

## Operations Training of NR RCS-9611 for TNBD Selangor (PMU ABBA Retrofitting Project)

PMU ABBA 33/11 kV substation supplies power to the main administrative centre of the Malaysian Government in Putrajaya.

The substation protection relays and supervisory control via the SCADA was awarded to inCONTROL TECH (iTEC), as part of TNB's upgrade exercise, . Being a "live" substation, this upgrading work involved a few phases of shutdowns to allow iTEC engineers to replace the obsolete protection, install the new fibre optical cables and IEC 61850 switches. Finally, the commission of the gateway to allow SCADA control from the advance Metro Regional Control Centre (MRCC) in TNB HQ at Bangsar was achieved.



With the success of inCONTROL Tech to retrofitting NR RCS-9611 protection and control unit in PMU ABBA on all 33kV and 11kV bays, this substation has achieved two distinct milestones in TNB. This is the 1<sup>st</sup> implementation of NARI protection Relays in TNB system and also the first substation in TNB with the new IEC 61850 communication standard.

An Operators Training of NR RCS-9611 was conducted by iTEC for a total of 25 engineers and technicians from TNBD Selangor and TNBD Putrajaya. The 1 day training was to familiarize the TNB staff with the operations and function of the RCS-9611.

We congratulate TNB on this milestone.