

Remanufacturing and Integrity Assessment of a 27-Year-Old 25kV Gas Insulated Switchgear: A Comprehensive Study on Dismantling, Inspection, and Testing

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Abstract : This study presents the remanufacturing of a 25kV gas insulated switchgear (GIS) that operated indoors for 27 years before being decommissioned due to aging. The research involved a detailed process of dismantling, visual inspection, component-wise examination, and various testing methodologies to assess the equipment's condition. The focus was on evaluating the GIS's integrity and feasibility for remanufacturing. The results highlight the potential of remanufacturing in extending the life of electrical power equipment, offering insights into the best practices, challenges, and technical considerations of such an undertaking. This contributes to a sustainable approach in the power industry, emphasizing the reuse and restoration of aging equipment.

Keywords : remanufacturing, dismantling, gas insulated switchgear, sustainability, life extension

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