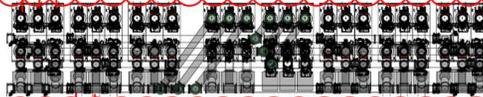


- 1) If this interconnection is 345kV O/H line, it needs several spans. Hence, the possibility of exposure to direct lightning strikes is high. Therefore, SA are needed at the transformer ends to protect them from indirect lightning strikes.
- 2) If it is an underground 345kV cable installation then, depending on its length you may not required SA at the transformer end. A PSCAD/ EMTP study will confirm that.
- 3) Considering the 345kV voltage level, and the cost of a transformer repair, my recommendation is to have SA at each transformer high side terminals.

DETERMINING CONNECTION METHOD BETWEEN TRANSFORMERS AND GIS

GIS LINEUP (OUTDOOR OR BUILDING)



- 1) Same comment is applicable here too.
- 2) Between the lattice structure and the GIS installation each line should have a SA and 345kV line disconnect switch
- 3) No idea about the size of the available land. But my preference is 345kV outdoor GIS.

DETERMINING CONNECTION METHOD BETWEEN 345OH AND GIS

INCOMING 345KV LINES

