



Planning/Programme

Kevin Hobbs and Jim Anderson were invited to a meeting at FMEL on the 24th March 2017 in the newly established "War Room" with the presence of the FMEL Senior Management Team; Chaired by Jim McColl.

There are a number of aspects to report:

- The War Room is fully set up and functioning
- There has been a large effort from the Planning Team to look at the project to date with a view to remedy the time lost
- There has been a significant change in strategy
- Vessel 1 (801) will be launched on 24th August 2017
- Vessel 1 (801) will be completed alongside at FMEL, Port Glasgow target date 28th May 2018
- The full accommodation block for Vessel 2 (802) will be constructed at Inchgreen Dock
- The yard are targeting the launch of Vessel 2 (802) on 17th November 2017
- Vessel 2 (802) will be towed to Inchgreen Dock to be joined up with the accommodation module
- Vessel 2 (802) will be completed alongside at Inchgreen Dock target date 27th July 2018

We can see that there is new energy and commitment around this project from FMEL. The 2 Senior Project Managers from CBC are driving this improvement and the Senior Management Team are fully behind both Projects.

With the new strategy to outfit, commission and complete the 2 Vessels at 2 different sites; the Plans, on paper are credible for an experienced shipyard for a project of this size and complexity. To achieve the delivery dates will require substantial resources (availability of skilled workforce, additional costs) and the very best planning, project management and co-ordination of shipyard workers & sub-contractors. Equally all the sub-contractors and the major equipment must be full resourced and delivered when planned.

There is no provision in the programme for unforeseen events. Planning, completion and approval of the LNG aspects being one of the biggest challenges to the programme at the latter stages of the project.

There is an allowable 80 days under contract for extend the delivery date. FMEL are still targeting the original delivery dates.





Fabrication/Equipment

Shipyard are concentrating on the fabrication and erection of units on Vessel 1.

Vessel 1: Fabrication 77% achieved Vessel 2: Fabrication 56% achieved

LNG Tank, Factory Acceptance Test for Vessel 1 Completed on the 05th April 2017.





Current scheduling for 801 requires the LNG tank on site at FMEL on the 14th June 2017

The LNG Tank for 802 is not due on site until the 4th September 2017.





Contract Milestones

Vessel 1 - 75% Fabrication milestone achieved 31st March 2017 month. 3 half months later than originally scheduled.

Vessel 2 - Next contract milestone is 75% fabrication. As of 13th April 2017 – 56% achieved.

Delivery Dates

Contract dates for Vessel 801 and 802 are 25th May 2018 and 26th July 2018 respectively. The Contract allows the dates to be exceeded by 120 days, giving a delivery date of 22nd September 2018 for Vessel 1 and 23rd November 2018 for Vessel 2, and can be further extended for specific events.

Manoeuvring and Berthing Simulation Tests

Further Simulation trials were carried out at the state of the art simulator suite at the City of Glasgow College on the 27th March 2017. The latest tests were to include the correct vessel dynamic responses. Unfortunately, the correct dynamic responses had not been fed in to the simulator model. The college themselves cannot change the software (the model is built and updated using an external company), as such the tests were not completed, further tests to be carried, date awaited.

Launch and Vessel Names

Vessel 1 – Launch date: 24th August 2017. List of proposed Vessel Names:

- Glen Sannox
- Goatfell
- Hutton
- Glen Iorsa

These names are currently available and have been reserved by CMAL,

Vessel 2 – Launch date: 17th November 2017.

Vessel Names: Pioneer and Columba are currently available and have been reserved by CMAL. Claymore and Caledonia are not available.

Crew Attendance at Shipyard

Requirements for crew attendance at shipyard pre-delivery of vessels to be determined and budgets agreed





Vessel 1 - Production milestones - Actual progress compared with schedule

YARD NO. 801						
Milestone	Original Scheduled Date See Note 1	Revised Scheduled Date See Note 2	Revised Scheduled Date See Note 3	Revised Scheduled Date See Note 4	Actual Date	Comments
Cutting of Steel	15 Dec 2015	15 Dec 2015	-		15 Dec 2015	Achieved on original scheduled date Rev 01
10% Fabrication	18 Apr 2016	13 Jun 2016	-		10 Jun 2016	Achieved 2 months later than original schedule Rev 01 Achieved in line with revised schedule Rev 03
25% Fabrication	14 Jun 2016	26 Jul 2016	-		04 Aug 2016	Achieved 2 months later than original schedule Rev 01 Achieved in line with revised schedule date rev 03
35% Fabrication	15 Aug 2016	12 Sep 2016	-		06 Oct 2016	Achieved 8 weeks later than original schedule Rev 01 Achieved 4 weeks later than revised schedule Rev 03
50% Fabrication	14 Oct 2016	14 Oct 2016			09 Dec 2016	Achieved 2 months later than original and revised schedules
Major Equipment and Lock Out Items Installations	14 Nov 2016	13 Mar 2017 to 18 Jan 2018	-			"Installation" of all the "Major Equipment" has not been commenced on the 14th November 2016 as per original plan. Major items of Main Propulsion were delivered (not installed) on the 19th December 2016; these are the Main Engines, Auxiliary Engines and Shaft Alternators.
75% Fabrication	15 Dec 2016	15 Dec 2016	10 Feb 2017		31 st March 2017	Achieved 3 and a half months later than originally scheduled.
100% Fabrication	16 Jan 2017	16 Jan 2017	16 June 2017			Awaiting new dates from FMEL
Berth Join Up	14 Mar 2017	28 Apr 2017	14 Jul 2017			Awaiting new dates from FMEL
Hull Inspection Prior to Paint	17 Apr 2017	26 May 2017	21 Apr 2017			Awaiting new dates from FMEL
Launch	14 Aug 2017	24 Aug 2017	24 Aug 2017			We expect that the vessel will be ready to launch by this date. However the status of the drawings, outfitting and installation will be several months behind schedule.
Delivery	25 May 2018	29 Jun 2018	25 May 2018			The Contract allows for a delivery date of 22nd September and can be extended for specific events.





Vessel 2 - Production milestones - Actual progress compared with schedule

YARD NO. 802						
Milestone	Original Scheduled Date See Note 1	Revised Scheduled Date See Note 2	Revised Scheduled Date See Note 3	Revised Scheduled Date See Note 4	Actual Date	Comments
Cutting of Steel	15 Dec 2015	15 Dec 2015	-		15 Dec 2015	Achieved on original scheduled date Rev 01
10% Fabrication	18 Apr 2016	13 Jun 2016	-		10 Jun 2016	Achieved 2 months later than original schedule Rev 01 Achieved in line with revised schedule Rev 03
25% Fabrication	14 Jun 2016	02 Aug 2016	-		04 Aug 2016	Achieved 2 months later than original schedule Rev 01 Achieved in line with revised schedule date rev 03
35% Fabrication	15 Aug 2016	26 Sep 2016	-		06 Oct 2016	Achieved 8 weeks later than original schedule Rev 01 Achieved 2 weeks later than revised schedule Rev 03
50% Fabrication	14 Oct 2016	18 Nov 2016	20 Jan 2017		13 Jan 2017	Achieved 3 months later than original schedule Rev 01
Major Equipment and Lock Out Items Installations	14 Nov 2016		ТВА			"Installation" of all the "Major Equipment" has not been commenced on the 14th November 2016 as per original plan. Major items of Main Propulsion were delivered (not installed) on the 19th December 2016; these are the Main Engines, Auxiliary Engines and Shaft Alternators.
75% Fabrication	15 Dec 2016	19 Jan 2017	05 May 2017			Awaiting new dates from FMEL.
100% Fabrication	16 Jan 2017	20 Feb 2017	20 Oct 2017			Awaiting new dates from FMEL
Berth Join Up	14 Mar 2017	05 Jan 2018	14 Dec 2017			Awaiting new dates from FMEL
Hull Inspection Prior to Paint	17 Apr 2017	02 Feb 2018	24 Nov 2017			Awaiting new dates from FMEL
Launch	12 Oct 2017	20 Mar 2018	12 Jan 2018		17 Nov 2017	
Delivery	26 Jul 2018	29 Aug 2018	26 Jul 2018			The Contract allows for a delivery date of 23rd November 2018 and can be extended for specific events.

Note 1: From Cardinal Programme Rev 01 dated 14 Dec 2015 Note 2: From Cardinal Programme Rev 03 dated 16 May 2016 Note 3: Email from FMEL 09 Dec 2016 Note 4: Awaiting update from FMEL