



**CNR International**



**Ninian Northern jacket removal  
using new Jacket lift system**

**Decom North Sea – 18 May 2022**



Wseas



CNR International



Pieter Schelte  
*Pioneering Spirit*  
Valencia

Pieter Schelte  
*Pioneering Spirit*  
Valencia

Iron Lady  
Valencia

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# Ninian Northern jacket removal using new Jacket Lift System

- 20,000 tonne lifting capacity
- Single lift removal and installation of large jacket structures
- Vertical, inclined and horizontal transport and offloading
- Minimises offshore work, personnel exposure, environmental impact and carbon emissions
- Designed and developed inhouse
- Classified Lloyd's Register CLAME and DNV TRL 4



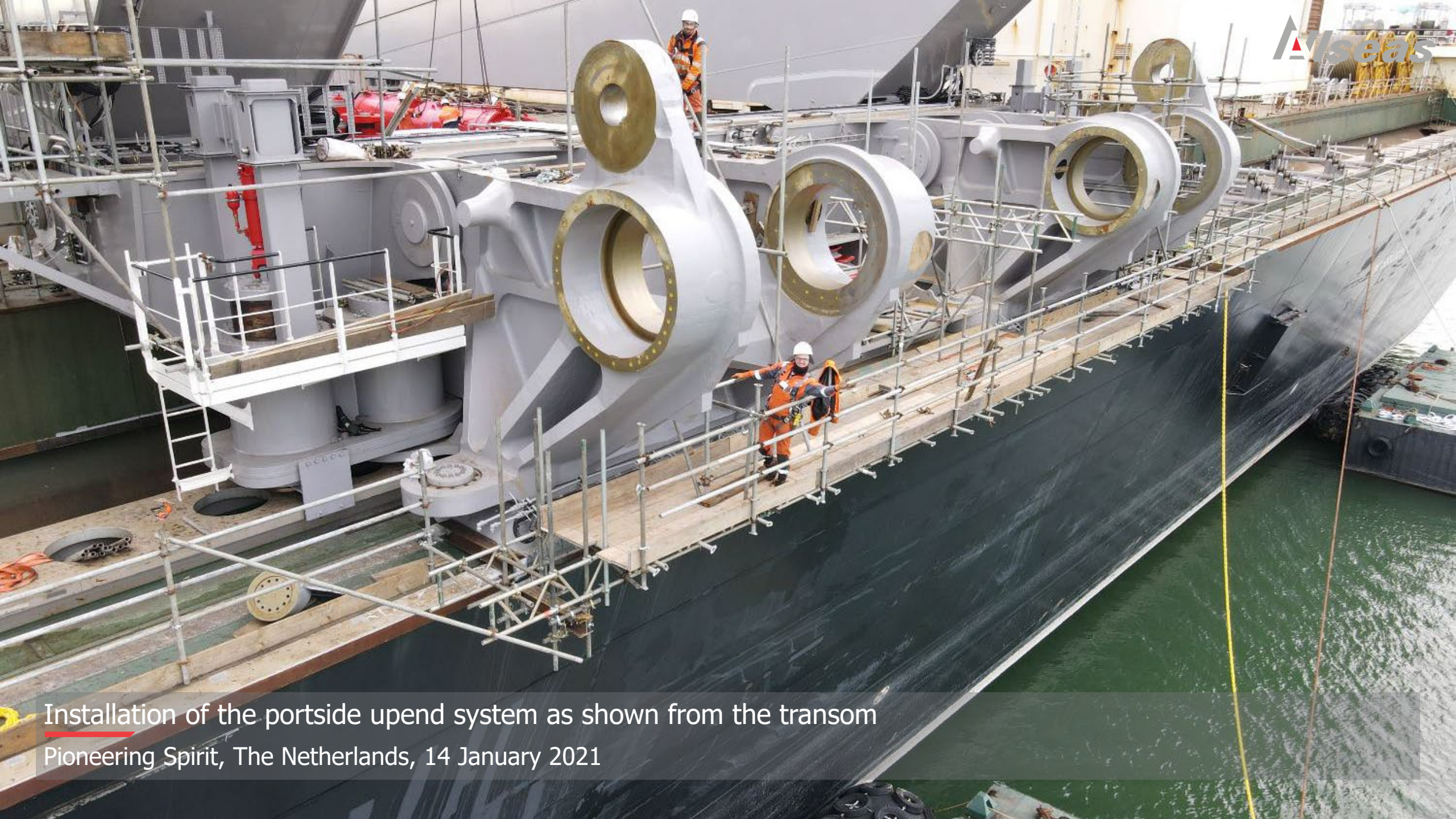


Cut-out in side-shell of winch room 3 for main hoist winches installation

*Pioneering Spirit*, Tenerife, Spain, October 2019



Skidding of derrick hoist winch in winch room  
*Pioneering Spirit*, Tenerife, Spain, October 2019



Installation of the portside upend system as shown from the transom  
Pioneering Spirit, The Netherlands, 14 January 2021



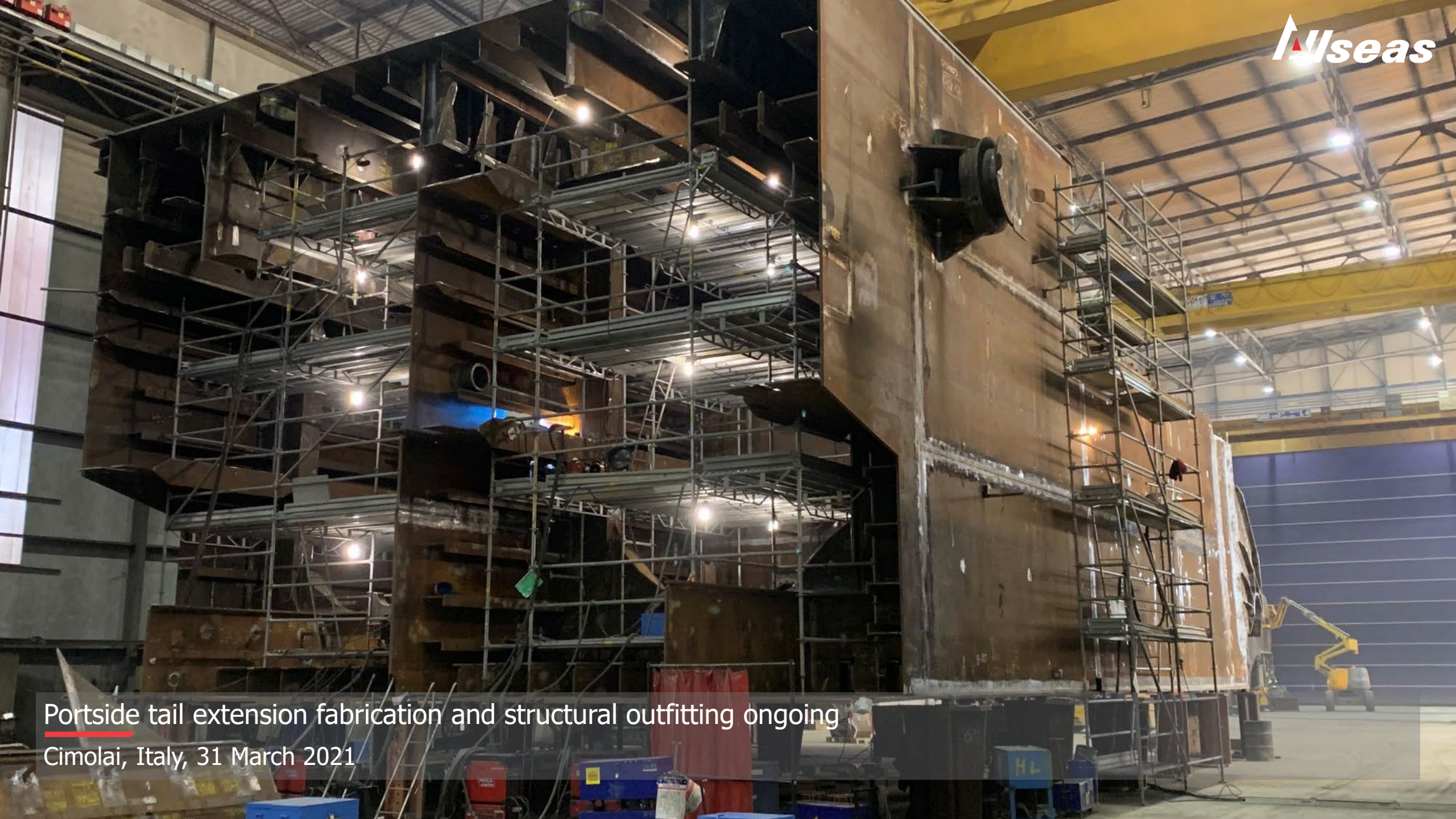
Final machining of the hang-off frame eyes in preparation of JLS beams installation

*Pioneering Spirit*, Norway, 12 August 2021



A large industrial shipyard with a high, white, truss-roofed structure. In the foreground, a large, rusted steel beam is being prepared. It is supported by a complex system of scaffolding and metal brackets. The beam has a series of holes along its length. In the background, other parts of the ship are visible, including a large white hull section. The floor is concrete and cluttered with various tools and materials. A worker in a yellow safety vest is visible in the distance on the right.

Starboard JLS beam from beam top till tail interface, being prepared for joining  
Cimolai, Italy, 31 March 2021



Portside tail extension fabrication and structural outfitting ongoing  
Cimolai, Italy, 31 March 2021



Alignment of 2 mega blocks of the starboard JLS beam  
Cimolai, Italy, 22 April 2021



Transport of the completed starboard JLS beam to *Iron Lady*  
Cimolai, Italy, 10 August 2021



All six main hoist upper blocks completed  
Asturfeito, Spain, 9 March 2021



Reeving of the portside JLS beam centre main hoist blocks  
*Pioneering Spirit, Rotterdam, 7 December 2021*



Cable pulling of JLS beam and upend system cables from the drag chains

*Pioneering Spirit*, Rotterdam, 27 October 2021



Cable pulling and connection inside the JLS beam E-room  
*Pioneering Spirit, Rotterdam, 27 October 2021*



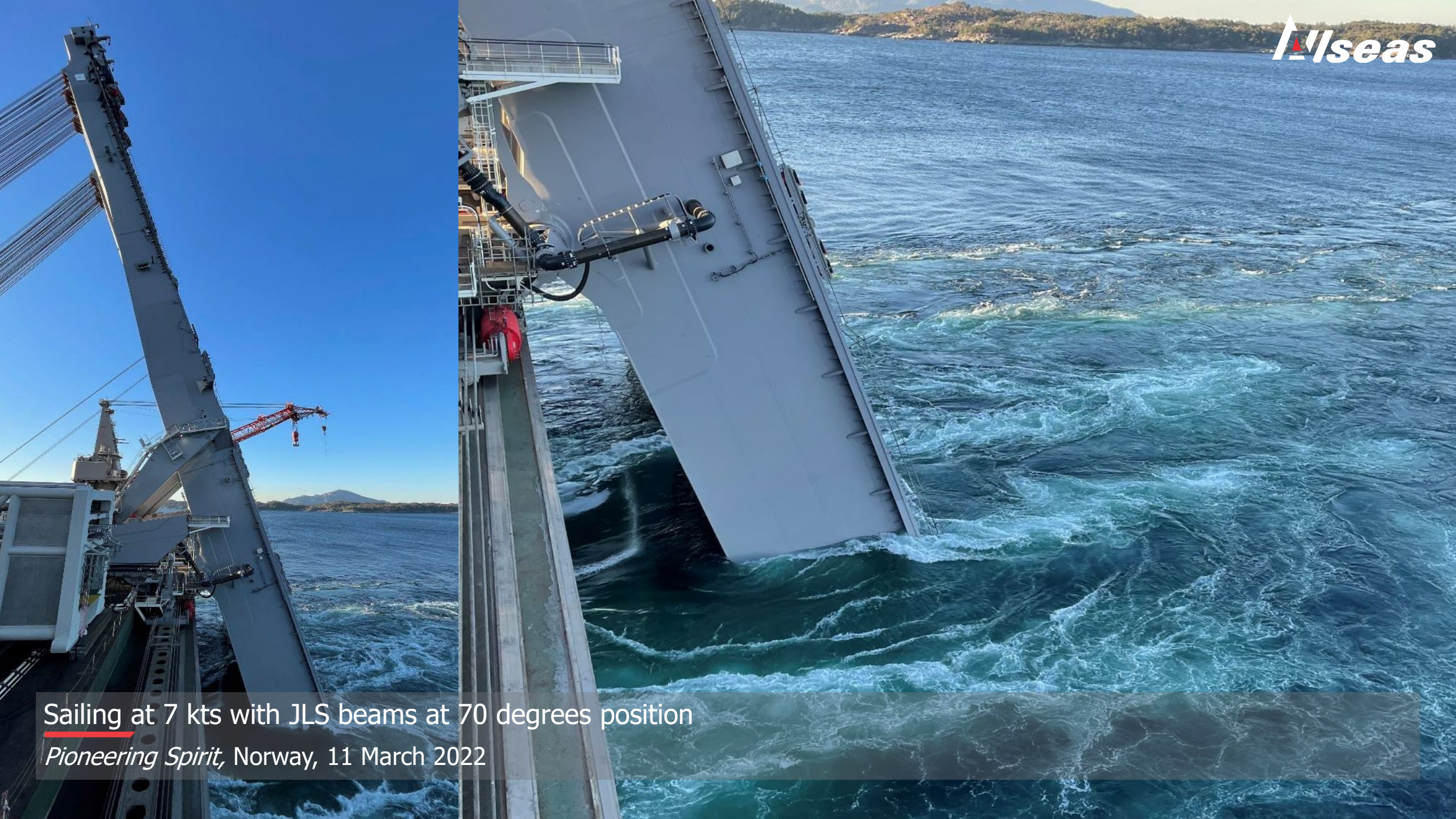


Installation of the portside JLS beam tail extension

*Pioneering Spirit*, Rotterdam, 30 October 2021

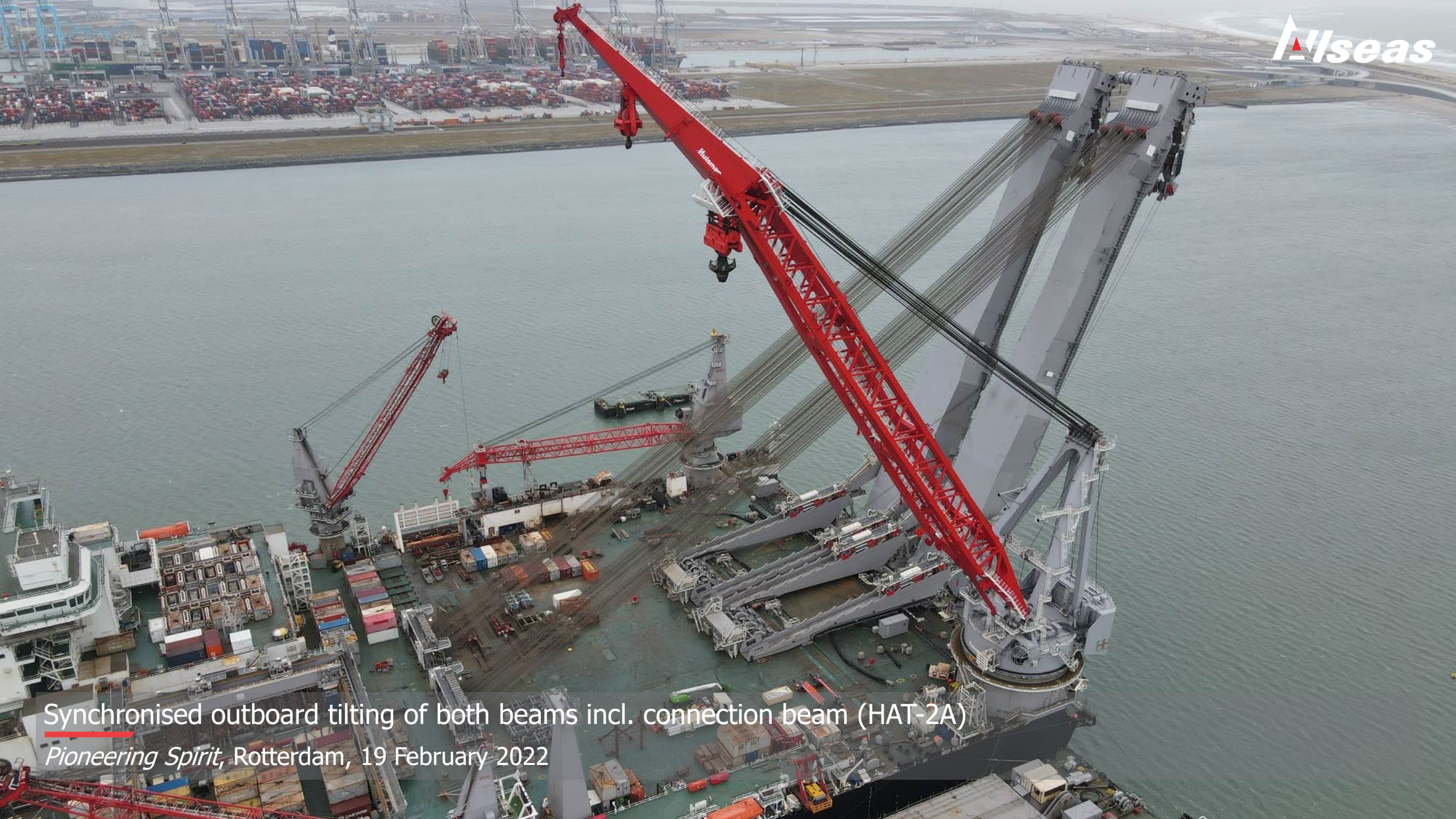


Portside JLS beam tail extension installed  
*Pioneering Spirit*, Rotterdam, 2 November 2021



Sailing at 7 kts with JLS beams at 70 degrees position

*Pioneering Spirit*, Norway, 11 March 2022



Synchronised outboard tilting of both beams incl. connection beam (HAT-2A)

*Pioneering Spirit*, Rotterdam, 19 February 2022



Simultaneous lowering of four main hoist blocks including testing of block connection system  
*Pioneering Spirit*, Norway, 12 March 2022

# Jacket lift system commitments heavy lift season 2022



1  
CNRI | Ninian Northern | 8,100 t

Removal of jacket, horizontal transport and horizontal offloading



2  
Total | Tyra East A | 6,250 t

Removal of jacket, inclined transport and vertical offloading



3  
AkerBP | Valhall DP | 5,000 t

Removal of jacket, horizontal transport and vertical offloading



4  
Repsol | Gyda | 12,000 t

Removal of jacket, inclined transport and vertical offloading



5  
Dragados | Dolwin 6 | 5,250 t

Installation of jacket, vertical loading, vertical transport









Iseas

Pioneer Spirit



Ulseas

Pioneer Spirit

IMO 95936

Pieter Schelte  
Pioneering Spirit  
Valletta









**Sail-by salute to Ninian Central after Ninian Northern jacket lift...**



Pioneering Spirit  
Valletta

Pioneering Spirit  
Valletta

Iron Lady  
Valletta













