

BULK CHEMICAL STORAGE AND TANK WASHING

OEG Offshore's purpose-built facility located at Cairnrobin Business Park, Aberdeen offers market-leading chemical transloading, chemical storage services and the most advanced tank wash operation in Scotland. Our chemical tank farm includes high-volume bulk chemical storage with associated tank filling station, control room and laboratory. Maintaining and cleaning your tanks at OEG Offshore assures a one-stop service that's fast, easy, and second to none.



TANK FARM STORAGE CAPACITY

- › 20 large, vertical stainless steel bulk chemical tanks
- › High-volume bulk chemical storage capability – 775mT
- › Specific tanks insulated with electrical trace heating for storage of chemicals which require temperature control

TANK FILLING

- › Tank Filling Station accommodating the transfer of bulk chemical into offshore tanks (OST), intermediate bulk containers (IBC) or drums.
- › Weigh station

LABORATORY CONTROL ROOM

- › On-site laboratory & control room, facilitating all quality control requirements
- › HSEQ Assurance - samples of all chemical products tested to client-defined specifications (inbound and outbound)

TANK FARM CONTROL SYSTEM

- › Fully automated SCADA system controlling all tank farm processes including filling, recirculating and transferring
- › Liquid level monitoring - level sensors on each tank to monitor liquid levels

TANK CLEANING

- › High pressure cleaning equipment and tank washing facilities
- › 360° internal coverage for safe and efficient cleaning

STORAGE CAPACITY

- High-volume bulk chemical storage capability – 775mT
- Chemical Storage is achieved using 20 bulk chemical tanks
- Tanks are fabricated from stainless steel 316 and each is able to feed to a weigh station
- 7 of the 20 tanks (6 x 33.5 m³ & 1 x 45.5 m³) are insulated with electrical trace heating to give flexibility in relation to handling chemicals that require temperature control

The Sodium Hypochlorite 14-16% containment envelope (tank, pipework, pump etc.) is fabricated from a high chemical resistant UPVC sheet, chlorobutyl rubber-lined steel or GRP except where appropriate such as flexible hoses and EPDM rubber flange joints.

Tank Configurations:

- 7 tanks @ 45.5 m³ volume and capable of holding material up to 1.3 SG
- 3 tanks @ 45.5 m³ volume and capable of holding material up to 1.4 SG
- 10 tanks @ 33.5 m³ volume and capable of holding material up to 1.3 SG

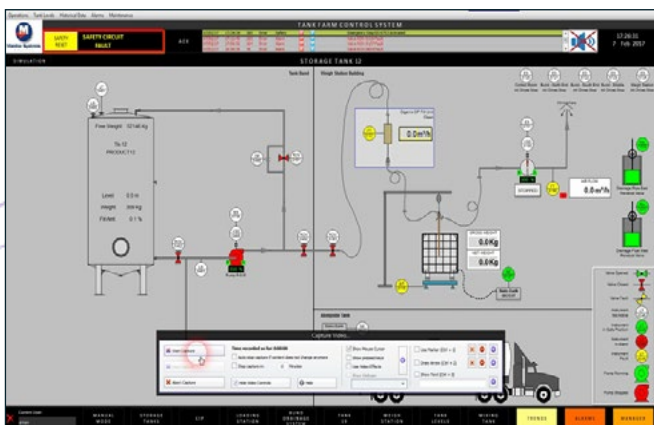
CONTROL SYSTEM

The Tank Farm Control System automates the various tank farm processes; filling, recirculating and transferring processes are controlled by automated operations. Level sensors on each tank measure and monitor the liquid level. Hi Hi and Lo level switches are used to control tank pumps to prevent overflowing or dry running.

Product transfer quantities will be derived from either two weigh scale platforms in the weigh station, tank load cells under the mixing tank, flow sensors or Tank Level Transmitters in each storage tank.

System data is stored on two rack mounted industrial SCADA IPC's running WinCC SCADA package. Both IPC's are utilised as operator stations which provide process visualisation and operator interface.

The Control System Interface utilises two HMI Stations, located in the Control Room, from the HMI Stations the operator is able to activate all processes as well as view all tank levels and system generated alarms. Most processes are fully automated through actuated control valves.



Control system interface



Cairnrobin tank farm control room and laboratory

QUALITY CONTROL

Quality control checks are carried out by taking (min 200ml) samples from all products to ensure they meet the requirements of any client defined specifications, prior to being discharged to stock, or shipped to customers. Packages containing chemicals (IBCs, Drums, etc.), if sealed on receipt, do not need to be tested, but can be accepted based on the Certificate of Approval (CoA) provided.

The 'Control Building' is equipped with a small laboratory (next to the tank farm) to facilitate the Quality Control requirements.

