

Infrastructure Code of Practice

Britannia



Britannia is one of the largest natural gas and condensate fields in the North Sea processing oil, condensate and gas from the Britannia, Brodgar, Callanish, Enochdhu, Alder and Finlaggan fields.



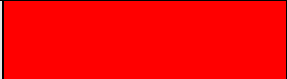








































Condensate is delivered through the Forties Pipeline to the oil stabilisation and processing plant, Kerse of Kinneil, near the Grangemouth Refinery in Scotland, and natural gas is transported through a dedicated Britannia pipeline to the Scottish Area Gas Evacuation (SAGE) facility at St. Fergus, Scotland.

To enable production over Britannia, tie-ins could occur at either the Britannia platform, the bridge-linked platform (BLP), or any one of the subsea manifolds: Brodgar, Callanish, Enochdhu, Alder (Alder is operated by Ithaca) or Finlaggan (Finlaggan is operated by NEO Energy).

There are also three spare risers on the BLP.

| KEY FACTS | |
|--------------------------|---|
| Field | Britannia |
| Block | 16/26 |
| Sector | U.K. Central North Sea |
| Approx. distance to land | 210 kilometres/130 miles North East of Aberdeen |
| Water Depth | 136 metres (446 feet) |
| Hydrocarbons Produced | Oil, gas and condensate |
| Export Method | Gas – by a 28-inch, 116-mile pipeline, to the SAGE terminal at St Fergus. Oil and Condensate – by a 14-inch, 28-mile pipeline to the Forties Pipeline System via the Unity Platform and onwards to Cruden Bay. |
| Manned / Unmanned | Manned |
| Operated /Non-Operated | Operated |
| % of Chrysaor Equity | 58.65% |
| First Production | 3 August 1998 |
| Accommodation On Board | 184 |
| Key Commercial Terms | Published Key Terms - Alder |

| Infrastructure Information | |
|--|---|
| Entry Specification: | Dependent on the point at which any potential third-party would enter the Britannia facilities and the composition of production already being processed at that time (also includes areas that cover onward transportation). |
| Exit Specification: | Liquids are exported via the Forties Pipeline System (FPS) (directly negotiable between prospective third-party and FPS). Any exit specification must be achievable with the processing facilities available on the Britannia facilities. Gas is exported through the Britannia pipeline for further processing within the SAGE Gas Terminal at St. Fergus. Exit specification is the National Transmission System specification at that point. |
| Outline details of primary separation processing facilities: | Primary separation consists of: Britannia Platform – HP Separator (3-phase)*, Platform Well Test Separator (3-phase)*, Finlaggan Separator (3-phase), MP Separator (3-phase), Bridge-Linked Platform (BLP) – Brodgar HP Separator (2-phase), Callanish Separator (3-phase), Brodgar IP Separator (3-phase), Alder Separator (3-phase). *Water is separated, metered and recombined. |
| Outline details of gas treatment facilities: | Booster compressor is available upstream of the gas treatment and compression trains and allows the Britannia HP Separator to be operated at a lower pressure. There are two parallel gas treatment and compression trains each reducing hydrocarbon dewpoint and water content before compressing the gas for export. |

| 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 |  | |
| Britannia Platform firm processing capacity available | Ullage as % of system capacity | | | | | Comment |
| | 2023 | 2024 | 2025 | 2026 | 2027 | |
| Oil export capacity |  |  |  |  |  | 3 Condensate Export Pumps available |
| Gas compression capacity |  |  |  |  |  | Based on dual train operation |
| Booster compressor capacity |  |  |  |  |  | Increased suction pressure would increase capacity |
| Gas export capacity |  |  |  |  |  | Based on dual train operation |
| Gas lift capacity |  |  |  |  |  | Capacity dependent on gas export pressure |
| Produced water handling capacity |  |  |  |  |  | |
| Dehydration capacity |  |  |  |  |  | Based on dual train operation |
| H2S removal capacity | N/A | N/A | N/A | N/A | N/A | None |
| Water injection capacity | N/A | N/A | N/A | N/A | N/A | Topsides modifications would be required to provide water injection |
| POB capacity |  |  |  |  |  | |

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Disclaimer:

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- without warranty, implied or expressed to its accuracy

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