

Programme:

100m LNG Dual-fuel Ro-Ro Passenger Ferry

Programme Director:

[redacted]

Review Period:

April 2022

<u>Name</u>	Job Title	
[redacted]	Programme Director	
[redacted]	CFO	
[redacted	Head of Planning	



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Introductions & Apologies. Minutes from Last Meeting.

- HSE.
 - General Update, any issues.
- Programme.
 - 801 Cardinal Date Programme Review.
 - CD Programme Review.
 - Engineering & Steelwork.
 - Outfit.
 - Pipework.
 - Electrical.
 - Drydocking
 - Specialist Subcontractors.
 - Labour & Resource.
 - Issues, Challenges & Successes.
 - o 802 Cardinal Date Programme.
 - Fabrication & Erection.
 - Launch.
 - Outfit through to commissioning.
 - Pipework progress.
 - Electrical.
 - Specialist Subcontractors.
 - Labour & Resource.
 - Issues, Challenges & Successes.

- Engineering / Technical.
 - Stability.
 - Weight.
 - o OOR's
 - FMEA way forward.
 - MCA / Lloyds issues.
 - Drawing Approval & Contract Specification update.
 - Drawing Status Update.
 - Crew Training.
- Commissioning.
 - Programme Review.
 - Specialised subcontractor support.
- Quality.
 - General update.
- Risk Register.
 - Review.
- Commercial.
 - Variations to Contract.
- AOB.

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Health & Safety



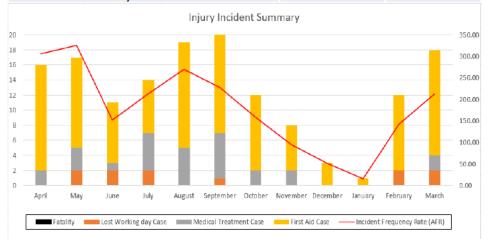
Highlights

- Contract HSE Manager started on 21st March, other recruitment is ongoing
- Covid-19 cases stabilizing, we continue to monitor the impact whilst reducing our control measures in line with Scottish Government instructions.
- Road map to change complete and priority 1/2/3 identified with suitable timelines for completion of each phase (P1 30-60 days) P2 (60 – 90) (P3 – 120) days.
- 18 injury incidents reported
- 2 LTIs, (Both 7 days fractured finger / cut to hand RIDDORs due to time)
- 2 MTCs (slipped on stairs & hit thumb with hammer)
- 14 FACs
- 12 Near Misses still low but report nonetheless.

Moving forward :

- ERT review conducted and completed using third party ERT now under the stewardship of HSE.
- Work continues to develop a more agile PTW system whilst maintaining the control required.

	Mar-22	Cumulative
Fatality	0	0
Lost Working Day Case	2	11
Medical Treatment Case	2	28
First Aid Case	14	115
Property Damage	1	3
Fire Incident	1	1
Environmental Incident	0	0
High Potential Near Miss	0	5
Near Miss	12	29
Total No. of Recordable Injuries	4	7
RIDDORS (counted in category)	2	3
Total Number of Days Lost	14	76



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Level 0 - Programme

Date: 23/03/2022

	Year					20	22										20	23					
	Month	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Hotwork Installation			2																			
	Painting			1	90 90																		
	Pipework Installation			2	2																		
	HVAC			1	8																		
	Electrical Installation			1																			
8 0	Miscellaneous Outfit																						
	Commissioning																						
	Dry Dock																						
	Sea Trials												8										
	Snagging & Delivery														////								

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801 status



Engineering & Steelwork

[redacted] Scope

- Mezzanine hotwork 90% complete
- Trials done on both forward mezz ramps completed successfully
- Doors smooth opening / closing demonstrated
- Hinge points re-established
- Fwd STBD Pilot door operation established manually, hydraulics still to be connected
- Mezzanine decks, temporary pilot ropes installed to allow easier montage of wires later.

Steelwork

- Critical areas progressed to allow [redacted] access to ECR and Em Dg to complete pre-commissioning activities
- STP and Hydraulics room progressing to revised plan
- 7 deck accommodation areas hotwork being concluded for [redacted
- MCA have provisionally signed off 7 deck
- Extension of [redacted] to end of July
- Shell side fairing underway

Specialist Subcontractors

- [redacted] on site week 16 to commence gas phase installation
- Observation windows specialist fitters due on site for review, plan to install June
- Lifts ^[redacted] programme received and draft plan submitted for agreement. Due on site end May to commence work.

Electrical

- Upper Decks 7,6,5 main ladder rack installed and signed off by QC (CMAL involved during inspections)
- Cable install commences week 16 on 7,6,5 deck.
- [redacted] & the hot work team have made excellent progress in the lower decks to complete electrical brackets welded and painted in the critical path for the main cable routes.
- Decks ,2,3,4 main ladder rack inspection continues this week, all scope clearly broken down to 3 phases with QC ,
- Phase 1 complete STP, hydraulic, Steering gear, workshop area, compartments are all complete, all other key areas in lower decks for main ladder rack will signed off by 5th May.
- 2 deck cable install commences wk17, PoaP for weekly qty will be issued.
- Commissioning plan will be given priority at all times, (although we will go for volume cable install circa 220,000 [reducted] to go includes legacy) a specific team will be allocated to the commissioning plan to work though to completion.
- There are 2 weekly meetings in addition to POTD one commercial and the other on the ship, to ensure all are on the one page with our planning commitments/milestones for 801.

Pipework

- · Fuel Oil changes underway
- SW changes underway in ER/GR tanks
- Critical systems established with commissioning plan
- Weekly reviews underway



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Outfit



• [redacted] plan in place

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- Slots booked
 - Summer Docking 15 July to 07 August 2022
 - Winter Docking 23 January to 31 January 2023
- Thrusters
 - 802 Thrusters being removed for shipment to Wartsila, plan to complete week 16.
 - PO placed for overhaul of both 801 / 802 thrusters and service engineer support for 801 docking
- Scope
 - Scope of Work reviewed at meeting with [redacted] 13 April , major activities:
 - Paint topsides
 - Removal of marine growth
 - Painting below belting
 - Replacement of thruster pods
 - Stern tube
 - Draught marks

D	•	Task Mode	Task Name	Duration	Start	Finish		1	8 Jul '22			25 Jul	22 w т		0	1 Aug '2 4 T W	2	
1	0		Dry Dock Window	16 days	Fri 15/07/22	Fri 05/08/22	FS	S I	M T W	TF	S S	MT	WT	FS	SN	A T W	/ T F	S : 1
2			Day 1	1day	Fri 15/07/22	Fri 15/07/22	-											
3		-	move ship into dock	0.25 days	Fri 15/07/22	Fri 15/07/22	1											
4		-	dock down	0.25 days	Fri 15/07/22	Fri 15/07/22	ĥ											
5			install shore services	0.25 days	Fri 15/07/22	Fri 15/07/22	ĥ											
6			safe gangway in place	0.25 days	Fri 15/07/22	Fri 15/07/22	—	-1										
7		-6	dock survey	1day	Mon 18/07/22	Mon 18/07/22												
8		-	Setup for works	1day	Mon 18/07/22	Mon 18/07/22												
9		-0	removal of topside paint	7 days	Mon 18/07/22	Tue 26/07/22		Г			-	-	1					
16			Below belting	5 days	Tue 19/07/22	Mon 25/07/22	1				-							
18			Painting	9 days	Tue 26/07/22	Fri 05/08/22	1							-	-			٦.
34		-6	Thrusters	9 days	Thu 21/07/22	Tue 02/08/22				<u> </u>	-	-		-		i		
46		-9	Stern Tube	5 days	Tue 19/07/22	Mon 25/07/22					-							

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Forecast Labour & Resource.





[redacted

- Reduced team over Easter break
- Contract extended from week 18 to maintain a headcount of 80 to support 801 and 802
- Overall loading can be contained within current headcount
- Trade level reviews required, particular attention to demand on shipwrights and engineer/fitters

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- Issues
 - Axilock change out on HT-LT access issues impact being assessed
- Challenges
 - Completion of hotwork to meet subcontractor access dates
 - Level of change being managed
 - Pipework completion for commissioning (FO)
 - Material availability
 - Driving OORs to closure
 - Cable installation
 - Work sequencing
- Successes
 - Bow door operation
 - MCA provisional sign off 7 deck
 - [redacted access achieved to commence pre-commissioning checks

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Leve	<u> 10 - Programme</u>																			Da	ate: 2	3/03/	2022
	Year					20	22										20	23					
	Month	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Structure																						
	Hotwork Installation					1			1	; ,													
	Painting								1	:													
	Pipework Installation					1			1	;	-			-									
	HVAC								1	:				•									
0 2	Electrical Installation								1														
80	Insulation & Architecture								1	:													
	Launch																						
	Commissioning																						
	Dry Dock																						
	Sea Trial																						
	Snagging & Delivery																						

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802 Status



Manufacturing Sheds

- Plan for remaining units now in place.
- Outfit to be maximised in sheds prior to erection.
- Wheelhouse and both wheelhouse voids will be completed and erected as one unit.

Erection & Consolidation

- Erection & Consolidation plan now in place.
- Units 49, 50 & 51 to be erected as block week commencing 25/04/2022.

Outfitting

- Outfitting to be maximised in Sheds before unit erection.
- Plan now in place for outfitting to completion.

Pipework Installation

• Commencing June.

Launch

- Launch preparation commencing August.
- Launch Date February 23rd, 2023.

Electrical

• Commencing September.

HVAC

• Commencing September.

Specialist Contractors

• Currently reviewing opportunities and finalising plan with specialist contractors.

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Bottom Shed	802 Un	it A7/5	Outfit			802 U	A6/6		Outfi	it			802 U/	A8/6			Ou	tfit								
Bottom Shed		802 Un	nit A9/5	·	o	utfit			802 L	UA7/6			Out	fit		802 Unit	A9/6		Out	it	, ,	<u> </u>	3 3			
Bottom Shed		802 Uni	it A10/5		0	utfit				8	802 UA9/7	1		Outfit		80	2 UA8/7	7	Out	ït						
Module Hall area 1	mega blo &		Pa	int	U87,	/88 Bullwo	ork					Aft N	/lask			Outfi	it									
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Module Hall area 4	8	02 Unit 9	8	Outf	it	80	2 Unit	100	Ou	utfit			A11/6				Fw	d Mask		Out	tfit					
Top Shed		802	Unit A8/5			Outfit			8	802 UA1	1/5			Outfit		802 UA	7/7		Outfit							
Manpower	40	40	40	40	40) 40)	40 4	0	40	40	40	40	40			-									

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Contract 802 Fabrication, Erection & Consolidation

	Fab.	Fab.	Erec.	Erec & consol.	1-Apr-22	.8-Apr-22	25-Apr-22	02-May-22	19-May-22	6-May-22	3-May-22	10-May-22	16-lun-22	3-Jun-22	20-Jun-22	7-Jun-22	17-	-12	27	27-405-0	8-4 tis-22	5-Aue-22	2-Aug-22	9-Aug-22	5-Sep-22	2-5ep-22	9-5ep-22	6-5ep-22	03-Oct-22	0-0ct-22	7-0ct-22	4-0ct-22	1-0ct-22	17-Nov-22	4-Nov-22	1-Nov-22	8-Nov-22	17-201-C	9-Dec-22	6-Dec-22	02-Jan-23	9-Jan-23	6-lan-23	(3-Jan-23	10-Jan-23	16-Feb-23	6-23	20-feb-23	b-23
Unit	Start	Finish	Start	Finish	1-Ap	8-AD	5-Ap	2-M	9-M	6-M	3-M	0-M	e-fui	3-Iui	0-Pni	1-hu	4-Jul-22	1-jul-22	S-101-22	INF-C	A A	5-Au	2-A.u	0-Au	5-Se	2-Se	9-56	6-Se	3.00	20	20	400	10	7-10	4-No	1-No	8-No		90.6	6-De	2-Jai	9-Jai	6-lai	3-Jar	0-fai	6-Fe	3-Fe	0-Fe	7.fe
U49,50/51	Start	THUST	Juli	1 11 11 211	-	-	~	-	-	-	~	m	-	-	~	~	-	-	-	4 5	2 6	5 -	~	a	0	-	-	a	0	-	-	a	m	0	-	~	04 0	-	1 -	a	0	0	-	Q	m	-	-	a	a
(Bow Mega															1																									L									
Block)	4/4/22	18/4/22	26/4/22	31/5/22		e				_	-			_		- 52				8						8									-	- 26		_	1				2	5-3				0	
UA7/5	4/4/22	27/4/22	4/5/22	25/5/22																																													
U97	4/4/22	4/5/22	16/5/22	6/6/22																		1				1						11										1							
U98	4/4/22	4/5/22	16/5/22	6/6/22																																													
U86	4/4/22	11/5/22	16/5/22	6/6/22																		1																											
U85	4/4/22	11/5/22	16/5/22																			1																											
A10/5	4/4/22	11/5/22	23/5/22	13/6/22																		1																											
UA9/5	4/4/22	11/5/22	30/5/22	20/6/22																																													
UA8/5	4/4/22	16/5/22		13/6/22																																									-				
U87	2/5/22	16/5/22	23/5/22																																														
U88	2/5/22	16/5/22	23/5/22	13/6/22					4							- 23						1		-		2	S									- 12					1.1		1		2-3				
UA6/6	27/4/22	1/6/22	13/6/22	4/7/22					÷.									1		2	1		1	1		S7	1	2 2				1				- 1	3				1		1		5-5				
U99	4/5/22	6/6/22	13/6/22	4/7/22			- 21																									-			+			+								-			
U100	4/5/22	6/6/22	13/6/22	4/7/22					1														1													1		+							-			1	
UA4/7	11/5/22	6/6/22	14/6/22	5/7/22																		1													+			\top							-				-
UA7/6	11/5/22	29/6/22	11/7/22																																+			+		t									
A10/6	6/6/22	29/6/22	18/7/22																																														
A11/5	16/5/22	4/7/22		8/8/22																																													
UA9/7	25/5/22	6/7/22	-	3/8/22																		1														1.													
A11/6	6/6/22	11/7/22	18/7/22	8/8/22																																		T											
A10/7	6/6/22	18/7/22	5/9/22	26/9/22																																1.													
AFT Mast	6564	0.6222	Stran	04522			- 33		1												8	14		-		20						-				- 12		+							2-3				-
(Steel lower)	30/5/22	20/7/22	27/7/22	17/8/22				_	_	_	_	_		4			_	-		-						_			_		_	_	_	_	_	_		+	-	-							_	_	_
AFT Mast (AL	20/5/22	20/2/22		17/0/22	<u> </u>																1		T	1													1	1		Г	Г								
Upper)	30/5/22	20/7/22	27/7/22	17/8/22			- 23		+	+		-	-	+	-	-		-		-	-		-		-				-		-	-	-	-	+	+	+	+	-	⊢	-	-			1 3	-	-	+	-
UA8/6	1/6/22	27/7/22	3/8/22	24/8/22					-	+	-				-					-			-		-				-	-	-	_	-	-	+		+	+	-	+	-	-			_	-	-	+	+
UA7/7	4/7/22	8/8/22	15/8/22	5/9/22			_		-	+	-	-	+	+	-	- 2				-			-					-	-		-		-	-	+	+	-	+	-	+	-					\rightarrow	-	+	-
UA9/6	29/6/22	10/8/22	17/8/22	7/9/22			- 21		+	+	-	-	+	+	+	-		-		-			+						_	_	-	- 1	-	-	+	+	-	+	+	+						\rightarrow	-	-	4
UA8/7	6/7/22	10/8/22	15/8/22				_	_	-	+	-	-	+	+	-	-	-	-	-	-	2			-	-		_		_	_	-	-	_	-	-	-	+	+	-	-	-		-	-		\rightarrow	_	-	-
FWD Mast	11/7/22	17/8/22	4/11/22	18/11/22		\square			-	+	-	+	+	+	-	-		-	+	-	+				1	200	1						-	-	-	+	+	+	-	+	+					\rightarrow	-	-	4
W/H Mega	29/6/22	21/9/22	30/9/22	28/10/22						_			_	_	_				1																													_	
Launching	1		1							Т	T	Т	Т	Т		-	T	-	Т	1			T										1													T		Т	
Preperation			8/8/22	20/2/23						1				1																																			
Launching			20/2/23	23/2/23									-		-																														1				

Fabrication
Erection and Consolidation

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Outfit to completion



		-22	18-Apr-22 25-Apr-22	y-22	y-22 y-22	V-22	-22	22	52	22	22	22	5-22 5-22	5-22	5-22 5-22	ដ	2 2	-22	ä ä	2	<u>1</u>	<u>-22</u>	v-22	r-22	6-22 6-22	c-22	រុនុ	នុខ
		, A	Apl	Ϋ́́α	Na Na	N.	ž j	<u>اچ</u> ا.	ş ş	ЦĘ I		-Inf	Ĩ	-Au	P	Se .	Sep 5	Sep	5 Š	8	5 B	No.	No	De	õ õ	Dec	09-Jan-23	Jan
Zone / Sub-Zone	Start	Finish 🛱	1 2 1	3 8	8 9	ส เ	88	a s	ន់ ន់	8 :	1 8	Ω β	8	5	່າ ສ	S :	a a	8 8	<u>8</u> 8	14 8	3 8	19 19	17	8 8	ង់ ង់	8 8	18	ង់
Zone 2 - Sub-Zone 0202 - Generator Room and Escape	11/4/22	29/8/22																										
Zone 1 - Sub-Zone 0103 - Workshop and Stores	12/4/22	28/10/22																										
Zone 3 - Sub-Zone 0304 - Sewage Treatment Plant (STP) and Escape	12/4/22	12/9/22				П		П						П												\square		
Zone 2 - Sub-Zone 0203 - Engine Room and Escape	13/4/22	14/9/22				П		П						П														$\neg \neg$
Zone 2 - Sub-Zone 0201 - Double Bottom Voids and Tanks (Aft)	22/7/22	18/8/22																								\square	++	$\neg \neg$
Zone 3 - Sub-Zone 0309 - Engine Control Room	22/7/22	18/8/22		++		+	-	+		++						\square		+									++	++
Zone 3 - Sub-Zone 0301 - Double Bottom Midship Tanks and Voids	12/8/22	9/9/22		++		++		+																			++	++
Zone 3 - Sub-Zone 0302 - Tank Top Void and Midship Tanks	12/8/22	24/8/22	++	++		++	+	+		++				++			+	+	+	+			++				++	++
Zone 3 - Sub-Zone 0303 - Pipes and Cables Room	24/8/22	19/9/22	++	++		++	+	++		++								+	+				++				++	++
Zone 3 - Sub-Zone 0305 - Stabiliser Room (S)	24/8/22	19/9/22	++	++		++	+	++		++			+		+			+	+				++				++	++
Zone 3 - Sub-Zone 0306 - LNG Tank Room	24/8/22	14/9/22	++	+		++	+	++	+	++			+		+			+	+	++			++				++	++
Zone 3 - Sub-Zone 0307 - Hydraulics Room and Escape	24/8/22	13/9/22	++	+	+	++	+	+	+	++			+		+	+		+	+	++			++			\vdash	++	++
Zone 3 - Sub-Zone 0308 - Stabiliser Room (P)	13/9/22	3/10/22	++	++	+	+	+	⊢+	+	++	+	\vdash	+	+					+	+			++	+		\vdash	++	++
Zone 4 - Sub-Zone 0401 - Fore Tanks and Voids	13/9/22	10/10/22	++	+	+	+	+	+	+	++	+	\vdash	+	+	+					+	+		++	+		\vdash	++	++
Zone 4 - Sub-Zone 0402 - Auxiliary Machinery Room (AMR)	13/9/22	7/10/22	+ +	+	+	╉	+	+	+	++	+	\vdash	+	+	+		+			+			++			\vdash	++	++
Zone 4 - Sub-Zone 0402 - Auxiliary Machinery Noom (Auxily)	13/9/22	5/10/22	++	+	+	++	+	++	+	++	+		+	++	+		+	++		++			++			\vdash	++	++
Zone 9 - Sub-Zone 0904 - 2nd Passenger Deck (F)	23/9/22	6/1/23	++	++	+	╋	+-	⊢+	+	++	+		+-	⊢	+	⊢₽		++	+							┢╾╋╼	++	\rightarrow
	4/10/22	21/10/22	++	+	+	++	+	+	+	++	+		+	++	+	+			+	++						\vdash	4++	++
Zone 1 - Sub-Zone 0101 - Tank Top - Voids and Tanks (Aft)			++	++	_	++	+	+	_	++			+	++	+	++	+		_	++			++			\vdash	++	\rightarrow
Zone 1 - Sub-Zone 0102 - Steering Gear and Escapes	4/10/22	27/10/22	++	+	_	++	+	+	_	++	+		+	++	+	+	+		_	++			\vdash		_	\vdash	++	\rightarrow
Zone 5 - Sub-Zone 0501 - Fore Peak Water Ballast and Void Tanks	4/10/22	18/10/22	++	++	_	++	_	+	_	++			_	++	_	+	_		_	$ \rightarrow $			+			⊢⊢	++	\rightarrow
Zone 5 - Sub-Zone 0502 - Bow Thruster Room	4/10/22	20/10/22	++	++	_	++	_	++	_	++	+		+	++	_	++	_		_	+	+		\vdash			\vdash	++	\rightarrow
Zone 5 - Sub-Zone 0503 - Bow Ramp Space	4/10/22	20/10/22	++	++		++	_	++	-	+	+		_	\square	_	\square	_		-	\square						\vdash	++	\rightarrow
Zone 6 - Sub-Zone 0606 - Stairs, Bunker, Escape, Locker, Vent and Lift (P)	7/10/22	24/11/22	++	++		++	_	++		++	+		_	\square	_	\square	_			\square						\vdash	++	\rightarrow
Zone 6 - Sub-Zone 0601 - Stores, Escape, Vent and Bunker (S)	20/10/22	9/11/22	++	+		++	_	++		++			_	\square	_	\square	_	+	_							\vdash	\rightarrow	\rightarrow
Zone 6 - Sub-Zone 0602 - Stair,s Escape, Vent, Lift and Access Trunk (S)	20/10/22	15/11/22	+	+		\square	_	\square		++			_	\square	_	\square		\square								\square	\downarrow	\rightarrow
Zone 6 - Sub-Zone 0603 - Vent and Stairs (S)	20/10/22	9/11/22	+	+		++	_	+		++	$ \rightarrow $		_	\square	_	\square	_	+								⊢⊢	\rightarrow	\rightarrow
Zone 6 - Sub-Zone 0604 - Vehicle Deck	20/10/22	3/11/22		\square		\square		\square		++				\square		ш										\square	\rightarrow	\rightarrow
Zone 7 - Sub-Zone 0701 - Funnel and Casing (S)	20/10/22	11/11/22		\square		\square		\square		++				ш		ш										\square	\rightarrow	\rightarrow
Zone 7 - Sub-Zone 0702 - Funnel and Casing (P)	20/10/22	4/11/22																										
Zone 8 - Sub-Zone 0801 - Aft Lounge	20/10/22	11/11/22																										
Zone 8 - Sub-Zone 0802 - Lounge and Cafeteria	20/10/22	12/1/23																										
Zone 8 - Sub-Zone 0803 - Galley	20/10/22	14/11/22																										
Zone 9 - Sub-Zone 0902 - 2nd Passenger Deck (Mid)	27/10/22	20/1/23		ТТ		П		П		ТТ				ГТ		ГТ											TT	
Zone 6 - Sub-Zone 0605 - Stores, Escape, Vent and Bunker (P)	3/11/22	23/11/22		Т		П		П		ТТ				П		П										\square		$\neg \neg$
Zone 6 - Sub-Zone 0607 - Stairs, Escape and Stores (P)	3/11/22	21/11/22				П		П						П		П										\square		
Zone 9 - Sub-Zone 0901 - 2nd Passenger Deck (A)	9/11/22	1/12/22				П								П		П												$\neg \neg$
Zone 6 - Sub-Zone 0608 - Vent and Stairs (P)	10/11/22	28/11/22				П								П		П										\square		
Zone 6 - Sub-Zone 0615 - Stairs, Escape, Lift, Vent and Access (S)	14/11/22	21/12/22		+		\square		\square		++				\square		\square											++	$\neg \neg$
Zone 6 - Sub-Zone 0609 - Aft Mooring (S)	17/11/22	5/12/22		++		\square		+						\square													++	++
Zone 6 - Sub-Zone 0610 - Deck 4 Fr 87 - Fr 137 (S)	17/11/22	7/12/22		+		\square		\square						\square		\square											++	$\neg \neg$
Zone 6 - Sub-Zone 0611 - Mezzanine Deck	17/11/22	9/12/22		+		++	+	+		++			+	+	+				+	+			\vdash				++	++
Zone 6 - Sub-Zone 0612 - Aft Mooring (P)	17/11/22	5/12/22		++		+				++				\square		\square											++	++
Zone 6 - Sub-Zone 0613 - Stairs, Escape, Vent and Lift (P)	5/12/22	5/1/23	++	++		++	+	++		++			+	++	+	++	+	+	+									++
Zone 6 - Sub-Zone 0614 - Deck 4 Fr.87 - Fr.137 (P)	5/12/22	21/12/22		+		+		+		++	+		+	+	+	+	+			+							++	+
Zone 6 - Sub-Zone 0616 - Stairs, 1st Aid, Vent, WC and Locker (S)	5/12/22	21/12/22	++	+	+	++	+	+	+	++	+		+	++	+	+	+	++	+	++			++			\vdash	++	++
Zone 11 - Sub-Zone 1101 - Wheelhouse	5/12/22	21/12/22		+	+	+	+	+	+	++	+		+	+	+	+	+	+	+	+			++			\vdash	++	++
Zone 9 - Sub-Zone 0903 - Air Handling Machinery Room	9/12/22	6/1/23	++	++	+	+	+	+	+	++	+	\vdash	+	++	+	+	+	+	+	+			++			H	++	++
Zone 10 - Sub-Zone 1001 - Bridge (A)	9/12/22	6/1/23	++	+	+	++	+	⊢+	+	++	+		+	++	+	+	+	++	+	++			++			\vdash		++
Zone 10 - Sub-Zone 1001 - Bridge (A) Zone 10 - Sub-Zone 1002 - Emergency Generator Room (EGR) and Air Handling Machinery	9/12/22	6/1/23	++	+	+	++	+	+	+	++	+		+	++	+	+	+	++	+	++	+		++			\vdash		++
Zone 10 - Sub-Zone 1003 - Bridge (F)	23/12/22	20/1/23	++	+	+	++	+	+	+	++	+	\vdash	+	+	+	+	+	++	+	++	+		++			\vdash		
	23/12/22	20/1/23		1 1	_		-		-				-	- 1	-	- 1	-		-								_	

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Issues

Issue

Challenges

- Manpower.
- Change management.
- Materials.

Successes

- Complete BOM now available.
- Unit 49/50/51 completed as block ready to be erected week commencing 25/04/2022.

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802 Progress & Trackers



Progress to be measured using below method with percentage completion against each activity.

ITEM TYPE	ZONE	SUB-ZONE	PROJECT DOCUMENT TITLE	PROJECT DOCUMENT NUMBER	TAG NUMBER	TAG DESCRIPTION (IF ANY)	REVISION (IF NECESSARY)	STATUS	Manufactured (YES/NO)	MA Workpack number	IN Workpack number	Fitted (YES/NO)
Foundation	01		Key plan of Foundations - 0102	- 6625-0102-HO-DW-263-1 00		FOUNDATION FOR EF-1 STEERING GEAR ROOM - EXHAUST FAN	N/A	VALID	YES	802MaS0102Hw04	4 802InS0102Hw04	NO
Foundation	01		Key plan of Foundations - 0102	- 6625-0102-HO-DW-263-1 00		FOUNDATION FOR H-28 ELECTRIC AIR HEATER - FAN ASSISTED	N/A	VALID	YES	802MaS0102Hw04	802inS0102Hw04	NO
Foundation	01		Key plan of Foundations - 0102	- 6625-0102-HO-DW-263-1 00		FOUNDATION FOR H-29 ELECTRIC AIR HEATER - FAN ASSISTED	N/A	VALID	YES	802MaS0102Hw04	602InS0102Hw04	NO
Foundation	01		Key plan of Foundations - 0102	- 6625-0102-HO-DW-263-1 00		FOUNDATION FOR SF-1 STEERING GEAR ROOM - F.A. SUPPLY FAN	N/A	VALID	YES	802MaS0102Hw04	802inS0102Hw04	NO
Foundation - Vera Navis	01		WZ01-HO-Vera Navis Drawing	WZ01-HO-Vera Navis Drawing		for Steering Gear Motor Controller No.2 & Steering Gear M	N/A	VALID	NO	802MaS0102Hw04	802InS0102Hw04	NO
Foundation	01		Key plan of Foundations - 0102	- 6625-0102-HO-DW-263-1 00	0102-FND-E-DOOR201-ACCU	REINFORCEMENTS OF FOUNDATION FOR WT DOOR ACUMULATOR 20L	N/A	VALID	YES	802MaS0102Hw04	802InS0102Hw04	NO
Foundation	01		Key plan of Foundations - 0102	- 6625-0102-HO-DW-263-1 00		FOUNDATION FOR SEMI ROTARY HANDPUMP (LO-098)	N/A	VALID	YES	802MaS0102Hw04	802InS0102Hw04	NO
Foundation	01		Key plan of Foundations - 0102	6625-0102-HO-DW-263-1 00		equipment inch Hand Pump Rotaryinch	N/A	VALID	YES	802MaS0102Hw04	802InS0102Hw04	NO
Lifting Eye	01		Detail dwgs for Structures for Lifting Eyes-0102	6625-0102-HO-DW-452-1 00		LIFTING EYE TYPE A_SWL0.5	N/A	VALID	YES	802MaS0102Hw06	5 802InS0102Hw06	NO
Lifting Eye	01		Detail dwgs for Structures for Lifting Eyes-0102	6625-0102-HO-DW-452-1 00		LIFTING EYE TYPE A_SWL0.5	N/A	VALID	YES	802MaS0102Hw06	5 802InS0102Hw06	NO

				<u>Circi</u>	ig cye	+
				Activity %		
ctivity ID	Activity Name	Start	Finish	Complete	Discipli	in
Manufacturing		24-Jan-22 A	15-Sep-22			
Zone 1 - Stern		19-Apr-22	09-Sep-22			
Sub-Zone 0101 - Tank	Top - Voids and Tanks (Aft)	19-Apr-22	22-Aug-22			
Hull Outfit Manufact	uring	19-Apr-22	22-Aug-22			
802MaS0101Bm01	Sub-Zone 0101 - Hull Outfit Manufacturing Start	30-May-22		0%	HM	
802MaS0101Hw01	Sub-Zone 0101 - Manufacture Pipe Pens	30-May-22	22-Aug-22	0%	PM	
802MaS0101Hw02	Sub-Zone 0101 - Manufacture Pipe Supports	30-May-22	22-Aug-22	0%	HM	
802MaS0101Hw03	Sub-Zone 0101 - Manufacture Ldrs	30-May-22	22-Aug-22	0%	HM	Ī
802MaS0101Hw04	Sub-Zone 0101 - Manufacture Manholes	30-May-22	22-Aug-22	0%	HM	
802MaS0101Hw15	Sub-Zone 0101 - Manufacture Manholes no 88 & 91- CR 446	30-May-22	03-Jun-22	0%	HM	Ī
Pipework Manufactu	ring	28-Apr-22	28-Apr-22			Î
Sub-Zone 0102 - Steer	ing Gear and Escapes	08-Jun-22	31-Aug-22			Ĩ
Hull Outfit Manufact	uring	08-Jun-22	31-Aug-22			
802MaS0102Bm01	Sub-Zone 0102 - Hull Outfit Manufacturing Start	08-Jun-22		0%	HM	
802MaS0102Hw01	Sub-Zone 0102 - Manufacture Pipe Pens	08-Jun-22	31-Aug-22	0%	PM	
802MaS0102Hw02	Sub-Zone 0102 - Manufacture Elect Pens	08-Jun-22	31-Aug-22	0%	HM	Î
802MaS0102Hw03	Sub-Zone 0102 - Manufacture HVAC Pens	08-Jun-22	31-Aug-22	0%	нм	Ī
802MaS0102Hw04	Sub-Zone 0102 - Manufacture Major Seats	08-Jun-22	31-Aug-22	0%	HM	1
802MaS0102Hw05	Sub-Zone 0102 - Manufacture Elect Seats	08-Jun-22	31-Aug-22	0%	HM	
802MaS0102Hw06	Sub-Zone 0102 - Manufacture Lift Eyes	08-Jun-22	31-Aug-22	0%	HM	Ī
802MaS0102Hw07	Sub-Zone 0102 - Manufacture Pipe Supports	08-Jun-22	31-Aug-22	0%	HM	Î
802MaS0102Hw08	Sub-Zone 0102 - Manufacture Cable Tray Supports	08-Jun-22	31-Aug-22	0%	нм	Ī
802MaS0102Hw09	Sub-Zone 0102 - Manufacture HVAC Supports	08-Jun-22	31-Aug-22	0%	HM	
802MaS0102Hw10	Sub-Zone 0102 - Manufacture WW/Stairs/Pltfms, Ldrs/Rails	08-Jun-22	31-Aug-22	0%	нм	Ī
802MaZ0100Hw01	Sub-Zone 0102 - Manufacture Unit 82/83/84 Additional Stiffeners	08-Jun-22	14-Jun-22	0%		Ī
Sub-Zone 0103 - Work	shop and Stores	17-Jun-22	09-Sep-22			Ì
Hull Outfit Manufact	uring	17-Jun-22	09-Sep-22			Ī

Extract from tracker above.

- Trackers created direct from BOM.
- 4 trackers 1 per discipline, Hull Outfit, Piping, HVAC and Electrical.

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OORs



Major OORs listed only.

- OOR 267 Equipment in Bunker station to be zone 1 Valve block relocated to airlock but still being worked for final solution (potential large cost to purchase Atex rated valves).
- OOR 341 Accessibility to Equipment in ER & GR Ongoing with CRs raised to address some issues but physical walk round to be agreed with CMAL for closure.
- OOR 531 Access to area behind fuel oil purifier CR 499 created to fix
- OOR 532 Access issues beneath lub oil purifier platform CR 501 created to fix
- OOR 552 Panels and small E/L items shown in the 3D model not recessed as per our Specification — Under investigation
- OOR561 Orientation and access to stbd generator quick closing valve Orientation of Valve will be changed.
- OOR 568 Diesel fuel system overflow venting arrangement CR being raised to correct error within ICE model.

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- Stability
 - MCA have provisionally given their approval for the weathertight partial bulkhead on the ECR stairs, subject to approval of the escape routes. From stability perspective it is fine, and the solution meets all regulatory requirements, so we are confident it will be approved
 - Cross flooding pipe due to arrive in yard 23rd May, with installation to follow thereafter
 - Awaiting updated calculations for damage stability (Water on Deck) following updates to ECR partial bulkheads and the doors on the car deck
- Weight
 - Current predicted weight is 3556T (was 3562T in last updated). Target is 3553T.
 - 106T remains to be validated (18T validated last month)
 - Total validated amount is 3,449T, 97% of total
 - We still have 44T of contingency (margin) in our total predicted weight.
 - Validation on foundations & supports and small items are ongoing since the last revision. (The number of items to be validated are higher compared to system weights, and new weight list release will be after more maturity)
 - As of mid-March, weight distribution study started to provide feedback for launching calculations and docking.

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- FMEA CMAL / CalMac to confirm if this is still required
- Machinery list (including serial numbers) is WIP. The commissioning team are producing and will also record last maintenance date where appropriate.
- Operations Manual Still awaiting feedback from CMAL
- As built drawings for P&IDs and Compartment Arrangements.

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Lloyds and MCA plan approval update



Under Review with Lloyds	Date Sent to LR	Note
Anti Fouling Plan	15/09/2021	Part of the Econotation, shall be approved for ship completion hand over date as part of larger pack.
Cargo Securing Manual	01/02/2022	
Damage control plan	20/04/2022	
Damage control plan MCA	20/04/2022	

Under Review with MCA	Date sent to MCA	Note
Emergency Towing Booklet	11/04/2022	
Accommodation Layouts	15/02/2022	
Accommodation Handrailing	31/01/2022	Will be finalised after Escape route approval
Crew Accommodation Plan	15/02/2022	
Fire Control Plan	20/04/2022	Updated inline with Structural Fire protection Plan
Structural Fire Protection Plan	20/04/2022	MCA comments addressed
Fixed Fire Extinguishing Syst. ECR & Pipes, Cables Transformer Room	04/11/2021	Provisionally agreed require new Type Approval Certificate from ^[redacted] for system as current cert is out of date.

To Be submitted to MCA (in Work)	Date sent to MCA	Note
Stability book	Draft End Q2 2022	Finalise after incline
Fire & Deck Wash System	Under 2nd internal review	Reworked from initial review will be sent by 22/04/22
CALMAC Muster Lists (Mode 1-4)	CMAL	
CALMAC SAR Plan	CMAL	
801&802-LNGPac Operating & Maintenance Manual LNGPac-	Adam to confirm	[redacted] Updating
H149-D9	requirement	
Emergency Low level lighting	submit after escape routes	
	update	
Escape Route Plan	LR Re producing escape	To clarify escape times with as built GA.
	documentation	

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- CMAL Drawing Approval update
 - 68 Arrangement Drawings to be approved by CMAL
 - 14 approved by CMAL
 - 24 submitted for review (Pulled back from CMAL and under review again due to errors in coordination), schedule for re-submission to be agreed in week 16
 - 30 still to be reviewed, schedule for submission to be agreed in week 16
 - *Outfitting team currently working with CMAL to review all drawings for changes to model to ensure approval and coordination with Outfit Contractor*
 - 9 Systems Approved 23 Systems to be approved by CMAL, schedule for completion to be agreed with CMAL
- Contract Specification update
 - There have been various updates within the document which require to be internally reviewed and then presented to CMAL for agreement.

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Drawing status update

Below is a table detailing the current list of required drawings and The ones marked with a P (57 in No.) in the column AB are the proposed "as built" drawings to be provided. This list will need to be agreed with CMAL.

Brawing / Document		1	100	IV	AB	-	Steel Structure				IV.	AB	1 (F	lectrical Outfit	1		in ie	v i z	AB
General Arrangement Plan	P	P	P	P		-	Midship Section	P	P	P		110		ght in engine room	P		(P)	<u> </u>	
Docking Plan	P	1	P			-	Longitudinal sections	P	P	P		-		ub-switchboards and power in Accommodation	P		ie – –	F	-
Capacity Plan	P	P	P	P			Decks	P	P	P			Ĕ	attery-less telephone	P		(e t		
Hydrostatic Data (tables)	l.	P	P	1 [.]		-	Bulkheads	P	P	P		-	E P	rovision cooling, cable diagram	P		(P	F	
Sounding Tables	-	1 [.]	P	-		-	Shell Expansion	P	P	P		-	L A	ir compressors, cable diagram	P		(P	F	5
Model Test Report	P	P					Deckhouses	P	P	P			E	ire detection and alarm, cable diagram	P		(P	F	-
Sea Trials Report	P		P				Main Engine Foundation	P	P	P			11	ght in accommodation	P		(P		
Summary of Damage Stability Calculation	P	P	P				Bow Construction	P	P	P			S	ub-switchboards & power installation, Deck	P		Ć		
Summary of Damage Stability Calculation Stability Booklet and Loading Manual	P	P	P			_	Stern Construction	P	P	P			- L	ight on Deck	1P				
Damage Control Plan and Booklet	P	P	P	P		_	Non Destructive Testing Plan	P	P	P			10	tegrated monitoring alarm and control system	1P		-+		
Freeboard Plan	P	P	P	P		-							E	SD system for Bunkering	P		-+	F	5
Ship's Name	6	1.	P	· ·	-		Outfitting				IV	AB	- hit	& Comms. System Diagrams	10		-+		
	5	-	0	-	-	_	Funnel mark				1.4	AD			5	-	<u> </u>		-
Draught Marks and Paint Lines Markings on Shell, Aft	P	-	P	-		_	Steering equipment (rudder; gear)	P					님	ght for public area perating Manual	P				
	P		P			_		P					0	perating Manual	P		<u> </u>		
Body Plan, Fore and Aft	P		P	_		_	Mooring arrangement	P		_			-						
Inventories, Spare Parts and Tools, Machinery Part (list)	P		P	_		_	Deck machinery arrangement fore & aft	P		P		_	-						
Inventories, Spare Parts and Tools, Deck Part (list)	P		P			_	Hydraulic piping diagram for deck and cargo equipment	P	_	P		P	-						
Begister of Lifting Appliances Towing Plan Booklet	P		P			_	Arrangement of anchors	P	Р				-						
Towing Plan Booklet	P		P				Anchor chain design	Р											
							Arrangement of elevators	Р											
Machinery Outfitting				IV I	AB		Door and hatch plan	P				P							
Engine room arrangement	P		P	P	P		Plan of manholes and drain plugs	P		P		P							
Arrangement of Engine Room	P		P		P		Arrangement of bow door and bow ramps	P											
Arrangement of Emergency Genset room	P		P				Arrangement of stern ramps	P											
Arrangement of Engine Control Room	P		P				Arrangement of deck stores	P											
Arrangement of Steering Gear	P		P				Arrangement - garbage treatment	P											
Arrangement of Shafting	P		P				Arrangement drawings - open decks	P				P							
Arrangement of Bow Thruster Compartment	P		P				Arrangement drawings – cargo hold decks	P				P							
Arrangement of all Workshops, Machinery and Auxiliary Machinery																			
Store Booms	P	1	P	1	1	1	Arrangement drawing of all lifting devices	P		P	1	1	1						
	P		P				Painting specification	P											
Arrangement of Hydraulic Booms Machinery Bernoval Boutes Arrangement	P		P				Painting specification Cathodic protection	P											
Arrangement of Small Tanks	6	-	10	-	-	-					-	-							
Pipe marking	6		1 in			_	Fire Fighting / Safety Outfitting				IV	AB							
	5	-	10	10	0	-						IND .	-						
Diagram of bilge system	10	-	P	10	10	-	Structural fire protection plans	P .		P	0	-	-						
Diagram of ballast system	10	-	P	P	10	_	Fire Control plan	P		P	F	-	-						
Diagram of remote controlled valves	P		P	-	P	_	Safety Plan	P		P	P	_	_						
Diagram of quick-closing valves	P		P	_	P	_	Evacuation Analysis Escape Routes Drawing	P		P	P		_						
Diagram of air pipes	P		P	-	P	_	Escape Houtes Drawing	P		P	Р	_							
Diagram of sounding pipes	P		P	Р	P	_	Arrangement of life saving equipment	P	_			P	_						
Diagram of tank monitoring	P		P	_	P	_	Insulation plans	P	P	_		_	_						
Diagram of potable water system	P		P	_	P	_	Diagram of local application fire fighting	P	Р	P		P	_						
Diagram of sanitary water system Diagram of black and grey water system	P		P		P	_	Diagram of CO2 fire fighting	Р	Р	P									
Diagram of black and grey water system	P		P		P		Diagram of water mist systems for fire fighting	P	P	P									
Diagram of fire extinguishing system	P		P		P														
Diagram of scupper and decks drainage	P		P		P		Accommodation, Ventilation	1			IV	AB							
Diagram of the LNG / fuel gas system	P		P		P		Accommodation plans	P											
Diagram of the LNG loading system	P		P		P		Public sanitary spaces	P											
Diagram of LNG Gas Leak Detection	P		P		P		Arrangement of Store rooms	P		P									
Diagram of LNG System Cold Spot Detection	P		P		P		Key system/key plan	P		P		P							
Diagram of the nitrogen system	P		P		P	_	Interior specification (from architect)	P		P									
Diagram of the fuel oil system	P		P		P		Signage plan	P		P	1	1							
Diagram of fuel oil vent and overflow	P		P		P		Beck Covering plan	P			1	1							
Diagram of fuel oil transfer system	P		P		P		Window plan	P			1	1							
Diagram of separation system	P	-	P	-	P	-	Arrangement – catering equipment, galleys and pantries	P				-	1						
Diagram of fuel and lub, oil leakage system	te.	1	TP.	1	1P	-	Provision rooms	İP.	P		1	1	-						
ang an analas on earage system	Ľ	1	T.	1	Ľ	-	Heat balance diagram for accommodation HVAC (Heating and	Ľ	r I		1	1	1						
Diagram of lubricating oil system	le	1	le l	1	le l	1	cooling, all affected compartments).	P			1	1	1						
and a second and a second and a second	1.	-	1	1	t'	-	Diagram - HVAC – system, including schematic of all	l.				+	1						
Disgram of sea water cooling systems		1		1		1	accommodation supply and exhaust yent ducts	le l			1	1	1						
Diagram of sea water cooling systems Diagram of fresh water cooling systems	16	1	16	+	16	-	accommodation supply and exhaust vent ducts. Ventilation plan – cargo/hold; ventilated rooms	10	r –		+	-	-						
Diagram of chilled water system	5		10		15	-	ventration plan – cargomolo, ventrated rooms						-						
	12	-	19	-	100	-							-						
Diagram of hot water system	P		P		P		Electrical Outfit / Navigation		11		IV	AB							
Heat Balance	P		P				Arrangement of wheelhouse	P	P			P							
Diagram of compressed air system	P		P		P		Arrangement of manoeuvring console	P				P							
Diagram of exhaust pipes	P		P		P		Arrangement of radar and signal mast	P				P							
Diagram of engine room ventilation	P		P		P		Arrangement of navigation and signal lights	P	P			P							
Diagram of flap control	P		P		P		Arrangement of all electrical rooms	P	P										
Calculation of engine room ventilation	P		P				Electrical Common System												
Mounting of main engines and gensets	P		P				Single Line Diagram	P		P		P							
Insulation plan engine room	P		P				Electrical balance	P											
Lubrication chart	P		P		-		Main switchboards	P		P	1	P							
Maker's drawings for main engines and gensets			1P			1	Emergency switchboard	P		P		P							
All other Makers' drawings	1	-	P	-		-	Electrical Distribution Systems	-		-	-	T.	1						
	-	-		-		-	Sub-switchboards & power installation in engine room	P		P	1	P							
							Connection diagrams	ie –		•		tie -	-						
							Connection diagrams Cable diagrams	6			-	16	-						
								1 · · · ·			-	15	-						

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▲ 118 TECHNICAL TRAINING FOR CREW

The Builder will provide on board training in machinery and equipment for key staff. The Builder will also provide training as detailed in the Requirement Specification and Technical Schedule, and will include:

LNG Systems	Up to 10 people (3 courses)					
Navigation and Communication Systems	6 people					
Communications Systems	6 people					
Generators & Prime Movers	Up to 10 people (3 courses)					
Propeller Units	Up to 10 people (CPP)					
Power Management System	6 people					
Alarm, Monitoring & Control Systems,	6 people					
Lifesaving Equipment	6 people					

This will be done separately from the commissioning process.

The training is to be in English and held by specialist commissioning engineers from the Builder, or representatives from sub-contractors, prior to delivery and signed off by Buyers.

Specialist LNG training (approx. 1 week per ship) will be provided to ship's crew.

Training will also include Ship Specific ECDIS training for Deck Officers.

Current Status

• Proposed [redacted] dates have recently been received, and now with CMAL for agreement

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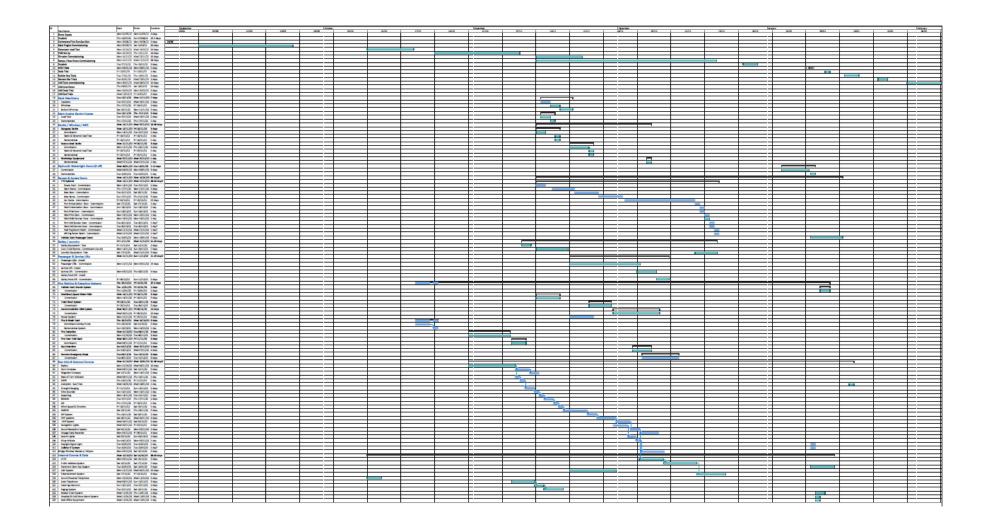


- [redacted] are onboard conducting pre-commissioning checks on the switchboards.
- The following tests have been witnessed by Lloyds:
 - 415V switchboard main circuit breakers protection settings.
 - 415V switchboard busbar ductor testing.
- Circuit breaker protection settings and ductor testing will be carried out on all switchboards over the coming weeks.
- Shore power will be connected to the 415V switchboard for functional checks.
- 415/240V transformers will be inspected and insulation resistance checked. Transformers will be energised when shore power is available
- 240V & 24V UPS's in ECR will be inspected and energised.
- First commissioning meeting scheduled for 21 April.

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Quality



OOR closure

OOR's				
Closed	379			
Open*	90			
Will be done	121			
Total	590			
*Open breakdow	vn - (Note: ^cl	ear demarcation under	review as often OC	ORs have multiple inputs between Dept)
Ops				not started, 3 are part of Accessibility
Eng	43^	9 Under review, 23 h	ave responses but	not started/agreed, 11 are part of Accessibility
QC	7			
DD	1			
Comm	2			
TOTAL	90			
To tackle the " V	Vill be done" it	tems. Composite team	to be assembled to	o systematically drive closure of open "Will Be Done" items, Driven by QC
DC Surveys –	Units 49,5	50 and 51 surveys com	plete. Dimensions l	being checked to provide dimensions to mark the Greens in readiness for erection.
7 Deck -	Insulation	surveys completed in	readiness for MCA	inspection due in April.
Painting -		fairing ongoing in readi <s and<="" being="" surveyed,="" th=""><th></th><th>ished to provide guidance to bring the coatings up to spec.</th></s>		ished to provide guidance to bring the coatings up to spec.
Surveys-	67 survey	vs conducted. (35 Steel	work, 12 Pipework	x, 10 Outfitting, 6 Paint and 4 Electrical)
	NDT			
	801	MPI	9	All Passed
	001	DPI	2	1 Pass, 1 Failed (reworked)
		UT	1	Pass
		0.		
	802	MPI	2	All passed
		DPI	3	All passed
Lloyds -	801. Hvdi	raulic Room. Insert on I	Deckhead	Passed
		eelhouse top, straightne		Passed
ISO Auditing-	5 internal	audits conducted. 1 Su	upplier Audit condu	cted
······································		dit Surveillance Audit c		
Processes -	Process a	approved for the TQ pro	ocess, this will allow	v Fast Tracking of non-critical changes on board and key focus of the new approach to

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Top Risks

Risk No	Risk Category	Risk Owner	Risk Description	Action Planned	Controls Confidence Levels	Current Impact	Current Likelihood	Current Risk Score	SCORE AT LAST REVIEW	Date Last Reviewed	Change explanation
42	PROJECT RISK	[redact	Performance of on site subcontractors impacts programme	 Ensure access dates are achieved to minimise out of sequence working Ensure all emergent change is managed through VO Ensure material supply issues are addressed Stores to provide complete kits 	Reasonable	50	5	250	50	07/04/2022	organisations in place; controls remain WIP; risk of out of sequence work remains
2	PROJECT RISK	[redacted]	There is a risk that we are unable to complete Critical compartments in line with the plan due to emergence of 'unscoped changes'.	 Extend the change process to [redakiny changes recommended by ICE to be signed off by Engineering Director and included a clear justification for change with impact analysis. Create a rule that no change will be accepted for 801 unless it Safety critical, results in an early life failure of its customer paid change. High impact change for 801 must be signed off by CEO Start meetings to review change by zone / system (include Engineering / QC / OOR in first instance) 	Reasonable	50	5	250	250	07/04/2022	Mod Sheets: 400 sheets available - 60 % of this change understood and analysed - remaining 40% impact not understood. Lack of visibility of extent of this change. 'Pipes: Receive Pipe changes via CSV file which including significant change from pedand potential rip out of systems in place.
77	PROJECT RISK	[redacted]	There is a risk that if all OORs are not agreed as closed with CMAL that acceptance of the vessel will be difficult to achieve.	Work with Operations to close OORs with agreed solutions Work with Engineering to conclude solutions to OORs without solutions Work with Engineering to conclude solutions to OORs without solutions A. SMT focus to be led by Head of Compliance S. Maintain regular reviews Ensure agreed OORs are scoped within the programme and workpackaged T. Ensure future OORs are captured and actioned S. Compliance involved in closing out / ensuring work is in plan S. Customer engagement (ongoing)	Insufficient	50	5	250	250	07/04/2022	change of focus / ownership to drive closure
79	PROJECT RISK	[redacted	There is a risk of late change due to design errors. These errors may be mistake, missed scope or non-conformances to requirements / spec. The non-conforming escape routes, stability and fuel system are examples.	 Complete review of single line diagrams with CMAL. complete all plan approvals. Review critical installations with LR & MCA where appropriate. Complete update to contract technical spec to capture any agreed deviations and to identify any additional varaitions which need to be formalised or resolved. Continue to work with the relevant parties (MCA, LR and CMAL) to derisk the design and agree acceptable concessions. 		50	5	250	200	07/04/2022	
4	Production	[redacted]	There is a risk that the programme is impacted due to a lack of buy -in from work force to deliver the plan. This includes the fitness of our workforce to deliver the challenge ahead (mature workforce)	 Employee engagement sessions planned for January 2022, planned for week 3 Provide visibility of the plan - rollout week 2 (for next 6 weeks) Finalise allocation of supervisors to areas for start back in January - rollout week 02 Performance management in place in January 2022 	Reasonable	50	4	200	250	07/04/2022	Effectiveness of re-organisation to be measured

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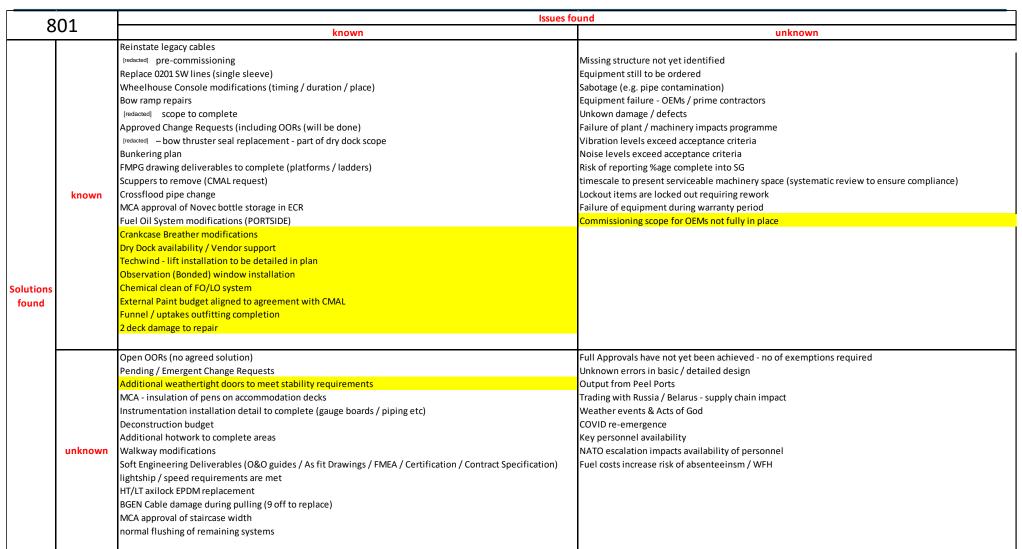
Top Risks

Risk No	Risk Category	Risk Owner	Risk Description	Action Planned	Controls Confidence Levels	Current Impact	Current Likelihood	Current Risk Score	SCORE AT LAST REVIEW	Date Last Reviewed	Change explanation
41	PROJECT RISK	[redacted]	(redebunkering requires modifications as risk assessment has not yet been undertaken	1. Attend [redacted] to identify work to be done 2. Confirm that all actions from [red are closed 3. Identify [redactupp]iers 4. Conduct initial risk assessment and action issues as required - Consider whether a Subject Matter Expert should be used. 5. Identify potential bunkering location 6. Engage with all appropriate parties (including SME to complete risk assessment) 7. Conduct full risk assessment.	Limited	50	4	200	30	07/04/2022	PROMOTED following Risk Reviews
70	Engineering		there is a risk that there remains a non compliant axilock that has not been picked up as part of the review and modifications that have been issued.	 Review status of all remaining axilocks on the ship ensure that the Change / Mod Sheets to remove axilocks have been implemented and signed off. 		50	4	200	150	07/04/2022	6/3/22 There have been extensive studies carried out by [redacted] We are waiting on the results of an additional review into the [redacted]
8	Engineering		There is a risk that the commissioning programme is delayed / extended due to impact of further changes	Change to be tightly controlled to identify schedule impact Z. Impact assessments to be completed and held in a register additional review of programme to look at additional activities / niche sequencing impact of programme change on Dry Dock availability / OEM availability to be understood	Reasonable	50	3	150	150	07/04/2022	[redacted5/3/22 - Can we close this risk and absorb it into another 'risk of change causes delay'?
78	PROJECT RISK		There is a risk that late approval of drawings results in additional reworking of progressed areas. This is a risk associated with change process / configuration management	 Close all outstanding approvals with MCA / LR Ensure all new AFC drawings are issued to Operations Ensure all new drawing revsions are included in plan Install 3D model station on ship to provide access to supervisors Close out NC on review of revision levels of drawings with Supervision 	Reasonable	50	3	150	200	06/03/2022	NEW risk Note from [redacted6/3/22 - I think that there is a low risk due to unapproved drawings from LR and MCA, very few remain outstanding. ICE drawings are already approved and available, there should not be any more arriving at AFC (except through managed change). There is a greater risk of late recognition of design errors causing change. I have raised a new risk, 79, for this.
6	Engineering		There is a risk that there are items in the model which are required but do not have a production output drawing from VN, ICE or FMPG. This would lead to late emerging change, late hotwork.	Drawings to be moved to sharepoint Z. Model to be available on the ship Z. Put change manager in place 	Reasonable	50	3	150	200	07/04/2022	Example zone 1002 / 0303 Walkways identified within the model with not information available for Operation to fit. This was identified by operations review the Model and identified missing walkways. Note [reduciati was always intended for there to be no production output for these walkways - this was agreed with [reducted] in 2020. I don't think that this risk is as high as stated here. The ship survey reviewed the ship against the model and should have identified missing items on the ship. Risk likelihood reduced to 3

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Variations to Contract



<u>VTC's</u>	Ŧ	<u>Contract Section</u>	<u>Description</u>	Date Requested	Impact	<u>Comments</u> ▼	<u>Status</u>
<u>LNG-100-</u>	<u>114</u>	<u>section 813:</u> Fire and Wash Deck System	A fresh water fire main, supplied from the vessel's domestic fresh water system, will be provided in the main accommodation area and small bore fire hoses, of nominal 25 mm diameter and not exceeding 15 m length, will be provided at sufficient locations on each deck level to reach all parts of the accommodation This requirement to be deleted	13/11/1/11/11	Requirement to be removed from technical specification		FM to send VTC
LNG-100-	119	N/A	Provision of workshop tools		FM to supply various tools/pieces of equipment for workshop		postponed
LNG-100-	121	<u>section 561 i)</u> passenger lifts	addition of weathertight door for passenger lift on 07 deck				costs to be determined
LNG-100-	123	<u>section 868:</u> shore supply	Addition of a shore supply connection box for 802 only				FM to send VTC
LNG-100-	127		Sanitary/Grey Water System		Re-routing of laundry discharges to grey water tank		under investigation
LNG-100-	<u>128</u>		Quick Release Hatches for shaft inspection in Workshop / Nitrogen spaces				under investigation
<u>LNG-100-</u>	<u>129</u>		Domestic Hot Water		The installation for the potable freshwater which within the contract is stipulated as copper piping. Agreement with CMAL to change to Mapress rather than copper. This is a suitable replacement that is easier to install and maintain and is suitable for use on domestic systems. We have engaged with Lloyds and they do not have any issue with this	specification	FM to send VTC

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CMAL Comments to the Monthly Report



CMAL Comments:

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