

Start-up, Commissioning & Operation Consultant Engineer

Holds a B. Sc. in Industrial Electronics & Control Engineering and has about 17 years hands-on experience working in operation, commissioning and start-up at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 14/01/1984
Gender : Male
Marital Status : Married
Residence : Cairo

EDUCATION

: B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2005

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Gas Turbine operation systems training at CEPC Power Plant Training Center (Apr. 2006).
: Gas Turbine Generator operation & maintenance training by TECHINT.
: Gas Compressor training by TECHINT.
: Balance of Plant operation training MARK VIe DCS functional Design, GE.
: Operating Heat Recovery Steam Generators (HRSG) by NEM.
: Operating Reheat Steam Turbine by ALSTOM.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Oct. 2019 till now
Employer : PGESCo
Project : Cairo West Supercritical Project (1x650MW Doosan reheat STG & AC Boiler supercritical boiler)
Job title : Start-up, Commissioning & Operation Consultant Engineer

Job Description :

- Flushing for all systems (Water & oil).
- Rotating equipments commissioning activities (including turbine driven feed water pumps).
- TOP review.
- Chemical cleaning process for Condensate, feed water & boiler.
- Boiler Steam blowing activities.
- Troubleshooting & analysis for any process variation.
- LOTO procedures for all mechanical & electrical systems.
- Pre-commissioning, commissioning & operation activities.

Employer : PGESCO

Project : Hayah Karima Project

Job title : Electrical Consultant Engineer

Job Description :

- Coordinating between Housing Ministry represented by Construction Authority (Project Owner), Ministry of Electricity & Contractors.
- Pulling & testing new MV/LV cables in Egyptian villages.
- Installing & testing new transformers, Kiosks & RMUs.
- Technical electrical engineering survey for MV/LV feeding various buildings in the project.
- Installing new MV/LV networks if needed.
- Checking all project paper work such IR (inspection request), MRR (Material review request), ...etc.

Dates : From May 2019 till Oct. 2019

Employer : [EGYPTROL](#), GE Energy Subcontractor

Project : West Assiut Combined Cycle Project (8x125MW GE frame 9E Gas Turbine & 2x250MW GE D-series steam turbines)

Job title : Commissioning, Operation Lead

Job Description :

- Supervise & support commissioning technicians in the execution of their activities.
- Status reporting of commissioning progress as required.
- Maintain the optimum performance of all operating units.
- Follow up safe start-up for equipments & people.
- Follow up LOTO isolation procedure, safety tags for equipments.
- Steam blowing & HRSG chemical cleaning follow up.
- Operation via Mark Vie operation control system.

Dates : From Nov. 2018 till Apr. 2019

Employer : [EGYPTROL](#), AC Boilers Subcontractor

Project : El-Shabab Project (Converting the existing simple cycle into combined cycle)

Job title : Warranty Engineer

Dates : From Jan. 2017 till May 2018

Employer : Power Generation Engineering and Service Company (PGESCO)

Project : El-Shabab Project

This new extension has four Ansaldo Caldaie HRSGs, Two Ansaldo Energia Steam turbines (Air Cooled condensers).

Job title : Start-up, Commissioning & Operation Engineer

Job Description :

- Chemical cleaning activities for HRSGs, condensate & feedwater systems.
- Plant steam blowing activities.
- Air-cooled condenser (ACC) hot-cleaning activities.
- AC Boiler 8 HRSGs Commissioning, start-up, performance, reliability tests and operation.
- Ansaldo Energia Steam turbines 2x250 commissioning, start-up, performance, reliability tests and operation.
- BOP commissioning, start-up and operation.
- Medium (6.6KV) and low (400 v) voltage switchgear.
- Follow up LOTO isolation procedure, safety tags for equipments.
- Achievement: We had reached the end of the project successfully & the plant was turned over to EDEPC (East Delta Electricity Production Company).

Dates : From Jun. 2013 till Dec. 2016

Employer : Power Generation Engineering and Service Company (PGESCO)

Project : Giza North Project (Combined Cycle 2250MW)
(Three modules, 6 GE Gas Turbine 9FA, 6 Heat Recovery Steam Generators (HRSG) manufactured by STF, 3 Steam Turbines manufactured by Ansaldo)

Job title : Start-up, Commissioning & Operation Consultant Engineer

Job Description :

- First of all a good DCS operation abilities.
- GE combustion gas turbine 6x250MW type 9FA commissioning, start-up, performance, reliability tests and operation.
- STF six HRSGs commissioning, start-up, performance, reliability tests and operation.
- Ansaldo steam turbines 3x250 commissioning, start-up, performance, reliability tests and operation.
- BOP commissioning, start-up and operation.
- Medium (6.3KV) and low (400 v) voltage switchgear.
- 500/220KV GIS operation.
- Attending of construction, start-up, commissioning, first energize for the transformers.
- Safe operations for high, medium & low voltage switch gear & load centers.
- Perform safety work permit system.
- Operation of firefighting system.
- Reading logic & check if it needs some modification according to operating requirements.
- Helping owner in operation & abnormal situations as much as I can in order to keep the whole plant & employees working in safe & secure conditions.
- Achievement: We had reached the of the project successfully & the plant was turned over to CEPC (Cairo Electricity Production Company).

Dates : From Mar. 2009 till Jun. 2013

Employer : Cairo Electricity Production Company (CEPC)

Project : North Cairo Power Station

Job title : Shift Charge Operation Engineer

- Job Description** :
- Dealing with the unit trip conditions or HRSG trip conditions even the unit is in simple cycle mode or in combined cycle mode.
 - Decide the isolation procedure for the gas turbine, HRSG, or the steam turbine in outage for inspection or overall maintenance.
 - Writing reports about troubles and decide the isolation procedure for the equipment in case of maintenance during normal operation according to safety operation rules.
 - Dealing with 220KV circuit breakers with the national dispatch center.
- Dates** : From Dec. 2005 till Mar. 2009
- Employer** : Cairo Electricity Production Company (CEPC)
- Project** : North Cairo Power Station
- Job title** : Shift Operator Engineer
- Job Description** :
- Erection, Commission, Start-up, Combustion Inspection and Operation Gas Turbine Engineer for GE 9FA.
 - Start-up and operation for HRSGs.
 - Commissioning & start-up and operation of steam turbines (cold start & warm start & hot start).
 - Start-up and operation all auxiliary systems (service water, closed cooling water, Circulating water, compressed air...etc.).
 - Check and operation for field equipment (valves, pumps ...etc.).
 - Participated in steam blow test for the heat recovery steam generators and all related constructions (it's the most important test for HRSG before starting).
 - Responsible for site acceptance tests (cleaning, commissioning and Function tests) for HRSGs & STEAM TURBINE and their associated auxiliaries.
 - Perform the steam blow-out activities for HP steam & HRH & CRH steam & LP steam lines.
 - Perform the chemical cleaning according to procedures for condensate system & feed water system.
 - Attending of construction, start-up, commissioning, first energize for the transformers.
 - Safe operations for high, medium & low voltage switchgear & load centers.
 - Perform safety work permit system.
 - Operation of firefighting system.
 - Excellent knowledge of DCS systems.
- Field of experience** :
- Working in the field of MV / LV construction & commissioning electrical consulting services & engineering in Hayah Karima Project.
 - About 17 years of experience in power plants, including Cairo North, Giza North, El-Shabab, West Assiut & Cairo West Projects.
 - Familiar with GE, ALSTOM, Ansaldo Energia & Doosan turbines.
 - Familiar with Nem, STF, AC Boiler & Doosan Heat recovery steam generators (Both Vertical & Horizontal types).
 - Familiar with different types of Feed water pumps (Electrical & Turbine driven).
 - PTW & LOTO procedures.
 - Troubleshooting for all plant components.

- GIS (500KV/220KV) & Switch gear operation activities.
- Cable & transformers testing.