



**Correll**  
GROUP

**High Voltage  
Management**

**CASE STUDY**

# GE Grid - Saint Nazaire, Fecamp, Courseulles-sur-Mer Offshore Wind Farm's

## PROJECT OVERVIEW

SPIE Industries carried out the Oil Sampling on the main transformers at 33kV/225kV 280MVA on Saint Nazaire, Fecamp and Courseulles OWF's for GE Grid.

Oil treatment was subcontracted to a partner, however the SPIE team was heavily involved in the complete operation to assisted their partner.

SPIE also conducted Oil Sampling on the Hitachi Transformers ABB - 0.2MVA – 33/0.84/0.4kV, which were stored as spare parts for the HAL-150 E-stack.

## SCOPE OF WORKS

- Preparation for activities
- RAMS (special care for leakage and waste management)
- Digital reports preparation for inspection with tablets or phones : aim is to be more efficient and produce instantaneous reports,
- Waterproof check
- Global visual inspection ( painting, cleanliness)
- Protection TR Check : Buchholz, oil level
- Control & check of valve positioning
- Dryer Check the and silica gel replacement
- Electrical test:
  - Insulation resistance under 5kVdc:
  - PH Primary/earth
  - Primary PH/ Secondary PH
  - Primary PH / Tertiary PH
  - Secondary PH/earth
  - Tertiary/earth pH
  - Primary/Secondary transformation ratio on the 5 positions of the CPHT

- Oil sampling and analysis in the laboratory:
  - Dielectric strength
  - Water content
  - DGA
- Oil refuelling with new oil type MIDEL 7131:
  - Ground circuit check
  - Overall cleaning
  - Applying a revision tag
- Withdrawal from the construction site:
  - Site cleaning
  - Reception breakpoint in the presence of the customer
  - Site closure
  - Return of Work Orders
- Submission of final reports within 3 weeks:
  - Photo folder
  - Intervention report



**Client:** GE GRID

**Location:** France

**Year:** December 2023 to January 2024

[www.correllservices.com](http://www.correllservices.com)

## FURTHER INFORMATION

[www.correllservices.com/projects](http://www.correllservices.com/projects) or contact: [enquiries@correllservices.com](mailto:enquiries@correllservices.com)