

# THE OFFSHORE OIL AND GAS EXPLORATION, PRODUCTION, UNLOADING AND STORAGE (ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2020

## Project Summary pursuant to Regulation 11(2)

**Developer:** BP Exploration Operating Company Limited (“**BPEOC**”), as operator on behalf of itself, Equinor New Energy Limited and TotalEnergies CCS UK Limited

**Project:** Northern Endurance Partnership (“**NEP**”) Development (referred to as the “**Development**”)

**Environmental Statement** dated September 2023

**Reference Number:** D/4271/2021

18<sup>th</sup> September 2023

The essential nature of the Development is the drilling of the NEP wells, the installation and commissioning of the required subsea infrastructure and the operation and maintenance of the wells and infrastructure for the injection and storage of carbon dioxide (CO<sub>2</sub>) at the Endurance Store (Carbon Dioxide Appraisal and Storage Licence CS001), a geological storage site under the Southern North Sea (“**SNS**”).

### Proposed location

- The Development covers UKCS Blocks 41/11, 41/12, 41/13, 41/14, 41/19, 41/20, 42/16, 42/17, 42/18, 42/23, 42/24, 42/25, 42/28, 42/27, 47/2, 47/7, 47/6 located in the SNS.
- The water depth across the Development area is highly variable but the maximum depth at the Endurance Store is 63.8 m below Lowest Astronomical Tide.
- The Endurance Store is located approximately 63 km east of the North Yorkshire (England) coast and approximately 105 km from the Dutch median line.

### Proposed activities

BPEOC proposes to develop the Endurance Store for the injection and storage of CO<sub>2</sub>. This is a new project under Schedule 1 of the Regulations, that will involve the capture of CO<sub>2</sub> from onshore industrial clusters at Teesside and Humber. CO<sub>2</sub> will be transported offshore to the Endurance Store via two 28” pipelines, one originating at Teesside (c. 142 km in length from Mean Low Water Spring (“**MLWS**”)), and the other at Humber (c. 100 km in length from MLWS). An electric power and fibre-optic communications control cable will run from Teesside to the subsea infrastructure at the Endurance Store. At the Endurance Store, all installed infrastructure will be subsea. The subsea facilities will consist of two manifolds which combine, distribute, control, and monitor flow of CO<sub>2</sub> to five injection wells. One monitoring well will be used to monitor CO<sub>2</sub> within the Endurance Store. Infield flowlines will connect the five injection wells to the manifolds and power and communication cables will connect all six wells to the manifolds.

The proposed Development can be summarised as follows:

- Installation, connection to subsea infrastructure and commissioning of two CO<sub>2</sub> export pipelines from Teesside and Humber industrial clusters (MLWS) to the Endurance Store;
- Installation of subsea infrastructure at the Endurance Store including two manifolds, infield flowlines and an infield pipeline;
  - One crossover co-mingling manifold to combine the flows from the Teesside and Humber Pipelines and distribute for injection into two wells and to the manifold;
  - The other manifold is connected to the other three injection wells;
  - The manifolds connect to the five injection wells via 8” flowlines, up to 3 km in length;
  - The two manifolds will be connected by an infield pipeline, up to 28” in diameter and c. 6 km in length;
- Drilling of five CO<sub>2</sub> injection wells, one monitoring well and installation of six subsea trees;

- Operations and maintenance (“O&M”) of subsea infrastructure and pipelines;
- Monitoring and management of the Endurance Store during and after CO<sub>2</sub> injection in accordance with relevant regulatory consents; and
- Installation, commissioning and O&M of cables;
  - One electric power and fibre-optic communications control cable running from Teesside to the subsea infrastructure at the Endurance Store; and
  - One electric power and fibre-optic communications control cable between the two manifolds and six cables from the manifolds to each of the wells.

The Development design base case does not currently include a subsea safety isolation valve nearshore Teesside or an associated power, control and hydraulics umbilical. This infrastructure has been assessed in the Environmental Statement should a change in approach be required.

#### Proposed timeline

The planned schedule of activities is as follows:

- Landfall construction: Q3 – Q4 2025
- Offshore installation: Q1 – Q3 2026
- Drilling: Q1 – Q4 2026
- Commissioning: Q2 & Q3 2027
- First injection: Q4 2027