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
3 Poles

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

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


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