

# BP Glen Lyon FPSO Turret

**Project:** BP Glen Lyon FPSO - Turret

**Ultimate Client:** BP Exploration Operating Company Ltd.

**Client:** SBM Offshore

**Location:** Schiehallion and Loyal Field, 175km offshore west of Shetland region, UK

**Project Type:** Offshore

**Scope:** Fabrication of 5 internal Turret units with the heaviest weighing near to 3,000 tons. Delivered in 2013.

## Highlights:

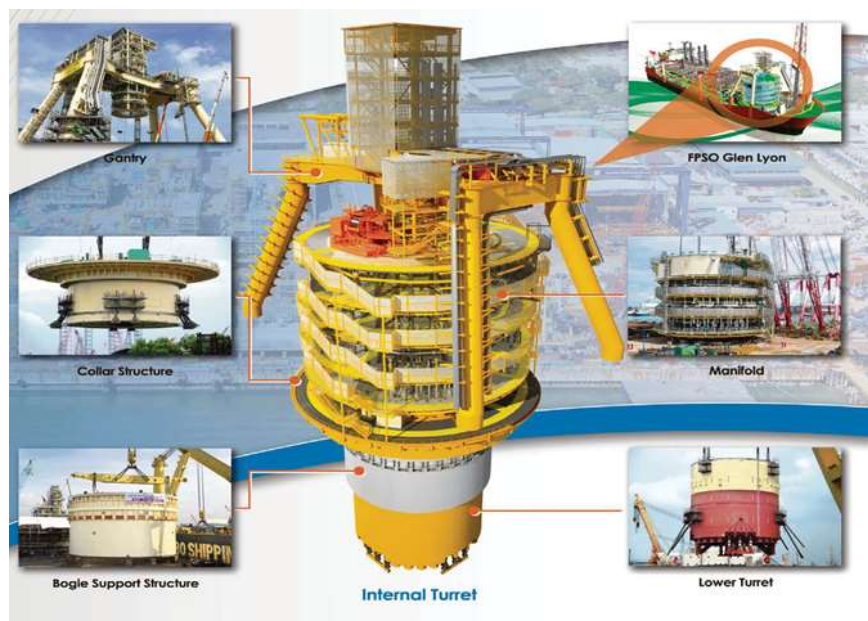
- Total structural weight of more than 10,000 tons – **the largest ever built turret in the world, standing at 94m tall.**
- The most complex turret manifold ever designed and constructed in the world.
- Constructed to withstand against the most challenging and extreme environmental conditions.

## Details:

- Harsh water new-build FPSO (270m long x 52m wide) deployed at water depth of 400 metres.
- Glen Lyon FPSO replaces the Schiehallion FPSO and extends production at Quad 204 to 2035 or beyond.
- Production capacity for 320,000 b/d of liquids and 220 MMSCFD of gas and 380,000 b/d of produced water and seawater injection. Storage capacity of 1 million barrels of crude product. Export of crude will be via shuttle tanker.
- Gas handling comprises liquid knock-out, drying and compression prior to use as gas lift gas or export through the existing West of Shetlands pipeline.

## Achievements / Awards:

- At the point of time of delivery, it is the most complex and largest turret ever built in the world.
- Precision construction achieved through DM's stringent dimensional control process, allowing accurate dimensional integration to the mother vessel.



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- 12,000 dia-inch of exotic material duplex welding with near to zero defects
- Achieved zero Lost Time Incident (LTI)

