

Test Ktm Stator

Proceedings Proceedings of the 1990 International Fast Reactor Safety Meeting Energy Research Abstracts Non Ferrous Alert Achievement Science Citation Index Design, Analysis and Testing of Stator Core Loss Test of an Induction Motor Stator Measurement at a Three Phase Test Stator in Order to Develop a Large AC Motor Coil Model Concerning the Frequency Range of Fast Transient Operating Phases Performance of a Straight Stator and a Tilted Stator Tested with a High-solidity High-pressure-ratio Transonic Rotor IEEE Recommended Practice for Thermal Cycle Testing of Form-wound Stator Bars and Coils for Large Generators Control Rod Drive Mechanism Stator Loss of Coolant Test Test of Electromotor Stator Materials Exposed to Humid Hydrogen Partial Discharge Testing of Rotating Machine Stator Windings Testing Ceramic Stator Vanes for Industrial Gas Turbines IEEE Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Rotating Machines - Redline Performance of a High-work, Low-aspect-ratio Turbine Stator Tested with a Realistic Inlet Radial Temperature Gradient PERFORMANCE TEST OF 220-v THREE-PHASE STATOR FOR USE WITH 5-gpm IN-PILE LOOP PUMP. The Physical Phenomena Associated with Stator Winding Insulation Condition as Detected by the Ramped Direct High-voltage Method On the Possibility of Motor Winding Impulse Tests Increasing Stator Core Losses Carl Bernard Frank Michael D. Noland K.D. Hoffmann Leland Besel Urška Kavčič Electric Power Research Institute R. J. Bratton Lorelynn Mary Rux J. Sutton Proceedings Proceedings of the 1990 International Fast Reactor Safety Meeting Energy Research Abstracts Non Ferrous Alert Achievement Science Citation Index Design, Analysis and Testing of Stator Core Loss Test of an Induction Motor Stator Measurement at a Three Phase Test Stator in Order to Develop a Large AC Motor Coil Model Concerning the Frequency Range of Fast Transient Operating Phases Performance of a Straight Stator and a Tilted Stator Tested with a High-solidity High-pressure-ratio Transonic Rotor IEEE Recommended Practice for Thermal Cycle Testing of Form-wound Stator Bars and Coils for Large

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abstract a test method to determine the relative ability of high voltage form wound stator bars and coils of large rotating machines to resist deterioration due to rapid heating and cooling resulting from machine load cycling is described keywords delamination form wound stator bars and coils similar design bar coil slot section virgin bar coil thermal cycle testing

deregulation of the electric utility industry has increased the need to monitor the state of powerplant equipment such as critical generators and motors to improve availability and reduce life cycle costs via condition based maintenance to achieve these goals nondestructive condition assessment and diagnostic tests are necessary to evaluate the quality and condition of a machine s stator winding insulation system periodic tests are generally conducted to monitor insulation aging diagnose problems or provide some assurance that the winding has a minimum level of electrical strength the basic principles of insulation testing are presented herein and the physical mechanisms that affect the current versus voltage response are described a stator winding insulation model was developed based on this theoretical foundation for use in understanding and analyzing the macroscopic behavior of complex insulation phenomena a comprehensive controlled laboratory experiment was conducted on a set of stator coils that were deliberately manufactured with and without insulation defects specific defects were chosen to represent the types of insulation problems typically encountered during manufacture or as a result of in service aging and included lack of resin cure loosely

applied insulating tapes internal conductive contamination reduced density of the groundwall insulation and thermal cycling damage results are presented from a series of electrical tests conducted on the coil specimens to compare the effectiveness of various test methods in detecting the different insulation problems the tests included insulation resistance polarization index ramped direct voltage dissipation factor dielectric spectroscopy partial discharge and recovery voltage measurements dielectric principles and testing experience obtained during this investigation were applied to a collection of test results obtained by the author from in service machines during the past ten years these results and analyses provide a practical illustration of the ability of the ramped direct high voltage test method to distinguish between normal insulation and that with problems and to help identify the cause and extent of the deficiencies while no single diagnostic method is ideally suited to detect all possible stator winding insulation problems ramped voltage tests are shown to be useful in determining when corrective actions are needed and what the appropriate actions are

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