

TEMPORARY REFUGE TESTING

Workscope

Stork's HVACR team were contracted to deliver temporary refuge (TR) testing on the BG Everest & Lomond platforms. A number of TR boundary doors and fire dampers were causing excessive leakage rates and in order to identify which areas were causing the major leakages, assisted testing was carried out to accurately assess the impact of repairs would have to the leakage rates.

Solution

Stork delivered a detailed inspection of each TR boundary door and fire damper to fully assess the need for repair or replacement. Various door repairs and replacements were identified and remedial work carried out, including door seals and closing mechanisms.

In conjunction with the door replacement and repairs, Stork also delivered additional annual maintenance routines on a number of dampers and recommendations to function test on a weekly basis were made. This was to ensure dampers were operating effectively to avoid part closure in the future.

Periodic Re-testing was carried out to monitor improvements so that the client could demonstrate this to the HSE Inspecting Authority.

Results & benefits

A TR Integrity test was carried out on completion of the scopes witnessed by BG and successful leakage rates were achieved.

Through detailed inspection and effective repairs a number of benefits were seen by the client including:

- Retention of TR Module pressurisation
- Reduced TR module leakage
- Improved HVAC Balancing within the TR Module
- Improved fire damper operating performance
- Improved condition of module boundary doors
- Reduced risk exposure to personnel
- Leakage performance improvements required by HSE

Project information

When:
Throughout 2012

Who: BG Group,
Everest & Lomond
platforms

Where: UK North Sea

TR Testing:

- Initial as found condition test & inspection
- Doors Inspection & Maintenance
- Fire Damper performance checks
- Periodic retest & witness by Inspecting Authority

Safe
ty: No Lost Time Incidents
recorded or minor injuries

- All HSEQ requirements achieved effectively
- Workscope delivered on time and within budget