

# Ge Frame 6 Gas Turbine Service Manual

Ge Frame 6 Gas Turbine Service Manual GE Frame 6 Gas Turbine Service Manual A Comprehensive Guide to Operation and Maintenance This service manual is a comprehensive guide for operators and maintenance personnel responsible for GE Frame 6 gas turbines It provides detailed information on the turbines design operation maintenance procedures troubleshooting and safety protocols This manual is essential for ensuring the reliable and efficient operation of the Frame 6 gas turbine maximizing its performance and extending its lifespan 1 to GE Frame 6 Gas Turbines 11 Overview This section provides a general overview of the GE Frame 6 gas turbine including its key features applications and operational parameters 12 Design Features A detailed description of the turbines design highlighting its key components such as the compressor combustor turbine and auxiliary systems 13 Operational Parameters A comprehensive overview of the turbines operating limits performance curves and efficiency characteristics 14 Applications A summary of the typical applications of the Frame 6 gas turbine including power generation mechanical drive and other industrial applications 2 Turbine Components and Systems 21 Compressor This section focuses on the compressor explaining its stages airflow path and critical components like the rotor blades diffuser and compressor casing 22 Combustor A detailed description of the combustor its fuel injection system flame stabilization and the role of the combustion chamber in achieving optimal gas temperature 23 Turbine This section explores the turbines stages nozzle guide vanes rotor blades and turbine casing highlighting their functions in converting the hot gas energy into mechanical power 24 Auxiliary Systems An overview of the auxiliary systems supporting the turbines operation including the lubrication system cooling system fuel system control system and air intake system 3 Operation and Startup Procedures 31 PreStartup Checks A stepbystep guide for performing prestartup checks ensuring all 2 systems are in good condition and ready for operation 32 Startup Procedures A detailed procedure for safely starting the turbine including the stages of ignition acceleration and synchronization with the power grid 33 Normal Operation A description of the turbines operation in steadystate conditions including load control fuel consumption and monitoring key parameters 34 Shutdown Procedures A stepbystep procedure for safely shutting down the turbine ensuring the safe and controlled transition from operating to idle conditions 4 Maintenance and Inspection 41 Preventive Maintenance A comprehensive schedule for regular maintenance tasks including inspection intervals lubrication filter replacement and cleaning of critical components 42 Corrective Maintenance Procedures for addressing malfunctions and equipment failures including troubleshooting guides repair procedures and spare parts identification 43 Inspection Procedures

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