

Turnkey Solution to Eliminate Reliability Issues Associated with Ground Faults



Problem:

The facility has experienced at least one ground fault incident each year over the past few years, resulting in the tripping of operating generation. inoLECT was contacted to review the site's fault protection systems and provide recommendations to improve system reliability during ground faults.

Recommendation:

inoLECT personnel identified the inclusion of ground fault protection at 480V switchgear levels and the lack of ground fault protection on the 480V MCC's throughout the site. This is typical for many power generation facilities. Proper selective protective device coordination could not be achieved with the existing site electrical equipment as it relates to ground faults on 480V motor circuits. Therefore, inoLECT recommended the application of high resistance grounding replace the existing solidly grounding for all of the site 480V transformers.