

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

Programme Director: [Redacted]

Review Period:

September 2021

| Name | Job Title | |
|-----------|--------------------|--|
| [Redacted | Programme Director | |
| [Redacted | CFO | |
| [Redacted | Head of Planning | |



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Contract Summary



| Customer | Scottish Government | Contract Start | Contract Effective Date - 1st April 2020 |
|-----------------------|---------------------|-----------------|--------------------------------------------------------------------------|
| Agreed Contract value | £110.3M - £114M | Contract Finish | 801: 25 July 2022 – 25 September 2022 802: 3 April 2023 - 3 July 2023 |
| Project Type | Design and Build | Forecast Finish | 801 25 July 2022 (under review) / 802 3 April 2023 |
| Programme Director | [Redact] | 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 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 | |

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Health & Safety



Highlights

- Permanent candidate, for the role of Head of HSE has been agreed and will commence in post from 1st week of January 2022, following a handover with MA, mid-Dec 2021.
- External candidate, appointed to take on the role of Lifting Manager, agreed to commence mid-Nov 2021.
- We have seen a slight increase in the number of personnel testing positive for Covid-19. We continue to monitor through our weekly Covid Control meeting. Number of cases of in-yard transmission remain at two (since Pandemic started).
- Data entry currently underway, to provide us with ongoing accident trend analysis.

| Title | This Month | Cumulative |
|--------------------------------------------|------------|------------|
| RIDDORS | 0 | 0 |
| Fatality | 0 | 0 |
| Lost Working day Case | 0 | 5 |
| Medical Treatment Case | 5 | 20 |
| First Aid Case | 15 | 66 |
| Property Damage | 0 | 0 |
| High Potential Near Miss | 0 | 1 |
| Near Miss | 0 | 0 |
| Fire Incident | 0 | 0 |
| Environmental Incident | 0 | 0 |
| Total Number of Recordable Injuries | 0 | 1 |
| Total Number of Days Lost | 1 | 48 |





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Traffic Light Report



| | | Overa | II Status | | Future | Comments |
|--------------------------|--------|--------|-----------|---------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Jun 21 | Jul 21 | Aug 21 | Sept 21 | Trend | Comments |
| Overall Status | G | А | A | A | \leftrightarrow | Recovery plan actions identified to recover schedule, includes ship survey activity (now complete) / stock count and implementation of [^[Redacted] and material control to have robust process to issue Workpacks and materials. QLA will be aligned to these outputs to maximise efficient working |
| Safety | G | G | G | 0 | \leftrightarrow | Permanent Head of HSE agreed and commences week 1, 2022. Lifting Manager will commence from mid-Nov 2021. Priority H&S actions continue to receive attention. |
| Cost | G | G | G | G | \leftrightarrow | Project Cost EAC remains within target at £110m - 114m. Cost forecast is being continuously monitored and we are still within the window 110M – 114M. |
| Schedule | G | A | A | A | \leftrightarrow | Detailed plans for completion of hotwork, pipe installation and cable installation to support commissioning start now available and subject to daily / weekly review [Redact additional resource has started to arrive on site to support hotwork completion on 801. a dayshift / nightshift pattern will commence week 42 |
| Quality | G | G | G | G | \leftrightarrow | ISO 9001 LRQA surveillance audit passed with no new non-conformities noted. Closed all four open findings from previous audit. Closed all open defects on 802 and remaining defects on 801 being reviewed and closed on an ongoing basis. |
| Customer Relationship | G | A | A | G | \leftrightarrow | Rules of Engagement discussions in progress. A meeting was held on 14/10 and another meeting arranged 21/10. OOR process defined and both parties working together to close OOR's. Formal appointment of CMAL as Buyer's Representative is still to be confirmed. |
| Technical | A | A | A | A | \leftrightarrow | LR / MCA approvals is progressing well. P&IDs being updated to remove legacy issues and will be sent to CMAL for resubmission / Approval. Weight Calculations continue to make good progress against lightship weight validation. |
| Supply Chain | G | G | G | G | \leftrightarrow | Pipe Installation for Zone 1 (801)) has been awarded, 802 Zone 4 review complete to be awarded in wk41. Steelwork Services ITT has been released on PCS. Multiple packages of fabricated seats have been outsourced via PCS Quick Quote. Senior level meeting with [Redact UK scheduled for 25/10 to improve relationship. |
| Operations | A | A | A | A | ↑ | Additional [^{Reducted]} >mployees now on site (additional 30+) further additions being progressed - making a positive impact on progress of hotwork packages. Focus is on completing 801 hotwork packages |
| Commissioning | | | | 0 | \leftrightarrow | Commissioning is scheduled to start on time and commissioning activities now linked to production plan. Test forms are in progress. |
| Risk Management | R | R | R | R | 1 | The risk register and risk review process have been identified for Process Review and Improvement – in progress – first review of register has been undertaken with a plan to have full review mid Q4 |

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SOFT Report



| Successes | Opportunities | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Cryodiffusion - The last batch of 801, and first batch of 802 spools have arrived on site. Change management process agreed and rolled out and is now being monitored for efficiency and effectiveness. LRQA ISO 9001:2015 Surveillance Audit conducted on 29th / 30th Sept. 4 previously opened NC's closed. No new NC's reported. Lokring demonstrated to replace axilocks in 0201 tank spaces. Additional ^[Redacted] resource now on site 802 U-48 (bulbous Bow) Faired, Lloyds surveyed with no defects 802 U-45 & 46 built and Lloyds signed off with no defects | Build strategy review for 802 to build as blocks for wheelhouse and bow units prior to erection at ship Completion of 802 clam shell doors on slip before launch Continuous employee improvement up-skill of re-coding of several welders throughout the business. Progress reporting improvements Design changes close to completion Sign off on Rules of Engagement QPulse QMS to be rolled out. WP / Material ^[Redacted] implementation. Dimensional Control Surveys are ongoing on 802 Ducktail to enhance the fit up to the vessel, Fitment planned for week 43. Transition of planning capability to FMPG team as APC contract closes in Q4 | | | | | | |
| | | | | | | | |
| Failures | Threats | | | | | | |
| Failures Risk Management process needs to be re-established and brought up to date. The review of this process and risk register has commenced, a refreshed risk register will be available for agreement mid Q4 Permanent Mechanical Inspector failed to start on 27/9/21, alternative candidates identified and interviews are booked for 25 October 2021 | Threats COVID 19 impact to programme– remains a threat to the programme. PO for additional [Redact] resource in place. Weight report – Risk is diminishing. Due to provide updated prediction in October. Stability – small delay (2 weeks) due to additional errors found in the original model. Intact stability outputs due w/c 18th October. Level of change arriving as a result of field engineering review. This is impacting major pipe systems. Work is ongoing to minimise risk, first materials have been received. Resolution of issues with 802 Pipe Spools for Zone 2, 3 and 4 has taken longer than originally anticipated which is impacting the start of installation. 801 valve delivery forecast threaten completion of some pipe systems. | | | | | | |

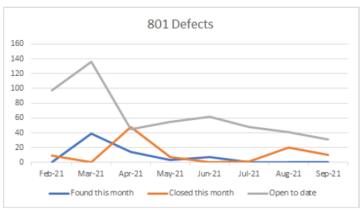
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Quality



5. Quality 801 & 802



802 Defects 45 40 35 30 25 20 15 10 Feb-2 Apr-21 Jun-21 Jul-21 Aug-21 Sep-21 Found this month Closed this month Open to date

801 - This month's report shows no new defects open from last month on 801, 10 defects were closed out this month including several care & protections

Panama Eyes are now being replaced. This will close a long-standing defect

801 has continued well with insulation inspections between ourselves and client on aluminium decks.

Fast Rescue Craft Davit modified stiffening arrangements were also put through for fabrication and welding surveys.

802 - There has been 19 defects closed out this month leaving us with 0 currently open. Although we have several classification comments to add over the coming days from dry surveys which are awaiting remedial action proposals.

802 surveys have included Units 80, 81, 93 45, 46 & Ducktail which are all progressing well and have been presented to us in immaculate condition from [Reducted] where only minor defects have been picked up.

Port side UT points have been carried out in accordance with the NDT Testing Plan also from tank top to deck 5 frames 38.5 - 124.5 with no defects found showing the quality of welding standard.

Skeg unit connections has also been surveyed with class where frames where misaligned in accordance with IACS standard but has since been approved for remedial work before sign off.

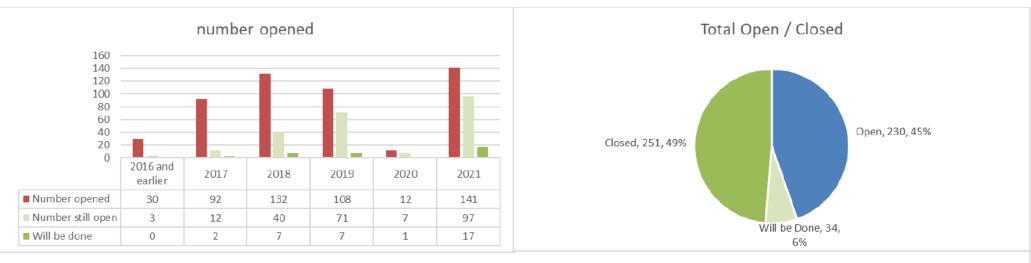
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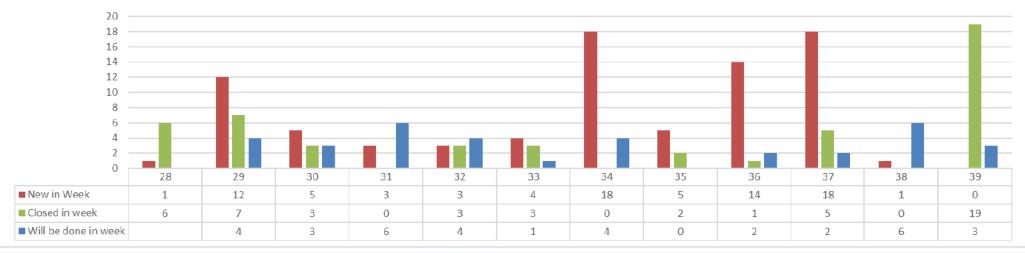


OOR Reviews





KPIs Opened / Closed in week

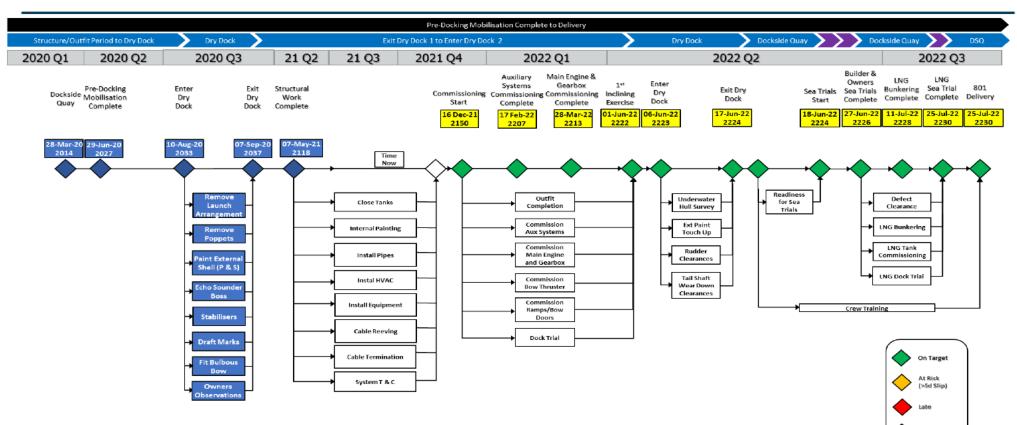


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801 Milestones





Updated 30th Sept 2021

Complete

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[Redacted]

801 Trades



| | Status | | |
|-----------------------------------------|---------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Quality | Schedule | Comments |
| Steelwork | G | A | Forward Mast is available for erection – some hotwork to complete once erected HO steelwork & Pipe spool manufacture being progressed through Manufacturing & Subcontract facilities HO steelwork plan in place to complete priority zones by end November |
| Pipe Installation | G | A | Volume of change from Zone 2 modifications sheets understood and materials available, level of change has impacted major systems for start of commissioning Plan for system completion for commissioning is in place Quality - In situ flushing quotations have been received for FMPG agreement and sign off ^(Pedacted) ave been contracted to complete Zone 1 pipe installation |
| Electrical Installation | G | A | Looking to open up more workfaces – Decks 4 – 8 Deck 5 penetrations now complete which allows main cable runs to commence to bridge and emergency generator (due to commence cabling week 43) |
| Upper Decks Insulation & Outfit | G | G | [Redacted have submitted their plan in support of the programme. Planning to incorporate minor changes and confirm. Some additional costs expected to complete rework activities Pinning and Insulation of wheelhouse, and bridling of doors have been added to [Redact scope Change to AHU insulation being progressed Bonding of windows Deck 6 windows under review with subcontractors |
| HVAC installation | G | A | Deck 5 installation now underway Tapping straps for aluminium decks have arrived and now being installed Built in Duct installation now underway |
| Hydraulic Pipe manufacture & install | G | O | Redacted progressing zone 3 installation Additional materials now on order with [Redact |
| Structural Insulation | G | G | [Redacted] have commenced work Additional requisitions now raised for materials Access to areas has been slow to ramp up due to prioritising hotwork packages |
| LNG Installation | G | A | Pricing submitted is higher than anticipated due to increase in scope from original PO with FMEL Await 3rd batch – due week 39 Cryodiffusion / Express Pipework team have started preparation work |

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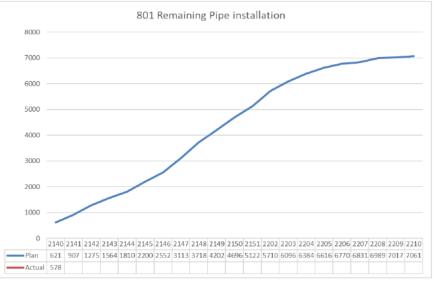
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801 Pipe Installation



Overall

- Pipe Installation in Zone 02, 03, 04, 05, 07 & 10 is underway using FMPG & [Redact] resource
- [Redacted] installation of SFI 309 system now underway in Zone 3
- Cryodiffusion return to site in week 41 to complete installation of their scope on 801
- Overall pipe installation curve shown for 801 for remaining spools
- Issues around penetrations have hampered progress for pipe installation teams
- extended to complete Zone 1, Zone 2 & Zone 4 on 801, and Zone 2 on 802. Additional resource is being added, and will bring team size to c. 52
- Zone 4 for 802 contract will be let in week 41



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[Redacted]



801 Pipe Installation

| System SubZone | 309 | 414 | 571 | 577 | 581 | 582 | Reda | d] | 704 | [Reda | 708 | 709 | | 712 | Redac | 4 | | 725 | [Redte | 1 | | 802 | 803 | | | 804 | 813 | 815 | 816 | 819 | | 822 | (blank) | |
|------------------------|--------|-------|--------|--------|-------|----------|--------|---------|--------|-------|----------------------|------------|-----|-------|-------|-------|------|-------|--------|---------|---------|--------|--------|---------|--------|-------|--------|---------|-------|---------|--------|---------------|---------|----------|
| 01 | | | | | | | | | | _ | _ | | 0% | | _ | | | | | | 0% | | | 0% | 0% | | | | | | 0% | 0% | | 0 |
| 02 | | | | | | | | | 0% | _ | 0% | | 0% | | 0% | | | | 0% | | | | | 0% | 0% | 0% | 0% | _ | | | 0% | | | (|
| 03 | | | | | 0% | 0% | | | 0% | | 0% | | 0% | | 0% | | 0% | | 0% | | 0% | | | 0% | 0% | 0% | 0% | | | 0% | 0% | 0% | | (|
| 01 | | | | 0% | | | | 100% | 31% | 100% | | | 75% | 0% | 0% | 97% | 75% | | | | | 100% | | 77% | 100% | | | | | | 78% | 100% | | 7 |
| 02 | | | | 0% | 80% | 100% | 0% | 46% | 0% | 98% | 60% | 0% | 80% | 33% | 50% | | 83% | | 67% | 48% | 87% | 100% | 0% | 93% | 96% | 56% | 96% | | | 80% | 95% | | 25% | 7 |
| 03 | 0% | | | 62% | 87% | 100% | 0% | 78% | 9% | 92% | 76% | 0% | 76% | 19% | 50% | 87% | 83% | 85% | 75% | 53% | 79% | 83% | | 100% | 93% | 63% | 78% | | | 62% | 88% | 89% | 35% | 7 |
| 01 | | 0% | | 0% | 0% | 76% | | 0% | | 0% | | | | | | | | | | | 0% | | | 0% | 0% | 67% | | | | | | 0% | | 1 |
| 02 | 0% | | | | | | | 0% | | | | | | | | | | | 67% | | | | | | | | | | | | 0% | | | 2 |
| 03 | 0% | 0% | | | | 82% | | 41% | 0% | 100% | 0% | | | | | | 95% | 67% | | 100% | 6% | | | 22% | 76% | | 33% | 73% | | 0% | 58% | 0% | | 6 |
| 04 | | | | 50% | 13% | 21% | | 6% | 0% | 100% | | | | | 33% | | 13% | | 55% | | | | | 0% | 0% | | 0% | | | 0% | 52% | | _ | 2 |
| 05 | 0% | 0% | | 5070 | 0% | 100% | | 0% | 0% | 100/0 | _ | | - | | 47% | | 0% | | 0% | | | | | 60% | 86% | 0% | 43% | | | 0.0 | 31% | 070 | | 3 |
| 06 | 0% | 078 | | - | 0% | 38% | | 070 | 0% | - | 0% | 0% | - | | 4770 | | 076 | 0% | | _ | 0% | | | 0% | 0% | 076 | 0% | - | - | 88% | | 0% | 0% | 1 |
| 07 | 0% | | - | 0% | | | | 0% | 0% | 86% | 076 | 076 | 0% | - | 0% | | 0.04 | 076 | 0% | _ | 070 | 53% | | 0% | 0% | 0.04 | | 0.04 | | 93% | | 076 | 076 | 2 |
| ••• | | 0.04 | | 0% | 0% | 78% | | | | 86% | | | | | | | 0% | | | | | 53% | | | | 0% | 0% | 0% | | 93% | | | | |
| 08 | 0% | 0% | | | | 0% | _ | 0% | 0% | | | | 0% | _ | 52% | | 0% | | 0% | | | | | 0% | 86% | 0% | 67% | 0% | _ | | 25% | | | 2 |
| 09 | | 0% | | | 0% | _ | _ | 0% | | 100% | | 0% | 0% | | 0% | | 0% | 0% | 91% | | | 0% | | | _ | 0% | 14% | 0% | | 24% | 0% | | 0% | 1 |
| 01 | | 0% | | | 0% | 21% | | | 0% | | | | | | | | 0% | | 33% | | 15% | | | 17% | | 20% | 6% | 0% | 0% | 0% | | 10% | | 1 |
| 02 | | | 39% | 60% | 53% | 67% | | | 0% | | | | | | | 100% | 75% | | 57% | | 96% | | | 70% | 80% | | 20% | 5% | 14% | 48% | 91% | | | 6 |
| 03 | | | 0% | 0% | 100% | 24% | | | | | | | 83% | | | | | | 45% | | | | | | | 36% | 67% | 0% | | 39% | 94% | 100% | | 5 |
| 601 | | | | | | | | | | | | | | | | | | | | | 0% | | | 0% | 0% | | | | | | 0% | | _ | (|
| 602 | | | | | | | | | 0% | | | | | | 0% | | | | 0% | | 0% | | | 0% | 15% | 0% | 0% | 0% | 0% | 0% | 12% | | | |
| 03 | | | | | 0% | | | | | | | | | | | | | | 0% | | | | | | 50% | | 0% | | | | 0% | 0% | | 1 |
| 02 | | | | - | 0% | 0% | | _ | | - | | 0% | | | 0% | | | | 0% | | | | | | | 0% | 0% | | | 0% | 0% | | | |
| 603 | | | | - | | 1 | | | 0% | | _ | | | | | _ | | | 0% | _ | | | | 0% | _ | 0% | 0% | - | | 0% | 0% | | _ | |
| 04 | | | | | - | | | | 070 | _ | | | | | | | | | 0% | | | | | 070 | 0% | 070 | 0% | | | 0,0 | 070 | | | |
| | | | | | 0% | | | | | 0% | | 0% | | | 0% | | | | | | | 0% | | | 076 | 0% | | | - | 0.04 | 0% | | | |
| 06 | | | | | | - | | | | 0% | _ | 0%6 | | | 0% | | | | 0% | | | 0% | | | | | 0% | | | 0% | 0% | | | |
| 07 | | | | | 0% | | | | | | | | | | | | | | 0% | | | | | _ | | 0% | 0% | | - | 0% | | | | |
| 08 | | | | | | | | | | | | | | | | | | | 0% | | | | | 0% | | 0% | 0% | _ | 0% | 0% | 0% | | | |
| 609 | | | | | 0% | | | | | | | 0% | | | | | | | 0% | | | | | | | 0% | 0% | | | | 0% | | | (|
| 510 | | | 0% | 0% | 0% | | | | | | | | | | | | | | 0% | | | | | | | 0% | 0% | | | 0% | 0% | | | (|
| 511 | | | | | 0% | 0% | | | | | | | | | | | 0% | | 0% | | | | | | | 0% | 0% | | 0% | | | | | 0 |
| 512 | | | | | 0% | | | | | | 0% | | | | | | | | 0% | | | | | | | 0% | 0% | | | | | | | (|
| 513 | | | | | 0% | | | | | | | 0% | | | | | | | | | | | | | | 0% | 0% | | | 0% | 0% | | | 0 |
| 514 | | | | | 0% | | | | | | | | | | | | | | 0% | | | | | | | 0% | 0% | | 0% | 0% | 0% | | | |
| 515 | | | | | 0% | 0% | | | | | | 0% | - | | | _ | | | 0% | | | | | | _ | 0% | 0% | | | 0% | 0% | | _ | |
| 516 | | - | 0% | 0% | 0% | 070 | _ | | - | - | | 070 | | | | _ | | | 0% | _ | | | | | | 0% | 070 | _ | | 0% | 070 | | | |
| /01 | | 0% | 076 | 076 | 0% | | | | | | | 0% | | | | | 1% | 0% | 0% | 50% | | | | | _ | 29% | 75% | | | | 50% | | _ | 1 |
| /01 | | 0% | | 0% | | | | 0.04 | 0% | | | 0% | | | | | 0% | 0% | | 29% | | | | | | | 0% | _ | | 0% | 0% | | | 1 |
| | | | | | 0% | | _ | 0% | 0% | | | | _ | | | | 0% | | | 29% | | | | | | 46% | | | - | | 0% | | | |
| 301 | | | 0% | 0% | 0% | 0% | _ | | | | | 0% | | | | | | | 0% | | | | | | | 0% | 0% | | 0% | 0% | | | | (|
| 02 | | | 0% | 0% | 0% | 0% | | | | | | 0% | | | | | | | 0% | | | | | | | 0% | 0% | 0% | | 0% | | | | 0 |
| 03 | | | | | 0% | 0% | | | | | | | | | | | | | 0% | | | | | | | | | 0% | | 0% | | | | 0 |
| 01 | | | 0% | 0% | 0% | 0% | | | 0% | 0% | | | | | | | | | 0% | 0% | | | | | | 0% | 0% | | | 0% | | | | (|
| 02 | | | | 0% | 0% | 0% | | | | | | 0% | | | | | | | | | | | | | | 0% | 0% | | | 0% | | | | 0 |
| 03 | | | 0% | 0% | 0% | 0% | | | | | | | | | | | | | 0% | | | | | | | | | | | | | | | 0 |
| 04 | | | 0% | 0% | 0% | 0% | | | | | | | | | | | | | 0% | | | | | | | 0% | 0% | | | 0% | | | | |
| 001 | | | | | | | | | | | | 0% | | | | | | | | | | | | | | | 0% | | | | | | | |
| 002 | | | 0% | 0% | 0% | 0% | | 0% | 0% | 0% | | 80% | | | | | | | 0% | 0% | | | | | | 0% | | 0% | | 0% | 0% | | _ | 1 |
| 003 | | | 0% | 0% | 0% | 0% | | 070 | 0/0 | 0/0 | | 0% | _ | | | | | | 0% | 070 | | | | | _ | 0% | 0% | 0% | | 0% | 0.0 | \vdash | | |
| 1003 | | | 076 | 076 | 0% | 0% | | | | | | 076 | | | | | | | 076 | | | | | | | 0% | 076 | 076 | - | 0% | | \vdash | | |
| | | 0.04 | | | 0% | 0% | 0.01 | 4301 | 70/ | 0501 | 40% | 0.04 | CON | 24.01 | 2201 | 0.000 | 6701 | 6.984 | 5.001 | 45.04 | 4201 | 0.000 | 0.04 | 470 | 4000 | | 1.5.01 | 0.04 | 100 | | E 4.01 | 22% | 2200 | |
| irand Total | 0% | | [Reds | | | | | 42% | | | | | | | | | 67% | | | | | 80% | | | | | 15% | | | | | | | |
| | | | 571 | 577 | 581 | 582 | Reda | d] | 704 | [Red | | 709 | 711 | 712 | [Red | tct] | | 725 | [Reda | | | | | | | 804 | 813 | | | | | 822 | | <u> </u> |
| 09 - Hydraulic System | | | | | | | | | | [Re | edact] | | | | | | | | | | _ | and W | | | tem | | | | | | | ching S | | |
| 14 - Echo Sounders. Sp | eed Lo | 704 - | Machi | nery & | Save- | All [Red | fact] | | | | | | | | | | | | | 803 - B | Bilge S | ystem | (Clear | n) | | | | 819 - 1 | Water | mist Sy | ystem | /[Reda | ct] | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | [Rec | dact] | | |
| 77 - Heating System | | 708 - | Nitrog | en Sys | tem | | | | | | Redac | t] | | | | | | | | 803.2 - | - Bilge | Syster | n (Oil | y) | | | | 822 - 1 | Sound | ing Sys | | | | |
| 31 - Technical & Dom. | Fresh | 709 - | LNG SV | stem | (Main | Engine | es & M | lain Ge | ensets | | Redac | • | | | | | | | | 804 - E | xpose | d Ded | Scup | per & I | Drains | Arran | geme | nt | | | | | | |
| 1 - rechnical & Dom. | | | | | Syste | | | | | | [R ⁴ [Red | | | | | | | | . — | | | d Ded | | | | | | | | | | \rightarrow | _ | _ |

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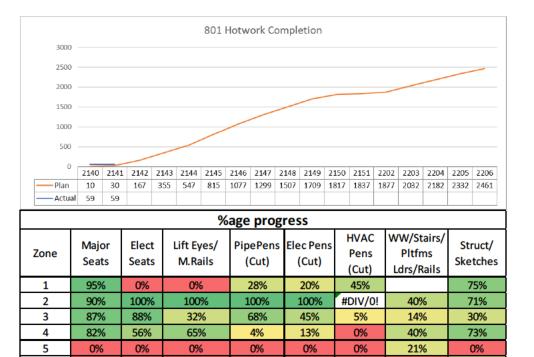
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801 Hotwork



Overall

- Hotwork schedule to completion in place
- Additional [Redacted] resource now in place to support completion.
- Additional subcontract manufacture has been used to accelerate provision of major and electrical seats.



0%

62%

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30%

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Ferguson Marine (Port Glasgow) Proprietary Information

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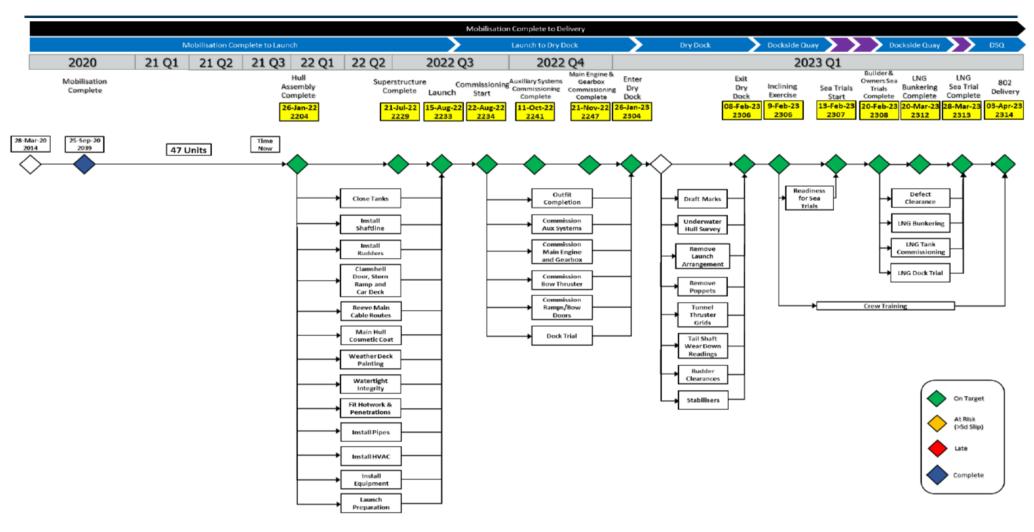
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FERGUSON

802 Milestones



Updated 30th Sept 2021

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[Redacted]

802 Trades



| | Status | | |
|-----------------------------------------|---------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Quality | Schedule | Comments |
| Steelwork | G | A | HO steelwork being progressed through Manufacturing & Subcontract facilities Bulbous bow now erected Ducktail planned to be erected week 43. [Redacted] Resource has been constraint, additional 20 tradesmen arrived onsite 04/10/21 allocated to 802. |
| Pipe Installation | G | A | Contract let with or Zone 2 installation. Volume of change from Zones 2 Pipe Spool Modifications sheets are a risk to programme and will have a cost associated (material and labour to rework). |
| Electrical Installation | G | G | No current issues impacting cost, schedule or quality. |
| Upper Decks Insulation & Outfit | G | G | No current issues impacting cost, schedule or quality. |
| HVAC installation | G | G | No current issues impacting cost, schedule or quality |
| Hydraulic Pipe manufacture & install | G | G | No current issues impacting cost, schedule or quality |
| Structural Insulation | G | G | Initial pinning has commenced |
| LNG Installation | G | G | Pricing submitted is higher than anticipated due to increase in scope from original PO with FMEL Cryodiffusion tracking for delivery of Spools in early October |

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Lessons Learnt

We are now holding a weekly meeting looking at lessons learnt from 801 and opportunities improving 802 moving forward. Some opportunities raised to date:

| | Lessons Lear | nt 801 v 802 |
|---|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| | 801 | 802 |
| 1 | Mezzanine decks fitted too early in the build sequence, creating weld access issues. | All L11 bulkheads to be complete before installing the Mezzanine Decks after launch. |
| 2 | Funnels not consolidated before launch, Had to be removed to allow silencers to be dropped in. | Silencers to be dropped into position and funnels consolidated before Launch. |
| 3 | Masts not fitted before launch or outfitted to correct sequence. | Full details of LNG scope now available to integrate onto 802 masts before erection to ship. |
| 4 | Wheelhouse windows not fitted before launch. | Windows to be fitted before Wheelhouse is erected onto Ship. |
| 5 | Exterior shell not surveyed or signed off before launch. | Exterior shell to be surveyed and signed off, reducing the need for welding at quay side on exterior shell. |
| 6 | External walkways and handrails not fitted before launch. | All to be fitted before launch reducing costs and improving safety. |
| 7 | Clamshell door's main structure work did not commence before Launch. | All internal clam shell structures to be complete before launch, reducing cost and man hours. |
| 8 | Switchboards dropped into position before all hot work was complete, causing damage to switchboards. | All hot work to be complete and signed off in the area before switchboards are dropped into position. |
| 9 | Hot work in zones 1, 2, 3 & 4 not complete for launch. | PO1 programme introduced to plan and track hot work progress completing all hot work in these zones before launch. |

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Weight



| | Sept (REV28) | Oct Rev 29 | Difference | Margin remaining | Remaining to validate | Comments/Highlights |
|-----------------------------------|-----------------|---------------|------------|---------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|
| Group 1-1 Hull Steel | 1537.38 | 1537.38 | 0 | | | |
| Group 1-2 Misc. Steel | 124.7 | 124.7 | 0 | | | |
| Total Steel | 1662.09 | 1662.09 | 0 | 18 | 25 | |
| | | | | | | |
| Group 2 S/S Aluminium | 158.81 | 158.81 | 0 | | | |
| Total S/S Aluminium | 158.81 | 158.81 | 0 | | | |
| | | _ | - | _ | | |
| 2-4 Paint | 35.34 | 35.34 | 0 | | | |
| | | | • | | | |
| Group 3 Cargo Equipment | 201.46 | 201.46 | 0 | | 4 | 4t of small items to be validated |
| Group 4 Ship Equipment | 188.54 | 187.67 | -0.87 | | 33 | 7t of items validated |
| Group 5 Accom. Outfit | 580.90 | 565.59 | -15.31 | 28 | 61 | 33t of items validated in month, deck covering recalculated |
| Total Outfit | 970.91 | 954.72 | -16.18 | | | |
| | | | | | | |
| Group 6 Main Machinery | 295.34 | 295.34 | 0 | 14 | 25 | |
| Group 7 Machinery Systems | 210.08 | 210.08 | 0 | 6 | 36 | |
| Group 8 Ships Common Systems | 263.6 | 262.31 | -1.29 | 9.9 | 52 | 56t of items validated - SFI 803-804-815-819 (Bilge, scupper, firefighting-watermist) piping and equipment updates |
| Total Machinery & Electrical | 769.03 | 767.74 | -1.29 | | | |
| | | | | | | |
| Predicted Lightship | 3596.17 | 3578.7 | -17.47 | | | 95.85 tonnes validated since last month, 236 tonnes |
| Excess weight | 42.82 | 25.35 | | 76.41 | 220 | remaining to validate. |
| Target Weight of the Lightship | 3553.35 | 3553.35 | | 76.41 | 236 | Predicted Weight has reduced by 17t since last month |

Green is at least 90% validated Yellow is at least 80% validated Orange is at least 60% validated

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Engineering – Basic Design Status

Green are approved.





LR

MCA

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Engineering – Basic Design Status



| MCA approvals | |
|---------------------------------------------------------------|------------|
| Volume Sheets (HVAC) | |
| HVAC schematic | 09/08/2021 |
| Location Drawing Emergency Light System | 22/06/2021 |
| Layout Drawing - Wheelhouse console | |
| CALCULATION - GMDSS BATTERY | |
| PROGRAMMING LIST - PAGA SYSTEM | |
| CERTIFICATE - PAGA SYSTEM | |
| Location Layout Drawing PAGA System | |
| BLOCK DIAGRAM PAGA SYSTEM | |
| BLOCK DIAGRAM GMDSS SYSTEM | |
| Tank & Capacity Plan | |
| Modifications Around Bow Door Hinges | |
| Aft Mezz Dk & Bulwark Port – Add. Work. Construct | |
| Life Saving arrangement | |
| Fire Control Plan | |
| Escape Route Plan | |
| Accommodation Layouts | |
| Hazardous Zones Designation | |
| Quick Closing Valve System | |
| Machinery & Save all Drains | |
| Machinery & Save all Drains | |
| Sludge & Waste Oil System | |
| Fire and Deck Wash System | |
| 801 - Basic Intact Stability Information | |
| Preliminary Trim & Stability Book incl. Longitudinal Strength | |
| Preliminary Damage Stability Book | |
| | |

| MCA approvals | |
|----------------------------------------------------------------------|-------------------------|
| Keel Readings | |
| Fire Door, Damper & Patrol Point Monitoring Dk.7 to Dk. 1 Gen. Arrgt | |
| Fire Detection General Arrangement | |
| Fixed Fire Extinguishing Syst. Emergency Diesel Generator room | |
| Fixed Fire Extinguishing Syst. Server Equip. Rm - Deck 7 | |
| Fixed Fire Extinguishing Syst. ECR & Pipes, Cables Transformer Room | |
| 801&802-LNGPac Operating & Maintenance Manual | |
| | |
| LR approvals | |
| Tank & Capacity Plan | |
| Freeboard / External Watertight Integrity Plan | Waiting on stability |
| Cargo Securing Manual | |
| Nitrogen System | |
| Glycol System | |
| Compressed Air & Instrumentation system | |
| Drencher Lines Penetrations below Upper Deck | |
| Steelwork Standards | |
| Damage control plan | |
| LNG System For ME & DF Gen Sets | |
| TYCO submissions | |

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[R]

Commissioning



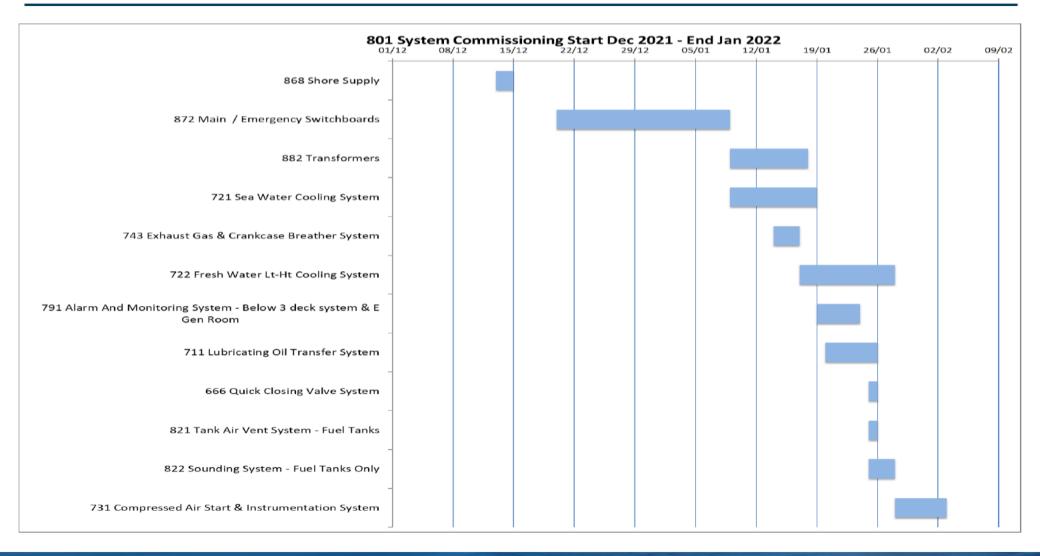
- Test Packs are being created and sent to CMAL/LR when they are ready for review and approval.
 - 30% submitted for approval
 - 0% Approved
- The commissioning plans are being integrated into the main production plan.
- The system completions essential to achieve first run of the engines have been identified and progress on these activities is being tracked at a detail level on a weekly basis.

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[Redact]

801 System Commissioning





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Variations to Contract



| Description | Additional Cost 801 | Additional Cost 802 | Programme Allowance 801 | Programme Allowance 802 | Weight Allowance 801 | Weight Allowance 802 | Status |
|--------------------------------------------------------------|------------------------|------------------------|----------------------------|----------------------------|-------------------------|-------------------------|----------------|
| 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 | [Redact] [| [Redact] | - | - | - | - | 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 | - | [Redact] | - | - | - | - | Closed |
| Provision of Workshop Tools | [Redact] | [Redact | - | - | - | - | [Redact] |
| Accommodation Fresh Water Fire Main | | | | | | | FM to send VTC |
| Sliding Weathertight Doors Deck 7 | | | | | | | FM to send VTC |
| Additional Shore Supply Connection 802 | | | | | | | FM to send VTC |

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CMAL Comments to the Monthly Report



CMAL Comments:

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