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PROJECT FACT SHEET

Customer: Veolia

Project: Sydney Desalination Plant De-Energised Service

Project Profile:

For the past six weeks Nilsen Engineering Services technicians have been working on a major program of HV and LV de-energised service for Veolia at the Sydney Desalination Plant.

132Kv Protection

On the HV side this has included de-energised service on three 132kv transformer protection relays unit, one 132kv busbar protection relay unit and one 132kv incomer protection relay unit. Testing included transformer differential, HV overcurrent, earth fault, line differential functions, CB Fail, and trip testing the relays.

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132Kv Switch Yard

The site 132kv switchyard was scanned using TEGG Basic Program which includes the use off a telescopic lens and the ultrasonic probe. All test results being documented in the TEGG pro software. Base lines where taken and will be compared to on the next visit.

11Kv Switch Room

Inside the plants HV switch rooms Nilsen technicians have serviced sixty four Gelpag 11kv Vacuum circuit breakers and tested sixty one SEPAM protection relays. The works included visual inspections, injection testing, functionality and trip testing, re lubricating, resistance and insulation testing.

11Kv Transformers

In addition to the above the TEGG basic program has been used and ultrasonic and infrared scanning was undertaken on thirty two 11kv transformers.

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LV Switch Boards

On the low voltage side our technicians have serviced sixty seven LV Schneider Masterpact ACBs. In addition our team has completed full functionality testing on a total of twenty two earth leakage relays and full busbar resistance testing.

Drinking Water Pump Station HV

In addition technicians have serviced the drinking water pump station which controls water leaving the desalination plant. This service included eleven Schneider 11kv vacuum circuit breakers and ten SEPAM protection relays. The works included visual inspections, injection testing, functionality and trip testing.

Drinking Water Pump Station LV

Nilsen technicians have serviced the drinking water pump LV MCC switch board including Infrared and Ultrasonic testing prior to servicing MCCB's Isolators, VSDs. The works included visual inspections, injection testing, functionality and trip testing, re lubricating, resistance and insulation testing.