**RE:** Request 2022- 123 from Bushehr NPP to provide technical and organisational information via WANO

Please find below the answers to the six questions mentioned in the request:

1) There are no Schneider Electric XM200 and XD312 devices installed at Kozloduy NPP Units 5 and 6.

The insulation resistance of the DC bus bars are monitored by Bender devices, respectively A-isometer for monitoring the entire DC circuit and EDS for localisation of insulation faults of each separate feeder between DC bus bars and consumers.

2) There is no equipment used to achieve voltage symmetry in the DC busbars at Kozloduy NPP Units 5 and 6.

3) In specific conditions, the voltage asymmetry in combination with the insulation fault and the operability of the insulation monitoring device, can result in unplanned actuation of high voltage relays.

4) The are no XM200 devices installed at Kozloduy NPP Units 5 and 6.

5) The are no XM200 devices installed at Kozloduy NPP Units 5 and 6.

A-isometer is used to monitor consumers connected to conductors at a distance >100 meters. The stationary EDS monitor the feeders to the consumers but the faults is localised on the spot using a portable EDS device.

6) The consumers and the DC busbar are connected in a circuit, therefore, the decrease of insulation resistance in a specific point reflects the entire DC circuit.

Yours faithfully,

Petar Pavlov

Head of Reliable Power Supply Laboratory

Kozloduy NPP