



## Umar Nasar

**Nationality:** Pakistani **Date of birth:** 04/07/1992

**Phone number:** (+92) 3481340780 **Email address:** [nasali890@gmail.com](mailto:nasali890@gmail.com)

**Whatsapp Messenger:** +923481340780 **Skype:** +923357409532

**LinkedIn:** [linkedin.com/in/umar-nasar-98a0841a1](https://www.linkedin.com/in/umar-nasar-98a0841a1)

**Home:** Dir Lower, kpk, (Pakistan)

### ABOUT ME

Electrical Engineer having **05+ Years of Experience** as Assistant Manager Real Time Operation & Control Engineer/ Power Dispatch Engineer/ Power control Engineer at **National Power Control Center NTDC Islamabad**. As a Power control Engineer at National Power Control Center, I was responsible for safe and reliable operation of Power System Transmission and Economical Generation dispatch of WAPDA/ IPPs Generation facilities by co-ordination with plant personnel, Asset Management, Real Time Trading, generation facilities, transmission system operators, and agencies operating the plants to optimize efficiencies and revenues while ensuring system stability. Other expertise includes safe & reliable operation of NTDC Primary/ Secondary Transmission Network 500KV / 220KV / 132KV / 66KV / 33KV in order to ensure the electricity flows on the network will remain secure to accommodate increase in demand.

### WORK EXPERIENCE

#### Power control engineer/power dispatch engineer

*National Transmission and dispatch company*

City: Islamabad

Country: Pakistan

#### **Transmission Experience:**

- 500/220/132/66/33 kV Power System Control, Operations & monitoring i.e., Operation Control of NTDC/WAPDA Primary and Secondary Network through SCADA.
- Maintaining security, Stability and Reliability of the Power System through Load-Frequency and Voltage Control, maintaining loading of circuits and transformers within limits, analyzing network condition and taking necessary remedial measures.
- Switching Operations for Scheduled / Emergency Shutdowns of EHV, HV Transmission lines, Power Transformers, Shunt Reactors, Bus Bars & Circuit Breakers.
- Planning of operations, preparation of switching of programs, analysis of operation risk and decision making,
- Preparation of contingency plans for emergency conditions.
- Coordinate operations with other operation engineers of the organization, Genco's (Generation companies), Discos (Distribution companies) and external parties.
- To study approved short notice and planned outages.
- Monitor parameters such as Amperes, Voltages, MW, MVAR, SF6 Gas Pressure, Different types of alarms of sub-stations.
- To lead the restoration of system from partial and complete collapse.
- Energization of electrical equipment's i-e Transformers, C/B's, T/L's etc.
- Perform frequency and interchange regulation between WAPDA and KESC (Karachi Electric Supply Company) as well as coordinate the operation of interconnection.
- Operation, Control and Dispatch of 1<sup>st</sup> ±660kv HVDC project of Pakistan.

#### **Generation Experience:**

- Load Dispatching of HYDEL Generators, Diesel Generators, Gas Turbines & Steam Turbines.
- Generation Control of Generating Units through Automatic Generator Control (AGC) or manually w.r.t variations in Frequency (50 Hz).

- Short Time Load Forecasting and Power dispatch planning.
- Power dispatching to all Power Plants on Economic Dispatch Criteria.
- Preparation and revision of Merit Order for thermal plants (IPPs).
- Month-wise Annual Energy Estimation
- Preparation of Daily & Monthly Reports for onward submission to concerned Authorities.
- Performing hourly demand forecast in normal operation day and demand on special occasions.
- Directing generation output and reserve capacities at generating stations and arranging Bus Bar configuration according to system demand and security.
- To conduct Routine Schedule Shut Downs of Generating units and Network components.
- Applying the computer proposed generating schedule and suggest corrective actions for deviations in the real time demand pattern and deviations of availability of generators.
- Carrying out load shedding in pre arranged methods in case of generation shortage or other system contingencies.
- To apprise the higher authorities regarding system abnormalities.

## **EDUCATION AND TRAINING**

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### **Master of Business Administration -MBA ( HRM ) CGPA 3.51/4**

*virtual university* [ 06/10/2017 – 07/04/2020 ]

Address: Islamabad, (Pakistan)

Website: <http://www.vu.edu.pk/>

### **BSC Electrical Engineering CGPA 3.09/4**

*University of engineering and Technology* [ 08/09/2011 – 12/09/2015 ]

Address: Peshawar, (Pakistan)

Website: <https://www.uetpeshawar.edu.pk/>

### **F.SC Pre-Engineering Marks 894/1100, 81%**

*Islamia college* [ 06/09/2009 – 09/04/2011 ]

Address: Peshawar , (Pakistan)

### **Matriculation Marks 899/1050, 85%**

*Cambridge Public high school* [ 06/02/2008 – 06/03/2009 ]

Address: Malakand, (Pakistan)

Website: <https://bisemalakand.edu.pk/>

### **Operation, Control and Dispatch of 1st ±660kv HVDC project of Pakistan**

*PMLTC* [ 20/09/2020 – 26/09/2020 ]

Address: Lahore, (Pakistan)

Website: <https://pk.linkedin.com/company/pak-matiari-lahore-transmission-company-pvt-ltd>

## **LANGUAGE SKILLS**

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Mother tongue(s): **Urdu**

Other language(s): **English**

## **DIGITAL SKILLS**

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Microsoft Office / PSSE Xplore 34 / LMS-Scada / Team-work oriented / Good listener and communicator / Decision-making / Critical thinking / Analytical skills / Research and analytical skills

## **HOBBIES AND INTERESTS**

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**Playing and watching cricket**

**Outdoor swimming and fishing**

**Travelling**

## **HONOURS AND AWARDS**

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### **Appreciation Letter**

National power control center [ 27/07/2020 ]

Received Appreciation Letter for securing the National power system of Pakistan from collapse.

## **NETWORKS AND MEMBERSHIPS**

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### **Pakistan Engineering Council**

[ Islamabad, 11/10/2015 – Current ]

Professional Affiliation with Pakistan Engineering Council(PEC) Registration No: ELECT/52792

## **TRAININGS AND WORKSHOPS**

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**Grid code**

**Network Operation**

**Emergency Restoration Procedure of power system**

**SOPs (Standard Operation Procedures)**

**Soft Skills, MS OFFICE, REPORT WRITING**

**Load Forecast**

## **ACHIEVEMENTS**

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**Involved in successful restoration of blackout in year 2018**

**Involved in successful restoration of blackout in year 2021**

**Remain shift supervisor for more than 3 years**

**Received Appreciation Letter in year 2020 for securing the national power system from collapse**