

Bull Arm Fabrication Site

Strategic Marine Industrial Site

Newfoundland and Labrador, Canada



About the BAF Site

The Bull Arm Fabrication (BAF) Site is Atlantic Canada's largest marine industrial facility. It boasts deepwater access, secure infrastructure, and over 6,300 acres of industrial-scale capacity. The BAF Site is operated by the Oil and Gas Corporation of Newfoundland and Labrador (OilCo), on behalf of the Government of Newfoundland and Labrador.

Strategically located in Canada's easternmost province, the BAF Site is about an hour from Newfoundland and Labrador's capital city, St. John's, and is closer to the Arctic and Europe than any comparable North American facility.

The BAF Site encompasses more than 23,000m² of covered workspace across three core areas: the Fabrication Yard, the Marine Facility, and the Deepwater Site; all supported by robust infrastructure. The site is fully equipped to support a range of functions, including repair, maintenance, and refit, as well as vessel retrofits and shipbuilding, in-service support and layup, Arctic and Atlantic missions, secure logistics, and decommissioning. It is also an International Ship and Port Facility Security (ISPS) certified international port.

Site Layout



Site Specifications

The BAF Site is located on the west side of Trinity Bay, Newfoundland and Labrador. Water depth varies from 10m to 35m in the inner cove to an average depth of 160m in the outer near-shore area. Some of the key features of the Site include:

- Unobstructed, deepwater access to the Atlantic Ocean
- Over 23,000m² of enclosed fabrication facilities
- Over 500m of deepwater berthing
- 40,000m² drydock
- 10km of fully paved internal roadway
- Independent communications system and sanitary sewage system
- On-site water system which delivers potable, firefighting, and industrial water

The site features integrated infrastructure for simultaneous fabrication, construction, maintenance, inspection, commissioning, decommissioning, and marine servicing; and can accommodate multiple users and projects simultaneously, offering unobstructed ocean access.

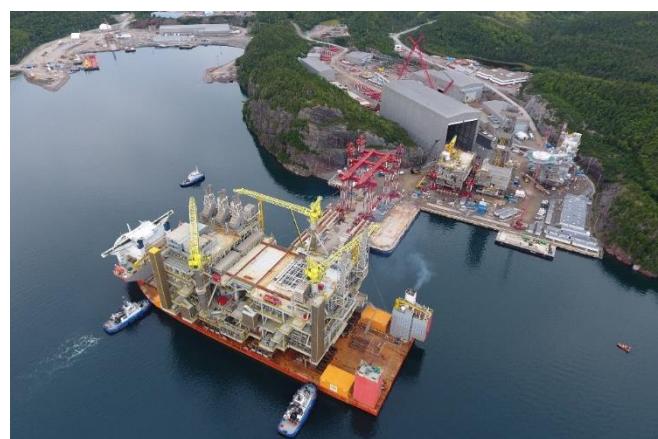
Extensive fabrication and storage facilities, located near deepwater piers, enable execution of large-scale industrial and marine projects from inception to global deployment.

Core Facilities

1. Fabrication Yard

A 120,000m² area with 20,600m² of enclosed fabrication, support facilities, and marine infrastructure, including:

- 5,300m² module hall with 2 x 75-tonne cranes, and a 39m x 39m mega door
- Receiving quay - 165m long, 10m draft
- Assembly pier - 140m long, 10-14m draft
- 1,275m² pipe shop
- 4,500m² cutting shop and assembly hall
- 2,600m² blast and paint shop



Module hall

- Overall dimensions 120m x 42.2m x 51m (5,300m² building area)
- Two 75-tonne overhead bridge cranes with an auxiliary 10-tonne hoist each (40m under hook)
- 39m x 39m fabric mega door
- 19m x 15m vertical lift door
- Four welding fume extraction units
- 16 utility stations composed of propane, cold water, breathing air, compressed air, argon-mix, acetylene, and oxygen



Cutting shop

- Overall dimensions 40m x 40m x 16m (1,600m² building area)
- Three 10m x 6m horizontal sliding doors
- Two 20-tonne overhead cranes (6m under hook)
- Outside crane gantry rail system allows crane access to the storage yard
- Four utility stations composed of compressed air, acetylene, and oxygen
- L-TEC CM 300 numerical gas cutting machine
- L-TEC CM 250 optical cutting machine

Assembly hall (connected to the cutting shop)

- Overall dimensions 70m x 42m x 25m (2,940m² building area)
- 15m x 10m vertical lift multi-blade door; 19m x 13m bi-parting sliding door
- 40m craneway door (15m under hook)
- Two welding fume extraction units
- 19 utility stations composed of acetylene, oxygen, argon-mix, compressed air, breathing air, and welding exhaust connection
- Two 40-tonne overhead bridge cranes
- Small office area

Pipe fabrication shop

- Overall dimensions 41.1m x 31m x 13m (1,275m² building area)
- Two self-contained, isolated bays: one for stainless steel (20m x 31m), one for carbon steel (20m x 31m)
- 20m craneway door in each bay
- Four 9.8m x 6.1m bi-parting sliding doors
- Two 10-tonne overhead cranes
- Eight 2-tonne jib cranes
- Five-axis pipe cutting machine
- Plasma and band saw cutting equipment
- 11 utility stations composed of propane, breathing air, argon, cold water, oxygen, acetylene, and compressed air
- Fume extraction unit

General shops and engineering (attached to the module hall)

- Overall dimensions 120m x 25m x 15m (3,170m² for both floors)
- Upper floor: office and cubicle space for approximately 85 people and a lunch room for over 400 people
- Lower floor: general shops are divided into seven shops - HVAC, QA/QC, instrumentation/calibration, electrical, insulation, tool, and mechanical and test shop
- Eight 8m x 4m rolling steel doors

Blast and paint shop

- Overall dimensions 47.2m x 65m x 19m (2,600m² building area)
- Two explosion-proof, isolated blast shops and one paint shop
- Flexibility to paint in blast and/or paint halls
- Three 6m x 5m rolling steel doors
- Three 19m x 13m multi-blade vertical lift doors
- Breathing air system
- Compressed air system
- Wheelabrator grit recovery system
- Dust collection system

Heated warehouse

- Overall dimensions 66m x 47.2m x 11.9m (3,115m² building area)
- 10-tonne overhead bridge crane
- Five 3.75m x 2.4m roll-up steel doors
- 6m x 6m roll-up steel door
- Pallet racking

Maintenance building

- Overall dimensions 20.8m x 28.9m x 11.1m (600m² building area)
- Three 5.4m x 6.0m roll-up steel doors
- 10-tonne hydraulic vehicle hoist
- 11 compressed air stations

Main substation

- Three transformers (2MVA, 3MVA, 4MVA) reduce 25kV to 4.16kV for the Fabrication Yard buildings through three underground radial distribution feeders

Security building

- Security gates providing access control to the Fabrication Yard

Assembly areas (two)

- Erection and final storage area next to the receiving quay (15,000m²)
- Mid-yard laydown area located in front of the heated warehouse is 4,000m²

Assembly pier

- Concrete caisson, beam construction
- 140m x 47m
- Water depth from 10m to 14m

Receiving quay

- Two sections - 165m and 25m in length
- Water depth 10m at both quays

Barge landing ramp (adjacent to 165m section of receiving quay)

- 88.8m x 4m x 1.6m reinforced concrete pad and 19 bedrock embedded pipe piles, placed 9m from the face of the receiving quay
- Bearing capacity of 25 tonnes per m²

2. Marine Facility

A 140,000m² area with quays, buildings, and laydown areas, including:

- Fabrication building (8,600m², nine overhead cranes)
- Three multi-purpose industrial buildings
- Five quays, including 172m south quay (10m draft)
- Former drydock (40,000m², requires earthen berm)





Fabrication building

- Overall dimensions of two bays are 77m x 78m x 10m and 72m x 36m x 13m (8,600m² total building area)
- Nine overhead cranes consisting of two 20-tonne, one 10-tonne, and six 5-tonne cranes
- Seven doors consisting of five 4m x 4.5m, and two 9m x 10m doors

South quay

- 172m quay
- Water depth minimum 10m at low tide
- Elevation of 3.3m and tidal action 1.4m
- Seven mooring points, including one 300-tonne and one 400-tonne capacity
- Adjacent lay down area of 4,800m²

Carpentry/warehouse building

- Overall dimensions of 36m x 61m (2,196m² building area)
- Three overhead doors 4.3m x 4.3m

Multi-purpose building

- Overall dimensions of 39m x 18m shop floor (700m² building area)

Unheated warehouse

- Overall dimensions of 62m x 12m (740m² building area)

Sewage treatment plant

- Dual mode – aerated lagoon mode for small populations (<500 people) and sequential batch reactor mode for larger populations (>500 people)

Drydock area

- Former drydock: 40,000m², oval shaped (200m in length) with the majority excavated to 16.5m and a portion to 10m
- Four quays located in drydock

3. Deepwater Site

The Deepwater site is ideal for concrete platform construction, platform mating, and commissioning activities. The area offers a water depth of 150m+ with major infrastructure, including:

- Ferry terminal
- Two laydown areas
- Power supply, telecommunications, and water connections
- Offers quiet waters for testing and direct access to international shipping lanes



4. Support Areas and Ancillary Facilities

Self-contained facility with common site infrastructure, including:

- Communications infrastructure
- Paved roadway
- Fully-serviced brownfield space
- Additional large laydown/staging areas

Common area

A fully serviced brownfield space, capable of supporting a 3,500+ person camp or other industrial/commercial grade infrastructure.

Paved access roadway and parking facilities

The site features 10km of paved internal access roads, providing direct connectivity to the Trans-Canada Highway. There is also parking for more than 1,500 vehicles on site.

Other common infrastructure

The site also offers additional support infrastructure, including:

- Domestic (non-potable), industrial, and firewater systems
- Fire hall and medical centre
- Site security building
- Sanitary sewer system with sewage treatment plant
- Independent radio communication system
- Additional large laydown/staging areas

About OilCo

OilCo supports Newfoundland and Labrador's offshore oil and gas industry by promoting safe and environmentally responsible exploration and development activities. We manage the Government of Newfoundland and Labrador's equity interests in participating oil and gas assets and operate the Bull Arm Fabrication Site.

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