager (to take responsibility for all lifting activity in the yard and on vessels). Role will report to Facilities Manager with a dotted line (for governance), to the H&S Director

Combined HSE/HR & Union Information boards are being prepared for installation across the site. This will improve the quality and presentation of the information, including controls to ensure boards are regularly updated.

We are starting to see evidence of a positive impact of recent new hires into the business. Specifically: Training, <u>Pipeshop</u>, Manufacturing and Facilities Managers This is relevant as they are generally bringing a more professional approach and personal attention to improving H&S safety in their areas of responsibility.

The planned start of Foreign workers in late May, was completed effectively, including adherence to <u>Covid</u> controls.



2. Contract Summary

Customer	Scottish Ministers	Contract Start	Contract Effective Date - 1st April 2020
Agreed Contract value	£110.3M	Contract Finish	801 [redacted 802 [redacted
Project Type	Design and Build	Forecast Finish	801 [redacted 802 [redacted
Project Director	[redacted]	Contract Type	Fixed Price

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. from the date of 16 th August 2019, being the date of Administration of FMEL
Significant Project Changes	None (in this phase).
Acceptance Criteria	As per the specification.
Payment Terms	Monthly payment application for Actual costs incurred in the previous calendar month
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	Tr		
Health & Safety	Through the project	[redacted	 Formal Gap Analysis completed Dec 2020), to de-risk business, through introduction of appropriate safety controls and arrangements. This should provide the basis for a recognised management system Progress against identified shortfalls is reviewed bi-weekly with Turnaround Director and every 2nd month with Board.					
Quality: right first time, dimensional control, care and maintenance	Through the project	[redacted]	 Appointment of Compliance manager to integrate QC team with planned activity and support Operational teams Calling notice and reporting protocols establish Patrol and monitoring surveillance PotD Progressive acceptance of Legacy mechanical system installations signed off by all stakeholders 801 structural comple ion surveys supporting operations Preservation and reactivation ac ivity ongoing Client site team/Class surveyor weekly washup meetings implemented 					
Work packages are issued with associated information and materials	June 20	[redacted]	 Inventory is loaded into the stores management module on [redacted] Inventory can be coded to align with P6 plan Work packages for fabrication, hotwork and pipe manufacture are now being issued with material identified. A diary programme has been issued and will be used to manage the detailed workpack progress. 					
Commissioning & Sea trials		[redacted]	Integration with build Resource Test forms Ability to source LNG sea trials crew	Plan is being updated to include commissioning activi ies Test forms have been started	O	‡		
Technical information is produced on time and change is minimised	Through the project	[redacted]	Holds are cleared prior to required release of AFC2 issue drawings Legacy drawings identified prior to planned requirements, checked, issued and material requisitioned. Scope of work to complete understood and planned Document Control in place to facilitate access to the correct drawings Minimise change by confirming basic design is compliant	Lists of legacy drawings identified and being checked Ship surveys may be required for addi ional areas. Document Control being established in sharepoint – seeking external resource to set this up. ICRs are being targeted over next 4 weeks with an ambitious plan to close all 160.	A			
Control of change is a properly managed process		[redacted]	 An overall change process is in operation. A detailed process for stop work to be implemented across he business. An overall change process has been operating for some months, however there is now a level of change appearing from the i reda field engineering team requiring stop works. The detailed process for managing this is being finalised 			\leftrightarrow		
Customer relationship is positively maintained throughout the project	Through the project	[redacted]	Regular dialogue at all levels, monthly reviews, ad hoc meetings We propose a Rules of Engagement to be agreed to clearly define how CMAL and FMPG will work together. OOR process under review and will be working with CMAL to review legacy OOR's.		A	→		
Subcontractors are effectively integrated within the programme		[redacted]	POTD, weekly and monthly reviews Fortnightly HSE review Subcontractors have been kept involved in rebaseline activity Timing of issue of rebaseline has generated need to re-align Subcontractor plans to ours		Forming of issue of rebaseline has generated need to re-align Timing of issue of rebaseline has generated need to re-align		A	<u></u>
The project is properly resourced with: Production management & supervision Production labour	April 20	[redacted]	Accurate resource forecasting from the schedule and a resource strategy in place 60 reducte on site by 2nd July.		А	↑		

4. SOFT Report



Successes	Opportunities
 The structural insulation public procurement has been concluded and contract is now signed. 802 outfit steel packages are currently in manufacture. Improved dimensional control using 3D technology. Units surveyed to date; 82, 83, 83, 73,74 and 75. Providing first time fit capability to production. Workpack diary process rolled out and starting to take effect. GMES agency labour is working well and keeping the plan on schedule. Pre-Stainless Steel Weld procedures now complete. Internal Audit Schedule established with revised Non-Conformance Management. 	 Build strategy review for 802 to build as blocks for wheelhouse and bow units prior to erection at ship Automated welding has progressed on 802, withy several join-ups now complete and the up-skilling of welder with this process
Failures	Threats
 The impact of the suspension of production work, labour shortfall and the extension to the 801 drydock has required a review of the 801/802 programmes. With the resourcing solution agreed the programmes have been finalised and submitted to SG for review and agreement. The technical proposal for 801 hull paint repair has not been agreed with CMAL. A way forward has been agreed and a dry dock specification has been issued for agreement. Penetrations and axilocks were not designed in accordance with the requirements. We have identified the failures and have a process for redesign, approval by Lloyds before issue of the work to the ships. Rework for pens is likely to be minimal (limited to legacy VN penetrations typically). The OOR process is not working and is under review. 	COVID 19 impact to programme—Further issues/restrictions remain a threat to the programme. This risk is diminishing as restrictions levels are lowered. Weight report — full review of the report is currently underway using reducted generated data and validating [redacted] data where possible. This may have a weight growth risk. NA team are progressively validating the estimate as discussed with CMAL in May review meeting. Cryodiffusion delay in getting [redacted] on contract may impact LNG pipe installation programme. Scopes of work have been agreed. First delivery is being reported as available at site in week 28. Equipment information loaded on [redacted] does not align to the reductive equipment list. A full inventory is underway, circa 50% have been aligned to the equipment list. Absence of MCA sign off for aluminium bulkhead HVAC penetrations is a threat to progress. Level of change arriving as a result of field engineering review.
Impact Statement / Help Needed	

5. Traffic Light Report



		Overal	l Status		Future							
Criteria	Mar 21	Apr 21	May 21	Jun 21	Trend	Comments						
Overall Status	R	R	G	G	\leftrightarrow	Re-baseline plan has been submitted to SG and waiting for the plan release.						
Safety	А	А	G	G	\leftrightarrow	 Additional H&S resources (permanent Head of HSE and 2 x H&S Advisors) being recruited, with a trainee having now started. Offer accepted by 2nd (external HSE Advisor). Their role is to provide support to further improve H&S on vessels under construction and across the yard. Priority H&S actions continue to receive attention. 						
Quality	4	G	G	O	\Rightarrow	 Quality Progresses to Green and follows the natural progression of understanding the quality issues and route to closure, Legacy pipework quality controls delivering repeatable results with Client progressive sign off now established. QC to support for weekend working established 801 and 802 reactivation activities continuing with successful results. Formal Wartsila Engine survey received, Cumings now arrived on site 1st June Care and preventive Maintenace steering group set up between Quality/Commissioning/Operations/Facilities Dimensional control surveys with Specialist contractor underway Double curvature plate being delivered by CentralStaal resulting in successful assembly program Weight control process underway. Continuous improvement developments still highlighted. QC now enquiring at Plan of the Day Meetings for a list of items to be weighed for that day. 						
Customer Relationship	O	Ø	G	Α	→	 We propose a Rules of Engagement to be agreed to clearly define how we will work together. OOR process under review and will be working with CMAL to review legacy OOR's. 						
Schedule	R	R	G	G	\leftrightarrow	Re-baseline plan has been submitted to SG and waiting for the plan release.						
Finance	G	G	G	G	\leftrightarrow	 Project Cost EAC remains within target at £110m. Cost forecast being reviewed in fuller detail to reflect the re-baseline exercise carried out in the month, and reflected next month once re-baseline schedule confirmed 						
Technical	А	А	Α	А	↑	 LR / MCA approvals is ongoing Design verification completed; many issues found, typically poor documentation. Stability calculations are progressing as per the NA team plan. 						
Suppliers	G	G	G	G		 Structural Insulation ITT now at award. Mini competition tender on Pipe Installation for Zone 4 (801/802) and Zone 2 (802) is in process with PO's to be place in early July. Steelwork Services ITT is now ready for release on PCS. Multiple packages of fabricated seats to be outsourced through PCS Quick Quote. 						
Resources	R	Α	Α	Α	\leftrightarrow	Rebaseline required to update resource demand. 60 [reducted]employees on dite by 2nd July.						
Risk Management	R	R	R	R	\leftrightarrow	The risk register and risk review process have been identified for Process Review and Improvement.						

6. Owners Observations



- Process Review
 - · now underway including:
 - Receipt acknowledgement;
 - Action allocation;
 - Forecast response date;
 - Formal response;
 - Agreed closure of OOR.
 - Project Management, Quality, Engineering and Operations all engaged
 - Further meeting scheduled for 24 June
 - Update on progress to be included in next pack
- Review of Legacy OORs to be progressed in parallel

7. Quality



Dimensional Control & Survey

Ferguson Marine's Lead Surveyor now has begun surveying along side the 3Di Surveyor. This starts the transition of Survey work being performed in-house.

A second Ferguson Marine surveyor is scheduled to start by the end of July.



Stainless Steel Welding Procedures:

Stainless Steel procedures now complete. Samples currently at Babcock Technology for Radiography Tests. Mechanical Stress testing is underway.

Welder coding will commence upon completion of [redacted] Mechanical Testing.



Weight Control Process:

Cross functional team established to improve the process Equipment review conducted and 2 load cells have been procured. Created documentation to records the required data.

Next Steps-

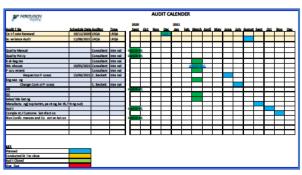
Quality lead will request confirmation of what will be weighed at each \mbox{PLOD} meeting.

Process to be written, trialed and finalised



Proof of load rate carried ear, on famed using \$752 Fee: Side.





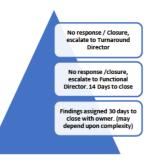
ISO Audit Schedule created to ensure audit coverage and compliance to the schedule.

This will continue to be developed as a more Internal Auditor are identified in the business



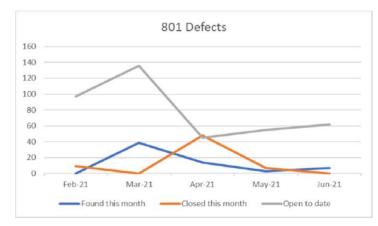
Non-Conformance Register established to record and track findings (<u>not solely exclusive to Audit findings</u>),and closure with department leaders.

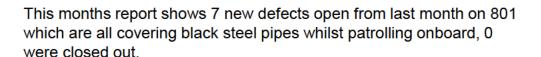
- · Ownership to close findings
- Target completion dates assigned
- · KPI created to monitor closure rate



7. Quality 801 & 802

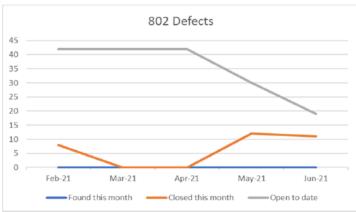






801 has seen surveys on mast and funnels continued bringing class and client to witness this with a minor markup noted.

MPI has been carried out on aft mooring deck bollards



There has been 0 new defects opened on 802 although 11 have been closed out covering care & protection. Defects are still continuously sent every Monday to ensure complete visibility of those remaining open and would encourage these to be worked through to reduce numbers

802 we have been working alongside welding dept to begin preparing linkups bringing them back to weldable standard carrying out pre-fit up checks.

Units 73, 74 & 83 have all been surveyed throughout build to ensure compliance, Lloyds have witnessed 73 & 74 & 84 and will be visiting 83 on Tuesday.

7. Quality

Problem Statement:

What: On Vessel 801, Deck 5 Deck Head, CMAL has reported their findings of Insulation being fitted without the Pre- Insulation checks being performed. No formal approval to proceed with the insulation.

When: Wk 18

Where: Vessel 801, Deck 5, Deck head

Impact: No formal approval to proceed with the insulation. Risk of rework,

Incomplete work being hidden

Investigate the cause using 5 Why's

WHY? - Insulation Installed prior to visual inspection being performed

WHY? - No validation or confirmation that the compartment had been signedoff of prior to work commencing

WHY? - No Request for Inspection had been submitted to QC to conduct a Visual inspection of compartment

WHY? - The Request for inspection process had not been followed.

WHY? - No documented process in place.

Corrective Actions

- A Hold Point will be added to the Work Pack Diary that will communicate
 to all stakeholders the Pre-Inspection of the Steelwork has to be
 completed prior to fitting the insulation. Once the Inspection has been
 signed off, including any remedial work completed. The signed off report
 will be forwarded to the Project / Operations to release Hold Point and
 schedule work to proceed.
- A Visual representation of the QC status of each compartment to show signed off areas (per previous format, a highlighted Layout plan will be used). Placed within the QC Office to provide updates to the team.
- 3. Create a documented process and communicate to the stakeholders

Why will it correct the problem

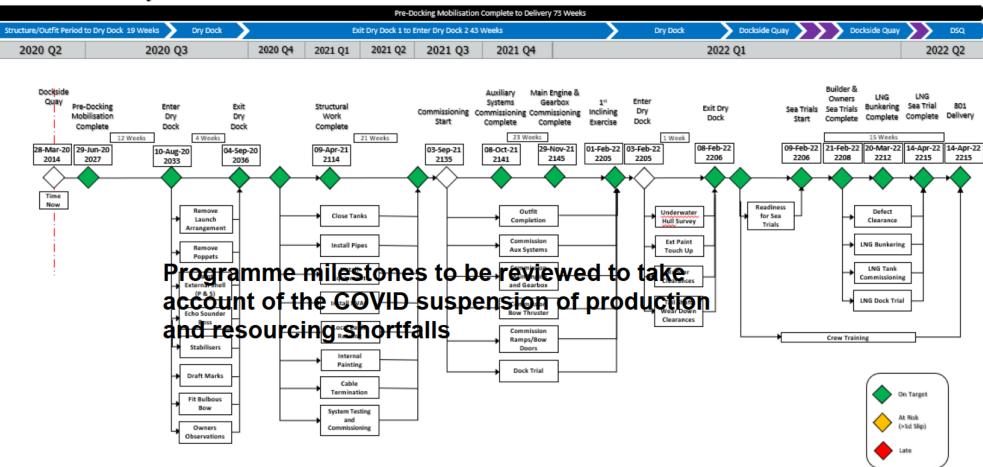
Will provide a scheduled plan to give QC a control point window to perform Pre-Insulation checks. This will communicate the QC requirements to the entire Management Team to ensure compliance to the process.

The marked-up plans will provide a visual representation each day to the management team that the plans are being followed.

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



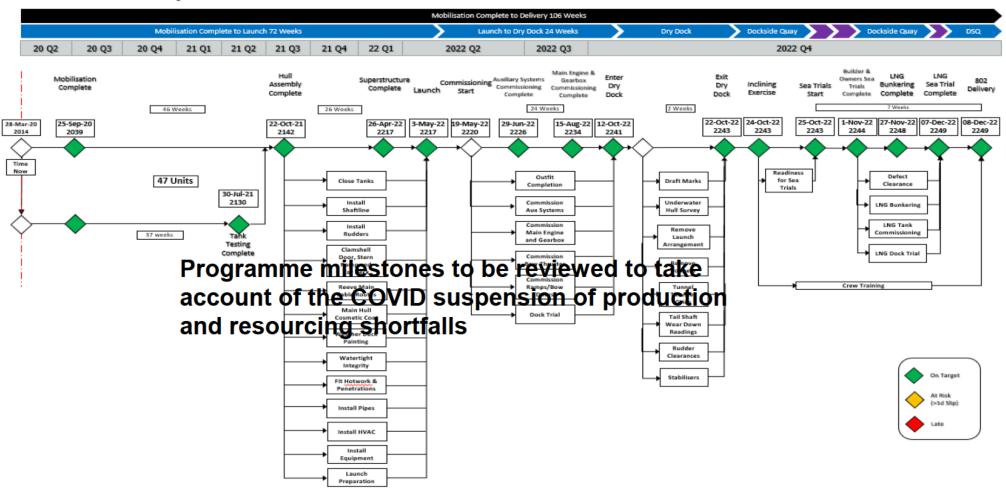
801 Timeline to Delivery



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



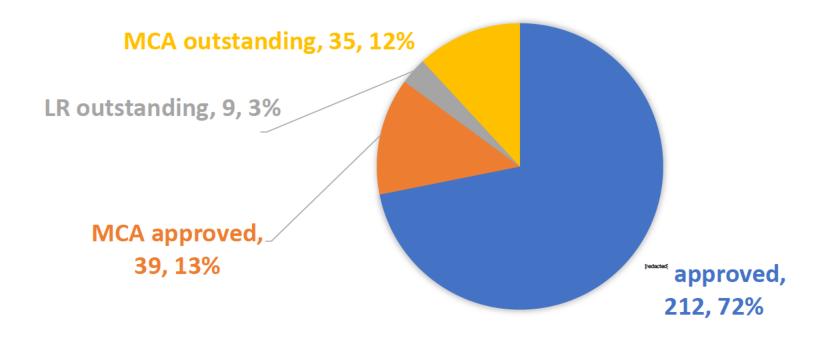
10. Weight

	rev21	REV25	REV26	Difference	Comments/Highlights
Group 1-1 Hull Steel	1543.54	1537.38	1537.38	0.00	
					2.6t decrease in ICCP+MGPS, 0.4t decrease in overall
Group 1-2 Misc. Steel	141.83	138.68	135.61	-3.08	margin
Steel Margin	0.00	0.00	0.00	0.00	
Total Steel	1685.3	1676.07	1672.99	-3.08	
Group 2 S/S Aluminium	177.39	158.81	158.81	0.00	
Aluminium Margin	0.00	0.00	0.00	0.00	
Total S/S Aluminium	177.39	158.81	158.81	0.00	
					Paint is a proportion of the total steel weight, so total steel
2-4 Paint	33.16	32.99	32.93	-0.06	changes from reduced the weight
Group 3 Cargo Equipment	185.89	202.40	202.40	0.00	
					Bow-stern thruster update (0.26t decrease), lifting lugs
Group 4 Ship Equipment	183.13	186.39	188.28	1.89	updated (2.15t increase)
Group 5 Accom. Outfit	564.73	590.17	590.17	0.00	
Total Outfit	933.75	978.96	980.85	1.89	
Group 6 Main Machinery	295.40	295.29	295.29	0.00	
					LNG system 8.04t increase, Fuel oil/bunker p&s 2.77t
Group 7 Machinery Systems	178.84	188.39	193.93	5.53	decrease, 0.27t margin increase
					Cable weight update (4.54t increase from extrapolated
Group 8 Ships Common Systems	248.47	248.47	253.01	4.54	items)
Total Machinery & Electrical	722.71	732.15	742.23	10.07	
Actual Weight of the Lightship	3552.38	3578.97	3587.81	8.83	
Margin weight (positive values)					
Excess weight (negative values)	1.97	-25.62	-34.46	-8.83	
Target Weight of the Lightship	3554.35	3553.35	3553.35	0.00	
Certainty of the lightship	89.79%	92.04%	92.39%		
Deadweight tonnage	877.95	877.95	877.95		
Displacement tonnage reading at 3.45m					
with 1.025t/cbm (Contract)	4431.3	4431.3	4431.3		
1 000001					1

- Detailed weight review held with CMAL on Thursday 27th May. No errors or omissions noted in the calculation.
- Actions agreed were that FMPG should continue the detailed validation of estimated weights by contacting OEMs and weighing items on site. This will allow assessment of the contingency weights.
- Detailed assessment of LNG and fuel piping systems in last month caused an increase, note the contingency has not yet been reduced.



11. Engineering – Basic Design Status



30 electrical drawings previously approved by reduced have been resubmitted following updates. These are still counted in the 'reduced approved' total. It is expected that these will be approved again without issue.

18 drawings counted as "MCA outstanding" were submitted to MCA at the end of April and we have not yet had a response. MCA workload is beginning to cause issues for our team.

11. LR outstanding



- Freeboard / External Watertight Integrity Plan
- Forward Mast Plan Frames 111-118 Structural Details
- Cargo Securing Manual
- Echo Sounders, speed log and Draught Gauges
- Nitrogen System
- Glycol System
- Steelwork Standards
- Damage control plan
- LNG System For ME & DF Gen Sets

Green have been submitted recently

11. MCA outstanding

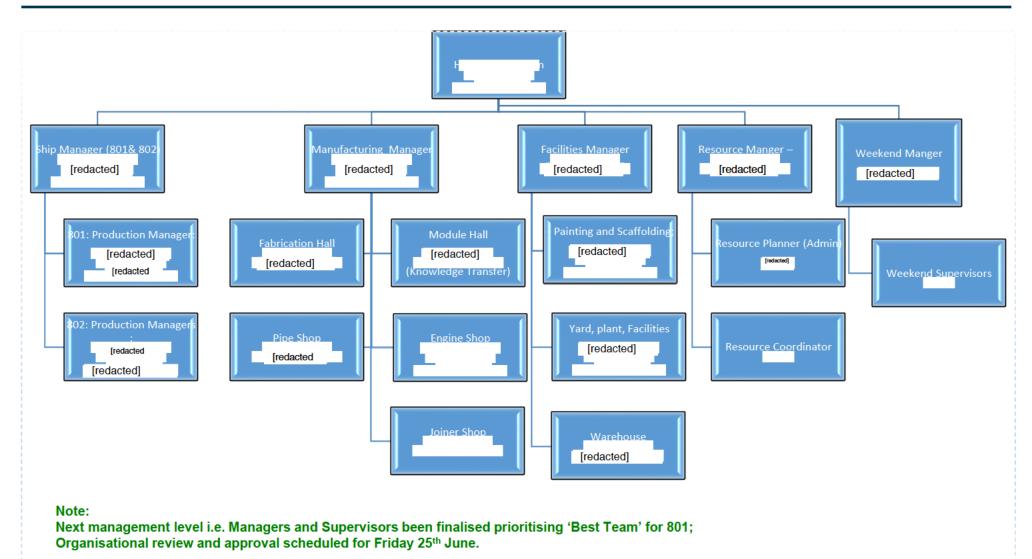


- HVAC Ducting Arrangements for 1002
- HVAC Penetration Plan for 1002
- Ducting & Instrumentation Diagrams (4)
- Location Drawing Emergency Light System
- Layout Drawing Wheelhouse console
- Topology Drawing Integrated Navigation System
- CABLE BLOCK DIAGRAM-INTEGRATED NAVIGATION SYSTEM
- Power distribution drawing integrated navigation system
- Certificates Multi Cable Transit
- Tank & Capacity Plan
- Life Saving arrangement
- Fire Control Plan
- Escape Route Plan
- Accommodation Layouts
- Gangway Davit Seat Details
- Insulation Data Certification

- Machinery & Save all Drains (already approved by Lloyds)
- Gas Detector Layout
- Sludge & Waste Oil System (already approved by Lloyds)
- Fire and Deck Wash System (already approved by Lloyds)
- 801 Basic Intact Stability Information
- · Preliminary Trim & Stability Book incl. Longitudinal Strength
- Preliminary Damage Stability Book
- Keel Readings (already approved by Lloyds)
- Gangway Davit (already approved by Lloyds)
- Fire Door, Damper & Patrol Point Monitoring
- Fire Detection General Arrangement
- Fixed Fire Extinguishing Syst. (3)
- 801&802-LNGPac Operating & Maintenance Manual LNGPac-H149-D9

12. Operations: Organisation Chart





12. SOFT Report: Operation Management



Opportunities Successes Ship Build: Ship Build: • 801: Work Pack Diary targets being met & closed out on time . Production LFE from structural completion activities to be used on 802 – now in progress team adapting well to new process with car deck recess scope (Project Leads: [redacted] · 801:Installation of walkways underway and progressing well, 2nd batch now onsite which [reducted] have started Pipe LfE in place taking LFE from 801 onto 802 lead by [redacted] 802: Opportunity to fit walkways in critical areas at an earlier stage, LFE 801: Installation of equipment relating to critical path now progressing in Z2 noted from 801 install. (generator room) • 801 & 802: [roduction] now fully embedded into our core team, progressing well 801: Pressure testing of pipes to be brought forward in the plan for zone 2 & 3 on contracted scopes (801, 802, manufacturing) (in Progress) 802: Automation welding progressing well with great feedback from the Quality team . (training guy in Manufacturing; Manufacturing: Manufacturing: · Work pack process to be streamlined Aluminium units 3/5 and 5/5 structure complete – outfit started; Window outfit on 3/5 and 5/5 fredacted Hull outfit seats complete and sent to store and final outfit work pack Set up module for sub assembly for Unit 4/5, 4/6 and 47 for complete Sub contract hull outfit seats for 801 and 802 to allow unit build by zone; 65 pipes per week kitted at Greenock store Start POTD in the pipe shop Unit 84 complete and ready for ship delivery Unit 73 and 74 QC survey completed passed right first time Pipe Shop completed 801 23 spool work pack Warehouse Ducktail jig burned ready to start build · Greenock Warehouse reconciliation Mega block kick off – build strategy Greenock Warehouse utilisation ongoing (i.e. Capacity Review). Warehouse layout consolidation of all 801 & 802 materials. Facilities Min/max PG stores WIP [redacted] in for the construction of the new office building Clearing space in PG facility Created space for a kitting area to address work packs for pipe material Resources Allocation of Apprentices Resources New attendance roster implemented successfully.

12. SOFT Report – Operation Management



Threats
 Ship Build Pipe Pen Changes for zones 2&3 impact and condensing programme – catch-up programme to be defined; MCA - HVAC. Awaiting final approval; Chemical Flushing currently not planned into critical path – Working [redacted] to define way forward;
 Manufacturing Resource for unit build? Review swap with ship resource, ensuring correct balance; Time sheet entry – Supervisors been monitored and trained to ensure accurate bookings;
Facilities • Footprint of Port Glasgow • Electrical capacity in FMPG
Resources • Attrition rate of resources on the weekend shift



13. Planning Status

General Status:

- The programmes have now been re-baselined and have been signed off internally. These have been submitted to SG on 31st May.
- The workpack diary has now been issued for 801 and manufacturing and is being progressed.
- [redacted] will take on 801 planning.

13. Ship 801 Critical path

Activity ID	Activity Name	OD	RD Start	Finish	BL Project	BL Project	Total Float A	20	Otr 1, 20		Otr 2, 202		Otr 3, 2021		Otr 4, 203			, 2022		Otr 2, 2022	
					Start	Finish		Dec	Jan Feb		Apr May utfitting Man		Jul Aug	Sep Oct	Nov	Dec	Jan Fe	eb Ma	r Apr	May	Jun
801MANHO0203	SZ 0203 Hull Outfitting Manufacturing	30d	10d 11-Jan-21 A		11-Jan-21	19-Feb-21	-15d		\$2.02			, , ,	Manufacturing								
801MANHO1111	SZ 0202 Walkway Manufacturing	66d	61d 11-Jan-21 A	-	11-Jan-21	14-Apr-21	-22d				- Fit Compan										
801PfS0203Hvv01	SZ 0203 - Fit Compartment Hotwork	30d		26-Feb-21	18-Jan-21	26-Feb-21	-15d				203 Pipe Deta										
801DPTPW0203	SZ 0203 Pipe Detail Planning (1559 off)	40d	40d 18-Jan-21*	12-Mar-21	11-Jan-21	05-Mar-21	-19d			32 0			Manufacturing	_							
801MANHO1121	SZ 0203 Walkway Manufacturing	66d	66d 18-Jan-21*	21-Apr-21	11-Jan-21	14-Apr-21	-20d		<u> </u>		_		partment Walk			-ii-					
801PfS0202Hw4	SZ 0202 - Fit Compartment Walkways (Hotwork)	62d	62d 25-Jan-21*	22-Apr-21	25-Jan-21	22-Apr-21	-22d						ompartment Walk								
801Pf90203Hw4	SZ 0203 - Fit Compartment Walkways (Hotwork)	66d	66d 01-Feb-21	06-May-21	25-Jan-21	28-Apr-21	-20d			: :	SZ 0203 P			aikways (no	otwork)						
801MANPP0203	SZ 0203 Pipe Manufacturing	39d	39d 15-Feb-21	12-Apr-21	08-Feb-21	01-Apr-21	-19d		_		_	1									
801PfS0203Hw02	SZ 0203 - Fit Steel/Pipe/HVAC/Elect Penetrations	25d	25d 15-Feb-21	19-Mar-21	15-Feb-21	19-Mar-21	-15d		_	SZ	0203 - Fit Ste	el/Pipe/Hi	VAC/Elect Penet			1					
801InS0203Pi01	SZ 0203 - Install Pipework (1559 off) and Hangers	90d	90d 12-Mar-21	20-Jul-21	05-Mar-21	13-Jul-21	-19d					4	SZ 0203 -		Work (155	59 off) and	i Hangers				
801PfS0203Qc01	SZ 0203 - PFO Compartment Inspections	10d	10d 29-Mar-21	13-Apr-21	22-Mar-21	06-Apr-21	-20d				_		artment Inspec								
801PfS0203Sb01	SZ 0203 - Shotblast and Paint Compartments	20d	20d 14-Apr-21	12-May-21	07-Apr-21	05-May-21							otblast and Pai								
801PfS0202Sb01	SZ 0202 - Shotblast and Paint Compartments	20d	20d 23-Apr-21	21-May-21	23-Apr-21	21-May-21	-22d						Shotblast and F		rtments						
801Pf50203In01	5Z 0203 - Insulate Compartments	15d	15d 13-May-21	02-Jun-21	06-May-21	26-May-21					_		3 - Insulate Con								
/							- nd						02 - Insulate Co 0203 - Fit Cable								
Schedule	 Walkways, Hotwork & Pipever will be reforecast once there following: 						id id id					SZ	0202 - Fit Cable SZ 0203 - Rec SZ 0202 - Rec SZ 0203 -	Tray ve Local and eve Local and install Site i	d Lighting Run Pipes	g Cables					
	-19 Stop Work period						ld !d						5Z 02	03 - Termina 102 - Termin	ate Cable	5					
	-19 Resource restrictions						ld ld							203 - Final E SZ 0203 - Ch	eckwire	ipes					
							:d							SZ 0202 - C		.ji-					
801TeS0203Pi01	SZ 0203 - Pipe Testing	20d	20d 12-Aug-21	08-Sep-21	05-Aug-21	01-Sep-21	-19d							SZ 0203 -		_					
801InS0203El04	SZ 0203 - Band Cables / Pack Glands	10d	10d 27-Aug-21	09-Sep-21	20-Aug-21	02-Sep-21	-20d							SZ 0203 -							
801InS0202El04	SZ 0202 - Band Cables / Pack Glands	10d	10d 31-Aug-21	13-Sep-21	31-Aug-21	13-Sep-21	-22d							SZ 0202			ck Glands				
801InS0203Ms01	SZ 0203 - Outfit Complete	Od	Od	09-Sep-21		02-Sep-21	-20d							♦ SZ 0203 -							
801InS0202Ms01	SZ 0202 - Outfit Complete	Od	Od	13-Sep-21		15-Sep-21	-22d	IIi.						♦ SZ 0202							
801CO1750	Commission Auxiliary Systems	30d	30d 14-Sep-21	25-Oct-21	14-Sep-21	25-Oct-21	-22d									ission Aux					
801CO1520	First Run Harbour and Emergency Generator	5d	5d 25-Oct-21	30-Oct-21	25-Oct-21	30-Oct-21	-32d									Run Harbo			Generato	r	
801CO1530	First Run Aux Generator	12d	12d 30-Oct-21	11-Nov-21	30-Oct-21	11-Nov-21	-32d									rst Run Au					
801CO1540	Main Engine Commissioning	14d	14d 11-Nov-21	25-Nov-21	11-Nov-21	25-Nov-21	-32d								_	Main Eng	-				
801CO1550	Gearbox Commissioning	14d	14d 25-Nov-21	09-Dec-21	25-Nov-21	09-Dec-21	-32d									_	box Comm	nissionir	ıg		
801CO1560	CPP Set Up	7d	7d 26-Nov-21	06-Dec-21	26-Nov-21	06-Dec-21	-21d									CPP S					
801CO1570	Propulsion Controls	10d	10d 26-Nov-21	09-Dec-21	26-Nov-21	09-Dec-21	-24d									_ ,	ulsion Cor	ntrols			
801CO1580	PTO / PTI	12d	12d 09-Dec-21	21-Dec-21	09-Dec-21	21-Dec-21	-32d									PT	TO / PTI				
801CO1590	Load Test	21d	21d 21-Dec-21	11-Jan-22	21-Dec-21	11-Jan-22	-32d										Load T	est			
801CO1600	PMS Set Up	21d	21d 11-Jan-22	01-Feb-22	11-Jan-22	01-Feb-22	-32d										P	MS Set U	lp		
801CO1620	Bow Thruster Commissioning	6d	6d 01-Feb-22	07-Feb-22	01-Feb-22	07-Feb-22	-32d										_	Bow Thr	uster Com	missioni	ng
801CO1630	Dock Trial	Sd	3d 08-Feb-22	11-Feb-22	08-Feb-22	11-Feb-22	-32d											Dock To			
801CO10851	1st Inclining	2d	2d 12-Feb-22	14-Feb-22	12-Feb-22	14-Feb-22	-32d											1st Inc	lining		
801CO1640	Dry Dock 2	5d	5d 14-Feb-22	19-Feb-22	14-Feb-22	19-Feb-22	-32d											■ Dry D	ock 2		
801CO1800	Dock Trial	1d	1d 21-Feb-22	21-Feb-22	21-Feb-22	21-Feb-22	-24d											Dock	Trial		
801CO1830	MES Trial	1d	1d 21-Feb-22	21-Feb-22	21-Feb-22	21-Feb-22	-24d			†		1				-††-		MES	Trief	T	
801CO1650	Builder Sea Trials	4d	4d 21-Feb-22	25-Feb-22	21-Feb-22	25-Feb-22	-34d		1 1	1 1								■ Bul	lder Sea T	ials	
801C01660	Owners Sea Trials	9d	9d 25-Feb-22	06-Mar-22	25-Feb-22	06-Mar-22	-34d											<u> </u>	wners Sea	Trials	
801C01600	Defect Clearance	15d	15d 06-Mar-22	21-Mar-22	06-Mar-22	21-Mar-22	-34d											_	Defect		
												1 1				1 1				Bunkerin	,
801CO1690	LNG Bunkering	15d	15d 18-Mar-22	02-Apr-22	18-Mar-22	02-Apr-22	-34d					·ii-				-ii-			LNG		-
801C01680	LNG Tank Commissioning	12d	12d 21-Mar-22	02-Apr-22	21-Mar-22		-34d												_		
801KM1069	801 - LNG Bunkering Complete	Od	Od	04-Apr-22		04-Apr-22	-24d					1 1				1 1				- LNG Bur	
801CO1700	LNG Dock Trial	15d	15d 04-Apr-22	19-Apr-22	04-Apr-22	19-Apr-22	-35d												_	LNG Dock	
801CO1710	LNG Sea Trial	9d	9d 20-Apr-22	29-Apr-22	20-Apr-22	29-Apr-22	-35d												_	LNG 5e	
801KM7500	801 - LNG Sea Trial Complete	Od	Od	29-Apr-22		29-Apr-22	-22d													🛊 801 - L	NG Se
801KM7510	801 - Delivery	Od	Od	29-Apr-22		29-Apr-22	-22d					7				· ; · · · · · · † ·				♦ 801 - D	eliver
801C01720	Delivery	Od	Od	29-Apr-22		29-Apr-22	-22d u		1 1											i national	

13. Ship 802 Critical path

Activity ID	Activity Name	OD	RD Start	Finish	BL Project Start	BL Project Finish	Total Float	21 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr
= 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
■ 802ASB0011Hw02	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
■ 802ASB0010Hw03	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
■ 802ERB0010Hw01	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	Od	Od	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	Od	Od 26-Aug-22*		26-Aug-22		-29d	
■ 802A4920	First Run Harbour and Emergency Genenerator	2d	2d 17-Sep-22	21-Sep-22	17-Sep-22	21-Sep-22	-29d	■ First Run Harbour and Emergency Genenerator
■ 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 / PTI	1d	1d 01-Nov-22	04-Nov-22	01-Nov-22	04-Nov-22	-28d	■ PTO / PTI
■ 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	Od	Od 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	Od	Od 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	■ UNG 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	I LNG Sea Trial
■ 802A5120	Delivery	Od	Od	27-Feb-23*		27-Feb-23	-54d	Delivery,

14. 801 Sub Contract Status



General Status

- Iredacte Pipe installation progressing in 0201, 0202 and 0203
- [redacted] continue with cable uncoiling and work in ECR, Bow Thruster compartment and installing cable ladders on mezzanine deck
- [redacted] have insulated beams on Deck 5 and 50% through beams on Deck 6 we await MCA approval of insulation drawings
- [redacted] continue preparatory work, with increased team due on site in June. Need to subcontract penetrations and BIDs has arisen.

Key Issues in month

- reduced manufacture subcontract underway to support subcontractor programme, zone 3 PO currently being placed, all other packs being compiled to be available week 26 for Procurement.
- Stop Work on burning new penetrations in Zone 3 is still in place
- Resolution with MCA on HVAC penetrations on aluminium bulkheads required urgently
- Forecast date for re-baseline to be formally issued
- Volume of modification sheets for Zone 2 pipework review has been completed to scope size of change package reduce now engaged, workpacks will need to be issued, to include Axilock replacements
- Material for closers summary of material has been passed to Stores to marshall for Zone 2 and Zone 3
- Valve availability zone 3 on order, all of zone 2 with Procurement

[redacted]

First deliveries due week 28

14. 801 Sub Contract Status - [redacted]



Key Activities

- ECR Install cable idents and Core Ferrules ([redacted])
- AMR Install & mount 2No DPU Cabinets 003A & 003B, fabricate unistrut bracketry
- Material Request 011 Issued 07/06/21 delivered 08/06/21, (2No DPU Cabinets)

Issues

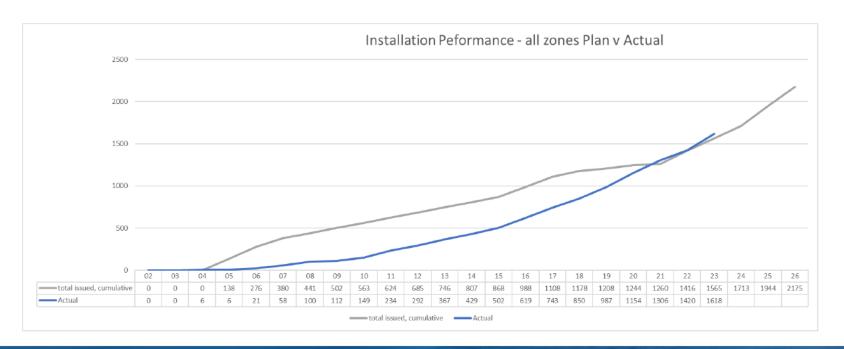
- Looking to open up more workfaces Decks 4 8
- Review of [redacted] Plan against re-baseline is underway
- Iredacted have finalized their programme of activities, which will be issued once re-baseline is issued
- Await [redacted] switchboard mark ups for [redacted] changes
- Concerned with FMPG ability to procure relevant material from the call-off procedure.
- "All subcontractor" meeting to be arranged when re-baseline is issued.

15. Pipe Installation – FMPG & [redacted]



Overall

- Pipe Installation in Zone 02 and Zone 03 is underway using FMPG & [redacted] resource
- Overall pipe installation curve shown below (for 801 & 802), measuring plan v actual
- Issues around penetrations have hampered progress for pipe installation teams
- Currently on plan
- extended to complete Zone 2 installation and Pressure Testing
- Impact of Modification Sheets ongoing, Zone 2 analysis complete, Zone 3 analysis ongoing



[redacted]

[redacted]

17. Risks – Top 10

*	Risk Description	Controls in Place	Current Impa	Current Likelihoo	Current Risk Sco	Action Planned	Risk Owner	Change explanation
88	COVID-19 - there is a risk that the onging 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	Social distancing rules remain extant. Easing of lockdown should reduce the likelihood of further COVID related incidents within the yard.	[redacted	All production staff have returned to work 08/02. Planning team has returned to work Increase in labour planned for May
37	Late delivery of 801/802	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 To be reviewed due to production suspension, Bold drydock extension, and labour shortfall	[redacted	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 A revised programme has been produced and will be reviewed and signed off end April/early May
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	Include allowance for potential increase Part of annual wage negotiations Develop the programme resource demand Produce a yard resource plan showing all projects Develop a resource supply strategy Assumes subcontract labour will be provided at same internal rate Extra supervision may be required	[redacted]	
70	Insufficient capacity for pipe manaufacture 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	produce plans for subcontract of pipe manaufacture - plan shows pipe made out company only closing pipes produce plans for permanent and contractor installation labour plan based on yard install Produce specific plan for manufacture and instalation of hydraulic pipework required to be out contracted	[redacted]	Should be able to place new orders soon - likely for 802. Behind because of legacy work.

17. Risks – Top 10

¥	Risk Description	Controls in Place	Current Impa	Current Likelihoo	Current Risk Scorp	Action Planned	Risk Owner	Change explanation
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	Include time allowance for programme slippage (same as late delivery) To be reviewed due to production suspension and labour shortfall	[redacted	Currently linked to 801 programme. To be reviewed
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	Completion of re-baseline evaluation Allow additional time in the commissioning programme	[redacted	Rework is being separately identified through planning rework codes Legacy rework, and new rework, continues to be identified. Current concerns have been axilocks, non Lloyds approved use, and penetrations
84	Impact to the programme of the implementation of the Public Procurement process	Procurement plan in place	50	5	250	Increase procurement headcount Allow for time in the programme	[redacted]	Public Procurement process is embedded in the business.
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 (Wartsila) a care and maintenace plan will be put in place.	[redacted]	Wartsila OY back on contract. Surveys ongoing to define care and maintence required.
46	Vessel cannot meet contract deadweight	Lightship weight continues to grow	50	5	250	Continue to limit weight growth wherever possible and practical Commercial impact subject to the contract provisions	[redacted]	Weight calculations ongoing with updated information. ICE will be contracted to supply information for newly modelled items.
90	Lack of robust Stop Work Process	Stop work register now in place.	50	5	250	engineering have produced an stop work process and register, this is being rolled out.	[redacted]	Change impact increased to 50 as this is becoming a concern. Process is in place however this is being reviewed to ensure it is effective.

19. Variations to Contract

Description	Additional Cost 801	Additional Cost 802	Programme Allowance 801	Programme Allowance 802	Weight Allowance 801	Weight Allowance 802	Status	VTC Forecast Date
Removal of Oily Water Separator	-	-	-	-	-1.88 T	-1.88 T	Closed	
Removal of 1 air compressor, 1 air receiver, and 1 air dryer	-	-	-	-	-1.1 T	-1.1 T	Closed	
Removal of 2 LO purifiers for Diesel Gen	-	-	-	-	-1T	-1T	Closed	
Removal of Vapour Return Line	-	-	-	-	-	-	Closed	
Supply of Window Washing Equipment	[redacted]	[redacted	-	-	-	-	Closed	
Removal of Condition Monitoring System	-	-	-	-	-	-	Closed	
Change of Supplier from Kongsberg to Wartsila	-	-	-	-	-	-	Closed	
Removal of 24V AC system	-	-	-	-	-	-	Closed	
Raindrop Ventilation Change	-	-	-	-	-	-	Closed	
Panama Eye Removal	-	-	-	-	-	-	Closed	
802 Thermostatic Valves	-	[redacted	-	-	-	-	CMAL to respond	26/05/2021
Provision of Workshop Tools	[redacted]	[redacted]	-		-	-	FM to send VTC	01/06/2021
Accommodation Fresh Water Fire Main							Open	24/06/2021
Sliding Weathertight Doors Deck 7							Open	24/06/2021
Additional Shore Supply Connection 802							Open	24/06/2021
Sanitary System Discharge							Open	CMAL to confirm

20. CMAL Comments to the Monthly Report



CMAL Comments: