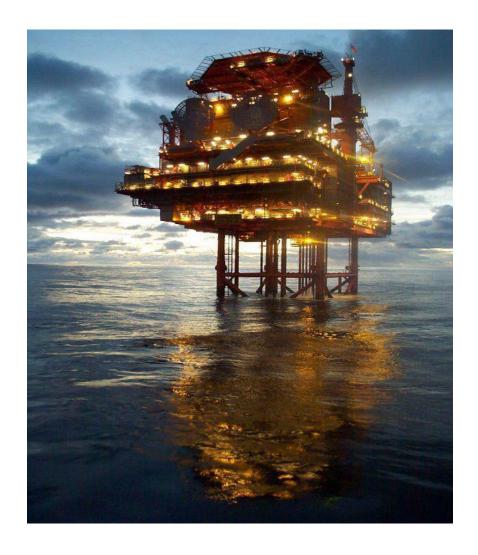
Infrastructure Code of Practice

Lomond



The Lomond platform is a steel jacket platform designed for two parallel processing trains to separate Lomond fluids into component phases: wet gas, condensate and produced water for disposal. A compact processing unit was installed on the platform's main deck for processing Erskine fluids into the same component phases. Wet gas is exported through an in-field pipeline to the Central Area Transmission System (CATS) Riser Tower at the North Everest platform and onwards to the CATS Terminal, Teesside. Condensate is exported in the same way to the CATS Riser Tower and onwards to the Forties Pipeline System (FPS).

Page 2.

| Key Facts | |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Field | Lomond |
| Block | 23/21a |
| Sector | U.K. Central North Sea |
| Approx. distance to land | 145 nautical miles East of Aberdeen |
| Water Depth | 83.8 metres (275 feet) |
| Hydrocarbons Produced | Gas and condensate |
| Export Method | 57.8 km gas and condensate export pipeline from Lomond to CATS riser at North Everest. Thereafter, North Everest export condensate line to the Forties pipeline to Cruden Bay and CATS gas export line to the CATS Terminal at Teesside. |
| Manned / Unmanned | Manned |
| Operated /Non-Operated | Operated |
| % of Harbour Energy Equity | 100.0% |
| First Production | July 1993 |
| Accommodation On Board | 79 |
| Key Commercial Terms | Published Key Terms |

| Infrastructure information | | | | | |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Entry Specification: | Produced fluids must be commercially free of odours, materials, sand and solids/fluids that might interfere or cause injury to the proper operation of the Lomond facilities; which for the avoidance of doubt shall include any material that would affect the merchantable value of Lomond products. | | | | |
| Exit Specification: | To meet the required specifications of Central Area Transmission System (CATS) for export gas and the Forties Pipeline System (FPS) for export condensate. | | | | |
| Outline details of Primary separation processing facilities: | The Lomond platform has a single processing train for Lomond fluids, and the Erskine Processing Module (EPM) train which processes Erskine fluids. Initial stage separation for the Lomond process is through a two-stage vertical separator; initial stage separation for the EPM process is through a three-phase horizontal separator. | | | | |
| Outline details of gas treatment facilities: | For the Lomond process, a single gas train consisting of booster compression followed by TEG dehydration and export compression. A second parallel compression train has been positively isolated. For the EPM process, a single gas train consisting of TEG dehydration followed by export compression (with flash gas compression from the second stage separator). | | | | |

High Level Capacity Information

The basic capacity information is portrayed by colour coded 'traffic lights' that reflect thresholds of availability over the next 5 years.

| >25% capacity available | 5% - 25% capacity available | | | | | < 5% capacity available |
|----------------------------------|-----------------------------------|------|------|------|------|-----------------------------------------------------------------|
| Lomond Platform firm processing | Ullage as % of system capacity | | | | | Comment |
| capacity available | 2023 | 2024 | 2025 | 2026 | 2027 | |
| Oil export capacity | | | | | | 10,000bbl/day (oil processing and export) |
| Gas compression | | | | | | 35 mmscfd (at 8 barg suction); more at higher suction pressures |
| Gas export capacity | | | | | | Governed by compression |
| Gas lift capacity | | | | | | None |
| Produced water handling capacity | | | | | | 5,000 bbl/day |
| Dehydration capacity | | | | | | Governed by compression |
| H2S removal capacity | | | | | | None |
| Water injection capacity | | | | | | None |

| Erskine Production Module (EPM) | Ullag | ge as % | of syst | em cap | acity | Comment |
|------------------------------------|-------|---------|---------|--------|-------|-------------------------------------------------------------------|
| firm processing capacity available | 2023 | 2024 | 2025 | 2026 | 2027 | |
| Oil export capacity | | | | | | 16,000bbl/day (oil processing and export) |
| Gas compression | | | | | | 110 mmscfd (at 40 barg suction); more at higher suction pressures |
| Gas export capacity | | | | | | Governed by compression |
| Gas lift capacity | | | | | | None |
| Produced water handling capacity | | | | | | 7,500 bbl/day at current pressures |
| Dehydration capacity | | | | | | Governed by compression |
| H2S removal capacity | | | | | | None |
| Water injection capacity | | | | | | None |

Disclaimer:

While this information has been prepared in good faith, no warranty or representation (implied or express) is made as to its accuracy, completeness or relevance for use by any other party and no liability is accepted by Harbour Energy under any circumstances relating to the information and the use thereof.

Last update: December 2022

Contact Information

LAURA TAYLOR

LAURA.TAYLOR@HARBOURENERGY.COM