

Terasaki Retrofit Project Reference

Client:
Royal Bank of Scotland (RBS)

Project:
Circuit breaker retrofit + busbar re-routing

Location:
RBS London Headquarters, Bishopsgate
(pictured below)

Retrofit Type:
Square D to Terasaki TemPower 2



Isolation Problem Solved for RBS

Terasaki's Direct Response Service Division won a retrofit project with RBS (Royal Bank of Scotland) to replace six obsolete and unsafe Square D circuit breakers with new Terasaki TemPower 2 retrofit Air Circuit Breakers.

RBS had a second safety concern about their system: the neutral conductors could not be isolated by the original 3 pole busbar-coupling circuit breakers.

The team solved this by replacing the original 3 pole busbar-coupling circuit breakers with new 4 pole breakers and re-routing the neutral busbars through the new retrofitted circuit breakers.

Manual interlocks between transformer and busbar-coupling circuit breakers were upgraded to a fully automatic system using electronic logic control.

Despite these additional challenges, the project was completed within the agreed schedule.

Retrofit Details

Before: 6 x 4000 A Type DA Square D ACBs
3Poles

After: 6 x Terasaki TemPower 2 AR440S 4000A
4Poles

Technical challenge 1: add a switched neutral to busbar-coupling switchboard sections.
Achieved.

Technical challenge 2: upgrade interlocks from manual to automatic. Achieved.



Before: obsolete Square D circuit breakers



After: Retrofit ACB, protection relay with LCD

