

Dr. Fridtjof Nansen Replacement – Building progress

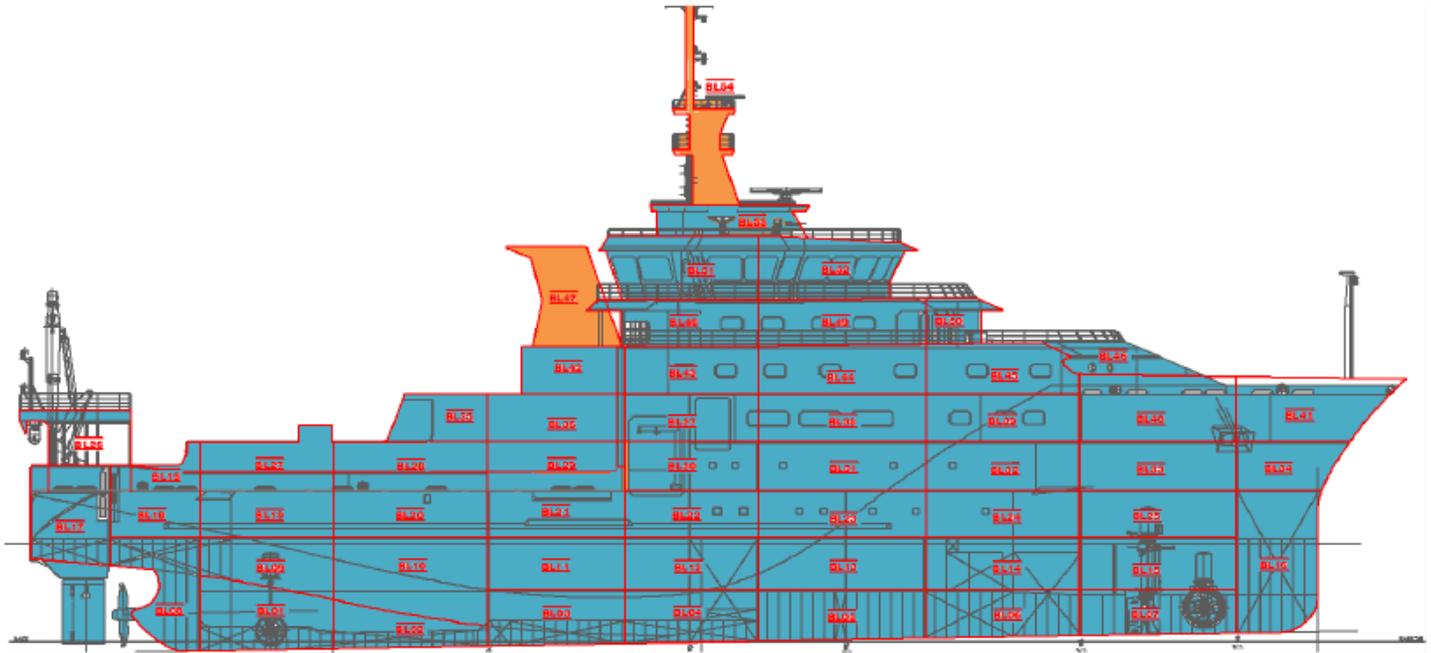
Update by 31st March 2016

First steel cut: 13.01.2015

Keel laying: 23.04.15

Launch of vessel: 23.12.15

-  Blocks ready to be placed on board
-  Blocks assembled



General comments:

- Project meeting week 10. Yard and vessel visit by representatives from IMR, UD, NORAD and FAO.
- Reduced activity during Easter (week 12), work only by subcontractors for accommodation, electro and paint during this period.
- By date up to a manning of approx. 100 workers 10-11 hrs/day. (Electrical workers increased to 45 this week)

Efficient productivity in some areas are now somewhat reduced, mainly due to parallel activities with limited space and access.

- Due to the limited outfitting activity details shown in MP, it is difficult to get good measurement of progress status vs the MP 4 plan, but we do see a trend of an overall fall back and our estimate is that progress is 2-3 weeks behind presented plan by date.

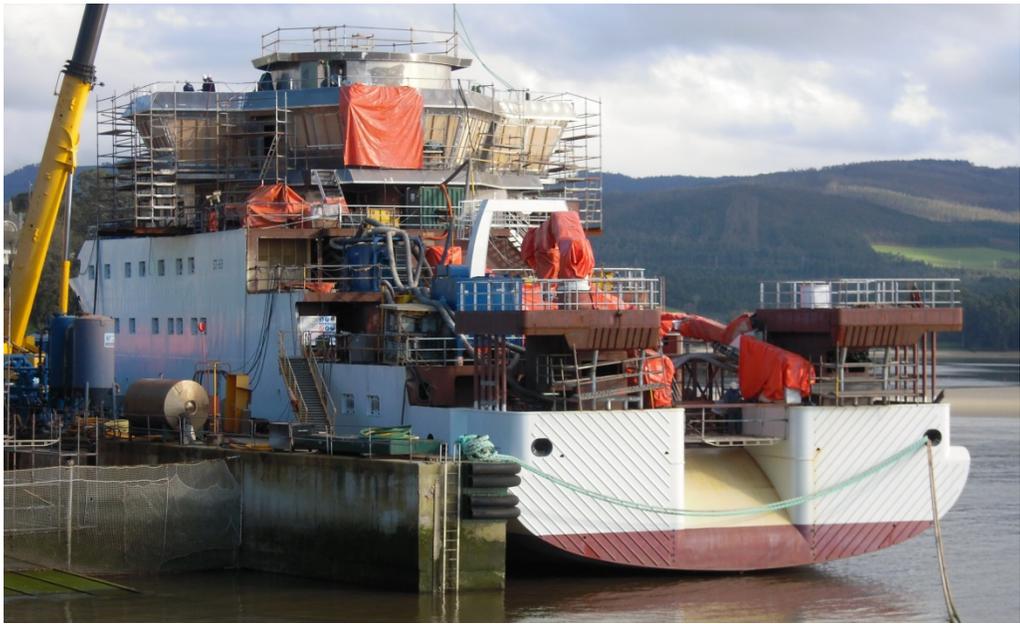
Late startup of cable pulling and a fall back from plan on steel pipe installation is seen as activities that creates start up and progress limitations for other activities such as accommodation paneling etc.

- **Hull Construction:** External outfitting:
 - “Gilson mast” installed
 - All hatches installed – mounting of railings, other deck outfitting in good progress.
 - Stern gate installed, final alignment of net drums in progress.
- **Piping:**
 - Steel piping: Zone 400 (structural tanks etc) almost completed, Zone 500 (Engine & aux rooms) 55% Zone 700 (technical work areas, Labs) 40% Zone 800 (Accommodation) 70%
 - Sanitary piping, water mist piping and HVAC: Accommodation areas on Tween, Main, 1st & 2nd dk almost completed. Upper decks, labs and technical areas just started.
- Some owner remarks on routing due to operational conflicts – good respond for remediation and re-routing.
- **Propulsion and maneuvering:** Alignment of AC motors ongoing.

- **Scientific equipment and Labs:** work with cable trays and sanitary piping started. Started installation of KM cabinets in L 27.
- **Electrical: Cable trays and cabling**
 - Cable trays:
 - Engine areas below tween dk. : 90% completed
 - Accommodation areas on Tween dk, Main dk , 1st and 2nd dk are 90 % completed.
 - Areas outside accommodation (Labs, techn. rooms, stores etc) average 60% completed.
 - Electrical cabling work started March 1st , - 3 weeks behind plan.
 - Main cables for thrusters and AC motors in place and termination started.
 - Power and signal cabling ongoing in accommodation areas on the tween, main and 1st dk.
 - LAN/Cat 7 cabling not started
- **Accommodation:** Floating floor installation and insulation work on: Tween, main, 1st and 2nd dk almost completed. Awaiting cabling progress for startup of wall paneling.
- **Painting:** Good progress on internal areas. Hangar areas sandblasted, metalized and primed during Easter.

Alongside outfitting berth





Aft Deck – “Gilson mast” installed



Bin board arr. on aft deck



Hangar area metalized and primed during Easter



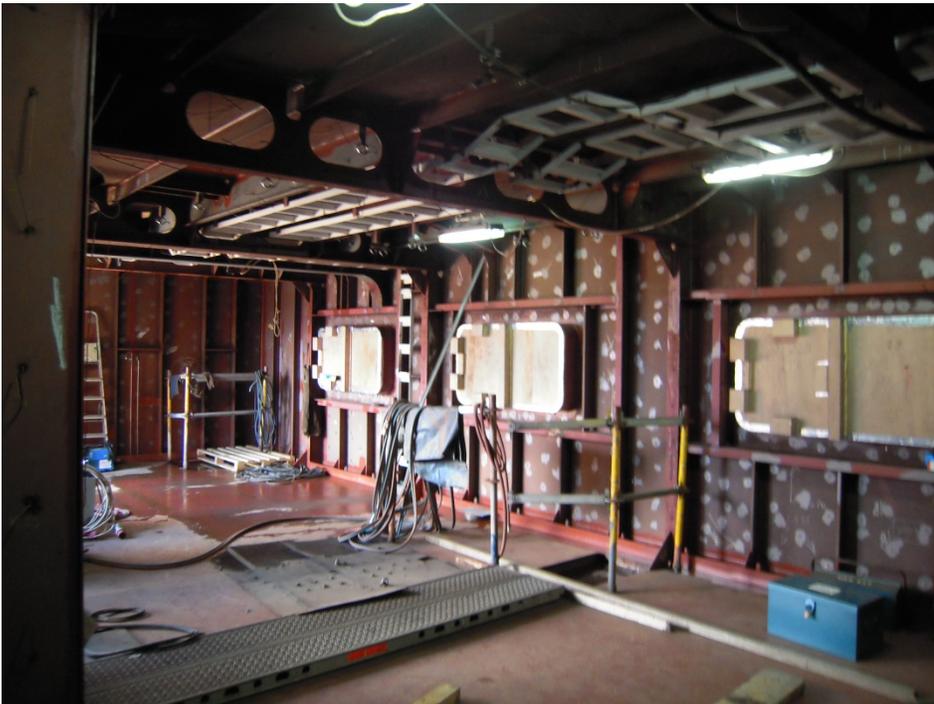
Accommodation 1st dk – PS



Main Dk



Outfitting work (cable trays & piping) in Labs started



Noise insulation: sound dampening compound with steel tiles.



Main cables to Azimuth thruster



Preparation for cable termination in AC motors drives



Ballast system - manifold and piping



AC motor alignment



Work boat launched.



