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Engineer Jamshed Saleem

“Interconnection Control Engineer” GCC Interconnection Authority KSA

2009 - till date

Working as **“Interconnection Control Engineer"**, GCC Interconnection is a link of 400 kV connected through (9–Substations) with GCC Member States on (50 Hz Kuwait, Qatar, Bahrain, UAE, Oman) & (60 Hz Saudi Arabia) via HVDC Back to Back facility \*1800 MW). Purpose of this Interconnection is to strengthen all TSO’s electrical network through reliable operations & have Power Trading to reduce generation cost with economic efficiency.

**My job description which I do; during my shift duties.**

1. Monitoring of **HVDC** back to back facility with capacity of 1320 MW, It has different modes like **ET** (Economic Transfer) which is used in case of schedule power transfer-power trading. Other two modes (**FC**-Frequency Control, **DRPS**-Dynamic Reserve Power Sharing) trigger automatically on **df/dt** & transfer values of bulk power within miliseconds super governor response through HVDC link (either 50Hz/60Hz side) with maximum support upto 1320 MW as unscheduled power in emergency due to loss of power generation & load loss incase of over frequency.
2. Monitoring of oscillatory stability modes for GCCIA Network in PMU (Phasor Measurement Unit) to avoid any Inter Area Oscillation & keep continuous monitoring "Different Frequency Modes" with damping %, Phase Angle, Voltage angle, Islanding with alarms.
3. Control transmission grid and the switching of bulk transmission lines and associated facilities.
4. Performing different daily outages/restoration in real time and issuing safety documents like (PTW-LOA-SFT-COI) as per GCC Interconnection Transmission Codes.
5. Preparing "Incident Reports" with detail information through EMS, PMU & DFR program
6. Preparing Daily Power System Report for the management.
7. Managing outages in SAP program perform different test like “Load Rejection Test” in real time with coordination of different TSO's.
8. Doing corrective action under urgent and/or emergency conditions (i.e., voltage problems, path overloads, exceeding equipment ratings, etc.)
9. Coordinating and approves planned, forced outages of the transmission system to ensure system security and reliable operations, coordinates restoration following forced outages.
10. Evaluating real-time line and equipment outage requests to determine their effect on the system.
11. Implements transmission service rights under existing contracts like ITC/PETA.
12. Directs the operation of the interconnection and voltage control equipment.
13. Analyzing the cause and extent of transmission system disturbances and interruptions impact on related facilities & TSO’s.
14. Preparing "Incident Reports" with detail information through EMS, PMU & DFR program.
15. Takes action, as necessary, to maintain system reliability, up to and including the shedding of firm customer load.
16. Monitoring & controlling of integrated GCC Grid parameters like active & reactive flow of Power, System frequency with flat tie-line frequency bias mode by integrated area control error signal.
17. Comply with Interconnection Transmission codes with adherence of international standard Safety norms for GCC Grid Operation.
18. Setting off Trading of Energy among all GCC countries through HVDC & HVAC Transmission Network
19. Have good literacy, ability to use specialized software applications like EMS SCADA/PMU/DFR/SAP
20. Have very nice skill for management of high voltage interconnected power network & operation of high voltage equipment.
21. Clear and concise reporting, had excellent written and verbal communications capability.
22. Know very well & managing problem solving in short time frames if had different critical issues within shift duty.
23. Involved many time in helping/commenting different important documents of G15/Cigre/Word Bank studying material time to time within shift duty.
24. Did the commissioning activities for the first time energization/synchronization of 400 kV GIS substation, Lines, Submarine cables, Transformers, Shunt reactors, HVDC Valve house, PLC & harmonic Filters by remote switching through EMS SCADA.

“Power Dispatch Engineer” National Grid Saudi Arabia

January 2008 - November 2009

**Transmission desk job**

* Monitoring & Operation of Saudi Electric Company (SEC) Primary & Secondary Power System through on-line load flow & state estimator of Alstom e-terra browser suite.
* Monitor schedule Interchange Power with Riyadh-Dammam through Tie Line 380kV eight Transmission Lines & 230kV four Transmission Lines while ensuring Security and Safety of SEC EOA-COA Power System.
* Maintain 380kV, 230kV & 132kV Voltage levels within prescribed limits by monitoring and controlling the system MVAR, Switching of Shunt Reactors and Transformer voltage Tap Settings, SVC & Staggering & generators excitation.
* Directs the switching operations by giving instructions to field engineers in carrying-out switching in the 380kV, 230kV, 132kV, 33kV and 13.8kV primary substations for maintenance and repair of network components, and for after fault restorations conforming all operations done in strict compliance with department safety rules and regulations giving priority to safety and security.
* Planning of operations, preparation of switching programs, analysis of operational risk and decision making, prepare contingency plans for emergency conditions
* Issue and cancel safety documents and follow-up safety documents, permit to work, limitation of access, sanction for test and any relative document pertaining to the operation and dispatch of the transmission system.
* Commissioning SCADA equipment, coordinate maintenance programs, attend to first level trouble shooting requirements.
* Coordinate operations with other operation engineers of the organization , Gencos, Discos and external parties.
* To study approve short notice outages and planned outages.
* Monitor parameters such as **MW, MVAR, SF6 Gas Pressure**, different types of alarms of Sub Station like, NSD, OLS, Fire System, Smoke Detector, GIS, Battery, Protection side & etc as per the checklist to ensure equipment are operated within prescribed operating limits.
* On Transmission Desk giving routine Transmission Switching Program of **Super Grid Transformer, Grid Transformer**, Bus Bars, Transmission lines, Shunt Reactors etc.
* Regulates the voltage and frequency, and controls active and reactive power flow in the network.
* Implement connection/disconnection process in normal and emergency operation conditions.
* To coordinate with the 33kv Distribution Control Centers for any day to day Switching Program.
* To lead the restoration of system from partial & complete collapse.

**Generation desk job**

* To Ensure & Maintain the Economic Operation of all Power Plants.
* Keep the Generation according to **MMR (Minimum Must Run)** as per different groups to avoid any Major Collapse incase of transmission network splitting.
* Responsible for the Economic Dispatch of the **SEC** Generating resources through the Automatic Generation Control System **(AGC)**. Economically maintaining the generation equivalent to the system load. To operate the System as Economically & Reliable as possible by keeping all system parameters within the permissible limits.
* Perform hourly demand forecast through **Areva Oracle Software** and special occasion’s considerations
* Directs generation output and reserve capacities at generating stations and arranges Busbar configurations according to system demand and security, economically.
* To carry out the scrapper programs of gas pipeline for different power plants with **ARAMCO** as per schedule & making all possible generation as per system requirement.
* To Conduct Routine Schedule Shut Downs of Generating Units & Network Components.
* To study & arrange emergent shut downs of power generating/transmission plants & network equipment’s.
* Preparation of system data & reports on daily basis, in evening and night shift different log sheet reports to be completed for each day.
* Apply the computer proposed generation schedule and suggest corrective actions for deviations in the real time demand pattern and deviations of availability of generators.
* In preparing and implementing the above mentioned generation schedule observe the spinning reserve criteria.
* Carry-out load shedding in pre-arranged methods in case of generation shortage or other system contingency.
* To apprise the higher authorities regarding system abnormalities.

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| “Power Dispatch Engineer” National Power Control Centre Islamabad NTDC  March 2003 - December 2008   * Monitoring & Operation of *Pakistan National Transmission Dispatch Company* primary & secondary power system. * To supervise the work of control room. * To ensure & maintain the economic operation of all power plants. * To operate the system as economically & reliable as possible by keeping all system parameters within the permissible limits. * To operate & dispatch the various IPPs in accordance with the respective PPA’s. * To conduct routine shut downs of generating units & network components. * To study & arrange emergent shut downs of power generating plants & network equipments. * Responsible for the economic dispatch of the PEPCO generating resources through the automatic generation control system (AGC). Economically maintaining the generation equivalent to the system load. Schedule power exchange with KESC through Tie Line, while ensuring security and safety of PEPCO power system and **500 kV Interconnection with Karachi Electric Supply Company.** * Maintain 500kV, 220kV and 132kV voltage levels within prescribed limits by monitoring and controlling the system MVAR, switching of Shunt reactors and transformer voltage tap settings. Monitor equipment parameters such as MW, MVAR current, temperature, SF6 gas pressure, transformer oil level etc as per the checklist to ensure equipment are operated within prescribed operating limits. * Implement connection/disconnection process in normal and emergency operation conditions. Implement system programs for the restoration of power in partial / total power Interruption * To coordinate with the Regional Control Centers (RCC’s) for the reliable system operation. * To lead the restoration of system from partial & complete collapse. * To apprise the higher authorities regarding system abnormalities. * Preparation of system data & reports on daily basis. * Perform daily demand forecast manually with historical data and weather forecast reports and special occasion’s considerations. |

**Training Courses**

* HVDC Control Operator training course, **2010 Stafford UK** by GE.
* Normal & Disturbance conditions related to real time operation of “Interconnection Power System”, 2010 by RTE France in AlKhobar KSA.
* SAP Business work flow, 2011 Alkhobar KSA
* IDM T5 Fault Recorder & PMU Phasor Point operational user course, 2012 Alkhobar KSA
* Theoretical & practical training related to transient stability assessment tool tsat, Introduction to e-tera vision network application features, **2013 Messi France** by GE.
* Wide Area Measurement System WAMS & application, 2013 Alkhobar KSA
* Developing & Maximizing your personal effectiveness, 2016 Manama Bahrain
* Introduction of Frequency Control features in HVDC, 2016 Alkhobar KSA by GE
* Reliable & Inter Area Coordination in interconnected system, 2017 Manama Bahrain
* Microsoft project 2007 level-1, 2014 Dammam KSA

**AWARDS**

On best performance as Shift Engineer (General Manager System Operation) National Transmission Dispatch Company Pakistan awarded a **“Certificate of Performance”** for early restoration of Power System during partial collapse on 8th October 2005 earthquake which hit many areas of Pakistan.

Education B.Sc in Electrical Engineering

University of Engineering & Technology Khuzdar, Pakistan, March 2003.

M.Sc in Electrical Engineering (Power)

University of Engineering & Technology Taxila, Pakistan, January 2008.

Subject completed thesis left.

MBA in (Project Management)

Preston University Islamabad Pakistan, May 2010.

Pakistan Engineering Council Reg No**: Elect/18719 dated: 08/03/2003**

Saudi Arabia Engineering Council Reg No: **67639 dated: 12/12/2013**

Reference could be provided if needed