

Mr. El-Gazzar is an expert in fossil fuel power generating plants' operation and commissioning. He has 23 years of experience in this field (in Egypt, KSA, Syria and Iran) and a B.Sc. in Mechanical Engineering. He also has the complete knowledge and experience in power plants electrical and Control systems. Besides his technical capabilities, he is a field leader in power plants operation, troubleshooting and commissioning phases.

NATIONALITY: Egyptian

EDUCATION: B. Sc., Mechanical power science Engineering, May 1987, Monofia University.

YEAR OF BIRTH: 1965

TRAINING COURSES:

- Construction Safety Health 30 hours Administration Training by (OSHA).
- GE Turbine Generator and Boiler Feed water Pump Advanced Operation & Maintenance, for El-Kureimat Thermal Power Station. Schenectady, New York August 1996 to Nov 1996
- Mitsubishi and Toshiba, safe and efficient operation and maintenance of Boiler, Turbine, Generator and Auxiliaries, Assiut Thermal Power Plant Unit No. 1 (1 x 325 MW). Japan, October 1990 to January 1991
- Bechtel Advanced Operation Training, Shobra El-Kheimma Thermal Power Plant, Cairo (4 x325MW) Ansaldo Front & Rear Natural Gas: HFO fuel, Natural Circulation Boiler, Westinghouse T/G. Cairo, August 1989 to May 1990

• **COMPUTER SKILLS:**

- Windows, Microsoft office

• **LANGUAGE CAPABILITIES:**

- Arabic (native language)
- English (good)

CHRONOLOGICAL EXPERIENCE RECORD:

Date: Oct. 2008 – Present (July 2010)
Employer: EGYPTROL
Job title: Mechanical Commissioning Manager

Job Description:

- Prepare commissioning procedure for mechanical systems.
- Plan for and supervise companies' commissioning team activities in different job sites.
- Participate in offers' preparation in bidding phase.
- Participate in electromechanical systems engineering work.
- Training of staff

March 2009 – Present (July 2010)

Supervision and support for Electro-Mechanical BoP Commissioning Teams for two power plants each 750 MW (2x2x1). Each team consisted of about 25 persons.

- Conduct team training sessions for each of the plant systems explaining the steps for commissioning and operation.
- Troubleshoot problems, review reports and direct staff for proper action.
- Participate in Commissioning Planning with EGYPTROL clients; contractors: (TOSHIBA–TOYOTA and NEM), Owner's Engineer (PGESCO), and the plants Owners' (West Delta Electricity Production Company (WDEPC) and Middel DEPC).

Date: Jan. 2008 - August 2008
Employer: KOCH/MAN Consortium Company - Iran
Job title: Commissioning Coordinator
Project: Petrochemical Fajr 1- Power Plant

- Two gas turbines General Electric (GE) frame 9E.125MW each.
- The control is mark5.
- Generator (ALSTOM).

Project Description:

- Responsible for cold and hot function tests of the unit.
- Conducted the water and oil systems flushing.
- Participate in conducting the reliability run test.
- Conducted Client Training on behalf of GE.

Date: Feb. 2007 - Dec. 2007
Employer: KOCH/SEIMENS Consortium
Job title: Leader of the Boiler and Auxiliaries Start-up In-charge Shift Engineers
Project: Al Nasseria power plant extension - SYRIA
Converting the plant to Combined Cycle operation

- Existing 3 Fiat Avio gas turbines, 115 MW each.
- Siemens 150 MW Steam Turbine/ air cooled Generator, bypass system, direct contact jet condenser cooled through a dry air cooling tower.
- NEM HRSG with HP & LP drums and forced recirculation pumps.
- All other BOP auxiliaries such as RO Demi plants, condensate polisher, raw and sanitary water systems, etc.

Project Description:

- Responsible for cold and hot function tests of the unit.
- Conduct the water systems flushing and boiler chemical cleaning.
- Conduct the boiler and steam piping blowout.
- Participate in conducting the reliability run test.
- Prepare the operation instructions documents for each plant's alarm Signal

Date: Dec. 2006 - Feb. 2007

Employer: ALSTOM – PEMCO (Power Equipment & Materials Co. LTD.)

Job title: PTW & Coordinator Eng.

Project: Rabigh Power Plant - Overhaul for units 2 and 4 (2 X 260 MW each)
Crude /HFO fired CE, drum type forced circulation reheat boiler, with IDF /FDF /GRF, ESP, Ash handling plant, MHI STG with HP/LP Bypass system, H2 cooled Generator.

Job Description:

- Define units existing problems to be corrected during the overhaul by analyzing all the units operating parameters before shutdown.
- Responsible for issuing all plant permits to work during the overhaul.
- Leading all coordination meetings between the Client and the overhaul Contractor Team.
- Responsible for conducting Boiler performance tests prior and following the overhaul.

Date: Oct. 2005 - July 2006

Employer: ALSTOM POWER-SAUDI ARABIA

Job title: Shift Leader

Project: Shoiba Power Station Stage 2 (6Units)
6 x 400 MW Crude /HFO fired CE, drum type forced circulation reheat boiler, with IDF /FDF /GRF, ESP, Ash handling plant, ABB/KWU condensing steam turbine consisting of HP cylinder, IP cylinder and LP cylinder. ADVANT ABB control system, 5X6MW Emergency & Black start diesel Generators, auxiliary boiler system, hydrogen production system.

Job Description:

- Coordinate and monitor systems flushing procedures, steam blows
- Coordinate and monitor systems pneumatic and hydrostatic testing.
- Supervise the operational testing, commissioning and startup of the plant.
- Perform isolation and safety tag out of equipment.
- Equipment operation training for the Client personnel.
- Developed, proved success by implementing for the first time the unit cold start up curves.
- Participate in the Reliability and Performance testing
- Conduct all the plant tests on completion (Run-back, Load rejection, Different equipment change over tests and all unit overhaul automatic cold, warm and hot start-up operation demonstration)

Date: Oct. 2004 - Oct. 2005
Employer: PGESCO. (Power Generation & Engineering and Service Company)
Job title: Lead Mechanical Start-up engineer
Projects: Nubaria power station (2 Units)
2 x 750 MW (Combined Cycle) consists of:-

- 4 x 250 MW SEIMENS Gas Turbine
- ALSTOM Heat Recovery & DCS
- MITSUBISHI Heavy Industry Steam Turbine
- METITO Water treatment
- CONSIG Switchyard live line wash system
- INITEC Balance of Plant

Job Description:

- Support engineering, operation by scoping for drawings to finish the simple cycle at the target date.
 - Participate in preparing the plant construction Contract Packages.
 - Review the commissioning procedures and support the contractors to meet the project schedule.
 - Review, approve and accept all plant cold & hot function tests.
 - Prepare for flushing, chemical cleaning and steam blow-out.
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Date: Apr. 2001 - July 2004
Employer: ALSTOM POWER
Job title: Shift Charge Engineer
Project: Shoiba Power Station Stage 1 (5Units)
6 x 400 MW Crude /HFO fired CE, drum type forced circulation reheat boiler, with IDF /FDF /GRF, ESP, Ash handling plant, ABB/KWU condensing steam turbine consisting of HP cylinder, IP cylinder and LP cylinder. ADVANT ABB control system, 5X6MW Emergency & Black start diesel Generators, auxiliary boiler system, hydrogen production system.

Job Description:

- Coordinate and monitor systems flushing procedures, steam blows
 - Coordinate and monitor systems pneumatic and hydrostatic testing.
 - Supervise the operational testing, commissioning and startup of the plant.
 - Perform isolation and safety tag out of equipment.
 - Equipment operation training for the Client personnel.
 - Developed, proved success by implementing for the first time the unit cold start up curves.
 - Participate in the Reliability and Performance testing
 - Conduct all the plant tests on completion (Run-back, Load rejection, Different equipment change over tests and all unit overhaul automatic cold, warm and hot start-up operation demonstration)
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Date: Jan. 2000 - April 2001
Employer: Power Generation Engineering and Services Company (PGESCO)
Job title: Start up & Shift Charge Engineer
Projects: Ayoun Moussa Thermal Power Station 2 x 320 MW

Job Description:

- Review the commissioning procedures and support the contractors to meet the project schedule.
- Review, approve and accept all plant cold & hot function tests.
- Prepare for flushing, chemical cleaning and steam blow-out.
- Participate in the Reliability and Performance testing.
- Conduct all the plant tests on completion (Run-back, Load rejection, Different equipment change over tests and all unit overhaul automatic cold, warm and hot start-up operation demonstration).

Date: July 1999 – Nov. 1999
Employer: ABB SIM- Jorf Lasfar Energy Company (JLEC), Morocco
Job title: Commissioning & Start-up Engineer
Project: Jorf Lasfar Thermal Power Station Units 3 & 4

Project Description:

2 x 345 MW Forced Circulation, Coal / HFO Fired, ABB (Combustion Engineering) design boiler, ABB (Power Generation Limited) Turbine / Generator & DCS, ABB (Sae Sadelmi) B.O.P., Aquatech Water Treatment System.

Date: May 1999 - July 1999
Employer: Babcock Wilcox (B & W)
Job Title: Commissioning Engineer
Project: Ayoun Moussa Thermal Power Station 2X320 MW

Project Description:

Natural circulation boilers (2 boilers and auxiliary boilers)
Forced draft fans and Gas recirculation fans and 18 burners.

Date: May 1996 - May1999
Employer: Egyptian Electricity Authority (EEA)
Job title: In-Charge Shift Engineer
Project: North Upper Egypt Zone, El-Kurimat Thermal Power Station

Project Description:

2 x 627 MW Natural Circulation, Natural gas / HFO Fired
B&W "El Paso" design boiler, GE T/G with Mark V control, Fisher HP/LP Bypass System and Westinghouse WDPF (DCS).
Bamag Water Treatment System.

Date: April 1990 - May 1996
Employer: Egyptian Electricity Authority (EEA)
Job title: In-Charge Shift Engineer
Project: North Upper Egypt Zone, Assiut Thermal Power Station

Project Description:

2 x 325 MW Mitsubishi (CE designed) forced circulation / Natural gas HFO Fired Boiler with ABC Control, Toshiba T/G and its auxiliary HP/LP Bypass System, Toshiba DAS, Mitsubishi BoP.

Date: 1988 - April 1990
Employer: Egyptian Electricity Authority (EEA)
Job title: Operation Engineer
Project: Cairo zone, Shobra El-Kheima Thermal Power Plant

Project Description:

4 x 325 MW Ansaldo natural circulation front & rear NG / HFO Fired Boiler, Westinghouse T/G, HP/LP Bypass System.