Contact

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Top Skills

Technical Advisory
Field Installation & commissioning
Foundation Fieldbus
Active Thin Point

Certifications

Advanced Level DLN Tunning 23- 2
GE to Alspha Cross Over 2018
Advanced Thin Client Server
Entry Level Gas Turbine Controls Mark VIe 16-1
Entry Level Gas Turbine Controls Mark VIeS 16-1

Gopinath Kumar

Lead TFA ~ Controls & Instrumentation at Field core services (GE Vernova)
Chennai, Tamil Nadu, India

Summary

Specialties: Installation, Commissioning, Maintenance of GE Gas Turbines Frame 6FA,7FA,9E,9FA,9HA Control systems & Instrumentation GE MarkVI, MarkVIe,Safety control MarkVIeS Systems controllers & BN 3500 Monitoring systems Installation & commissioning of GE/Alstom Steam turbines Critical/ Supercritical /Ultra super Critical 800MW

Experience

Field Core Services (GE Vernova)

Lead Technical Field Advisor – Controls & Instrumentation
May 2012 - Present (11 years 11 months)
India,Middle East & Africa, APAC

Manage on-site activities during installation, service, maintenance, troubleshooting and diagnostics on systems and equipment’s.
Commissioning of Field bus devices (FFB), Profibus & CAN bus devices
Review plant engineering documents. Read, understand and interpret Process Flow Diagram (PFDs) and Piping and Instrumentation Drawing (P&IDs)
Plan, organize, integrate, and directs resources such as labor, tools and materials as required to complete the work scope per contractual requirements Consult with customer management and technical counterparts including communications with other customer operators, Field managers, Environmental Health and Safety (EHS), sales, engineering, logistics, outside contractors and plant operators regarding equipment and operations regularly
Provide timely and accurate internal and external reports
Troubleshooting & diagnostics on Auxiliary systems, Fuel Gas, Lube Oil & Fire Fighting
Provide customers with technical direction and support on Original Equipment Manufacturer packages

Performing Installation, Pre commissioning, Commissioning, DLN tunning maintenance and troubleshooting activities of GE Frame-6FA, Frame-7HA ,Frame-9E,Frame-9F, Frame-9HA Gas Turbines controlled by MarkVI, MarkVIe,MarkVIeS control system.
Troubleshooting field instrumentation during major inspection & pre- startup of GE Frame-6FA,Frame-7HA,Frame-7EA, Frame-9E,9FA,9HA Turbines
Install, configure, download, and troubleshoot Control ST & ToolboxST Software, Configuration of HMI screens Cimplicity 6.1,6.2,8.2 ,9.1 & 11.1
Performing Field instruments cold & Hot loop checks
MarkVIe Logic Review and Implementation for Gas & steam turbine in Toolbox* ST in Ladder sequence
Configuration of Bently Nevada, MarkVIe control system to develop Gas/Steam Turbine models,Performing inspection, testing and calibration of Gas turbine control valves, Fuel valves, IGV & Servo valves, Installation of Retrofit modifications of Gas, Liquid Fuel turbines

Maintained and performed installation at the site for the systems and the associated equipment's as a part of routine maintenance.

GE Oil & Gas
Control System Engineer
July 2011 - May 2012 (11 months)
Bahrain

•Understand the scope of project and participate in Kick off & PDR
•Supporting & Execution of Project, Design & Manufacturing team to meet the customer requirements
•MarkVIe Logic Review and Implementation for Gas & steam turbine in Toolbox* ST in Ladder sequence
•Configuration of Bently Nevada, System 1,MarkVIe control system to develop Gas/Steam Turbine models&DCS
•Interpret Electrical, Mechanical and P&ID drawings and quality instructions
•Installing, configuring, simulating, I/Os BN3500 & MarkVIe control systems
•Testing with ADR complete sequence of Gas & Steam turbine control systems
•Lead the PRE FAT & FAT activity for Bently Nevada 3500,DCS & Mark Vie control systems

•Closing of Punch points in hardware & software to meet the customer requirements
•Scheduling, Co-ordination with other Functions to arrive on time delivery
•Translating the BOM and issue a design of the component layout, wiring layout&Panel assembly
•Leading assembly & Implementation of Work instructions
•Establishing the manufacturing processes, identify deviations and take corrective actions for process
compliance
•Lead/Participating in Continuous Improvement projects&RCA
•Driving productivity improvements & necessary tooling and material handling requirements to ensure
productivity and Safety
•Planning, scoping, tracking & implementation of project plans
•Identifying areas of improvement and recommending process modifications and equipment calibrations to enhance operational efficiencies of the systems
•Understand and Prepare test case documents and reviews test data system setup based on the project requirements
•Development team by providing a proper analysis of the observed defects
•Trouble shooting on GE Mark VIe/Mark VieS,BN 3500 &1900/65A Systems and panels
•Hands on experience on Industrial Protocols -TCP/IP, Modbus, Profibus, EGD, RS232/485
•Lead and conducting Dielectric & Insulation resistance test for panels
•Performing FAT with customer & third party inspectors

PreiPolar Engineering
Senior Project Engineer
February 2009 - July 2011 (2 years 6 months)

Designing of Unit Control Panel, Hardware, software I/O allocation & Testing
•Study & Review of Design Input Documents, P &IDs, IO database
•Design, Preparing & Quality reviewing & submitting of UCS construction layout, wiring diagram,
interconnecting diagram & ISO loop diagram as per the customer requirements
•Preparing & Quality reviewing & submitting of FAT procedure, Modbus list & Cable list to meet the
customer requirements
•Conducting Internal Test, NP reviews with GE inspector & FAT with customer for Unit control systems

•Lead the FAT activity for Bently Nevada 3500 & MarkVie & MarkVIeS Control systems
•Development of Auxiliary logics for GE gas turbine in ControlST & ToolboxST
•Configuring & adding the third-party device BN3500 with ToolboxST in EGD protocol
•Supporting the DCS vendor for third-party communication
•Logic Review and Implementation of the same in Toolbox* ST(MarkVIe) in Ladder sequence
•Reviewing, updating & customizing of ToolboxST logics & Cimplicity as per the P&ID,wiring &
interconnecting diagrams
•HMI Development in Cimplicity 6.1
•Understanding loop drawing and logic diagrams to meet Quality & customer requirements
•Modbus, EGD OPC communications with GE Control systems, Cimplicity HMIs with external systems
•Fire Fighting system integration with MarkVIe & Cimplicity6.1
•Bently Nevada 3500 System Logic development, Customization, Integration with MarkVIe, MarkVIeS &Cimplicity 6.1
•Planning Scheduling the Project Preparations of BOM, receive the quote from the supplier & placing thePurchase orders & to follow up with material receiving & coordinating

Dynaspede Integrated Systems
Service Engineer
December 2007 - January 2009 (1 year 2 months)
Chennai Area, India

•Installation & Commissioning of Test Rigs, Test drive , Multi drive systems & Printing Machines drive
systems
•Site Support Servicing of Test Rigs, PLC & Drives Control systems
• Servicing & Commissioning of Tension Control systems brakes, Clutches, Eddy Current drives & AC
drives
• Involved in Customization of Key project – Robotics System integration
•Site installation , Testing Power Electronics controllers & Special purpose Machines
• Advanced robotic systems installation & commissioning on military tankers

HI-Tech Enterprises pvt ltd
Site Engineer (Part time)
July 2004 - March 2007 (2 years 9 months)
Chennai Area, India

•Plant In charge (Sewage water treatment Plant 23MLD)
•Site Maintenance of Electrical Motors, Generators, MCC Panels
•Servicing & Commissioning of AC drives, Instrumentation Systems & Relay logic panel
•Designing of PLC & AC drives automation panels

Education

Srimuthukumaran Institute of Technology

Engineer's Degree, Electrical & Electronics Engineering · (2004 - 2007)

C M Kotheri Technological Institute

Diploma in Electrical Engineering, Measurements & Instrumentation · (1998 - 2001)