

CASE STUDY



Tru-Break™ module as replacement for transformer OID



In today's working environments, safety is everyone's responsibility. ABB's Elastimold engineers fully understand the importance of safety, and the Elastimold™ Tru-Break module is one way to help ensure the safety of electrical crews.

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01 Rebuilt transformer placed back into service with Elastimold Tru-Break module.

02 Failed transformer with old OID attached.

Challenge

Many electrical utilities are struggling with older transformers equipped with oil-immersed disconnects (OIDs) that have started to leak hazardous transformer oil. The resulting failure of these old OID transformers — which were designed to be live-front equipment and are no longer commercially available — creates potential for customer outages and risks the safety of the utility's crews working to repair them. A large utility company in the Northeast approached ABB's Elastimold engineers for a solution to this problem.

Solution

Elastimold engineers worked with the utility company and its outside engineering consulting firm, SD Meyers, to solve the leaking OID problem. The solution they developed was to retrofit the OID transformers to accept the Elastimold Tru-Break module, a visible-open device. By incorporating the Elastimold Tru-Break module, the customer gains an isolation point that helps provide safety and ease of grounding on either side of the circuit.

Failed OID

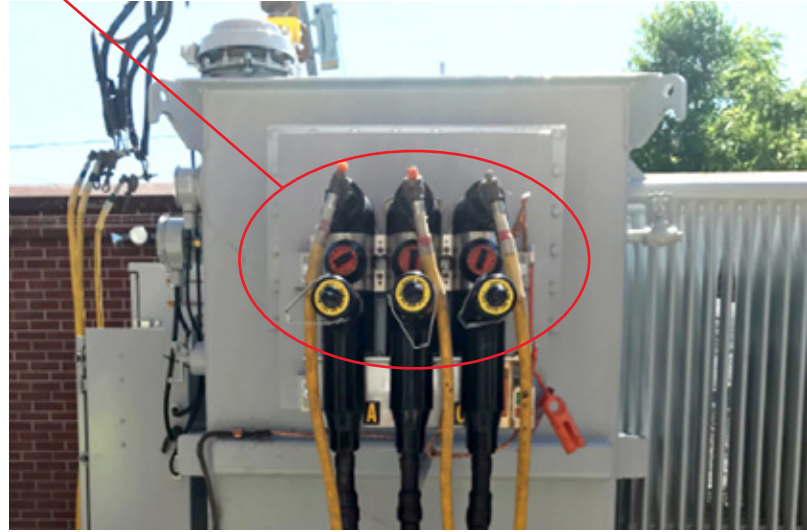


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Elastimold Tru-Break module



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03 The same transformer retrofitted with the Elastimold Tru-Break module.

04 Rebuilt transformer placed back into service with Elastimold Tru-Break module.

05 Elastimold Tru-Break module.

In addition, the solid-dielectric Tru-Break module, which uses no oil or gas, provides a visible disconnect in the circuit and transitions the transformer to a complete dead-front system, helping to improve crew safety. By adding the Elastimold Tru-Break module to their system, the utility also has the opportunity to add other ABB Elastimold dead-front products, such as T-body elbows, grounding-aid device (GAD) and surge arresters, for additional convenience and safety.

Conclusion

In today's working environments, safety is everyone's responsibility. ABB's Elastimold engineers fully understand the importance of safety, and the Elastimold Tru-Break module is one way to help ensure the safety of electrical crews.



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