

InsuLogix® RFM

DEPLOYMENT ON A BANK OF SINGLE PHASE TRANSFORMERS

The InsuLogix® RFM is a retrofittable fault detector for pole top transformers, distribution transformers and voltage regulators. The device detects overpressure building up inside the transformer. If the threshold has been exceeded the RFM triggers a visual indicator.

INSULOGIX® RFM APPLICATION DETAILS

In this installation, InsuLogix® RFM devices are installed in three single phase 500 kVA 14.4/7.2 kV step down transformers. This bank of transformers along with associated switches permits back feeding circuits of different voltages so that the dual voltage switches on the associated pad mounted transformers do not have to be changed from 14.4 kV to 7.2 kV.

As these transformers are used only in emergency situations and can be applied to circuits of different voltage levels to temporarily restore power, they are a vital part of the customer's rapid response to system outages providing temporary power while the cause of the outage is being addressed.

INSTALLATION DETAILS

Prior to installing the transformers in their permanent location, the existing pressure relief valves were replaced with InsuLogix® RFMs. All three transformers were installed with individual InsuLogix® RFM devices.



Once the transformers are hoisted into position, the InsuLogix® RFMs are easily visible from the ground providing responding crews with the actionable information they need when responding to an outage to mitigate an unsafe condition created when closing back into a faulted unit.

In the event of a failure, a bright orange flag would be displayed on the tripped RFM, giving a clear and certain indication that a transformer has failed and needs to be replaced prior to re-energization of the circuit.



The picture to the left provides a close up of the location of the RFM installed on one of the units.

The main purpose of the RFM is to alert the line-crew that a transformer has experienced an internal fault and should not be reenergized.



Installation is quick and easy. After a brief training session, the lead lineman performed the first install of the RFM. As he finished, he looked up and asked the trainer "Is that all there is to it? Two wrenches and two minutes!" Yes, that is all there is to it!