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Professional summary

PMP Certified Project Manager with 15 years of experience in the Oil and Gas industry, specializing in Project Management, Commissioning, and Startup. Proven expertise in managing Onshore, Greenfield, and Brownfield projects, with a strong background in oil and gas refinery and process engineering. Skilled in LNG, LPG, crude oil treatment units, AGRU (Acid Gas Removal Unit), offsite plants, turbines, and compressors. Demonstrated proficiency in plant startup, optimization, HAZOP, and SIL. Successfully managed projects valued up to \$1.5 billion USD.

Job Ref: Project Manager/Site Manager/ Commissioning and Start-up Manager of Oil and Gas refinery/ Process Engineer/Process Supervisor/Commissioning and Start-up Engineer /Operation Engineer/Compressor Commissioning and Start up Engineer/Furnace Reboiler Commissioning and Start up Engineer/Control Room Supervisor and Operator.

Key Skills – across all roles / projects

- Engineering standards:
 - International – API, ASME, ISO, NFPA, etc.
 - Company – **SONATRACH, SIEMENS, AXENS, OICO, SNC LAVALIN, ABB.**
- Projects: Optimization / revamping/Commissioning and start-up/Rehabilitation/ CSU centrifugal compressors
- Process Engineering: PFS / PEFS / PFD / P&IDs / PSFS drawings, equipment sizing, operating manuals, etc.
- Software: **Design2, ICAPS, DCS Foxboro/ABB/Honeywell/Karman tableau**
- Safety compliance: **HAZOP, HAZID, SIL, Asset Integrity, HSE**
- Project Management.
- Provide leadership for Commissioning, Start up, Revamping, Rehabilitation, Shutdown project.
- **KPI (key performance index)** calculation, trends and variance analysis for project performance improvement.
- Risks analysis and risk responses implementation.
- Established Health, Environment & Safety HSE for Management projects & programs.
- Resources mobilization/demobilization according to resource management plan.
- Review the Reliability and Performance test procedures and the operating/maintenance O&M manuals.
- Performing the Reliability and Performance contractual test and preparing related reports.
- Training of commissioning teams.
- Conduct periodic inspections for quality requirements and implement Preventive and corrective actions.
- Ensure and audit effectiveness of work permit system and monitor the correct application of Hot and Cold work permits and certificates.
- Excellent knowledge of **DCS Foxboro/ABB/Honeywell/Karman tableau/Delta V**
- Good knowledge of turbines and compressors GE (Baker Hughes) BCL compressors, **MS5002C frame Turbines** and Siemens Turbine **SGT600/100/400**
- Good knowledge of **MARK 5/6 / CCC** (Compressors control corporation)/**PCS 7**
- Start-up and supervision of vendor package.
- Commissioning and start-up of acid gas removal unite **AGRU (Amine unit)** and **sulphur removal unit SRU** and dehydration unit with molecular sieve bed or glycol, **Mercury removal unite,**
- Expertise with Turbine **Waste Heat Recovery Unite WHRU** used in **SIEMENS** turbine (SGT100).
- Expertise with **Turbo-expander normal** and **magnetic bearing MAFITRENCH** and **CRYOSTAR.**
- **Furnace re-boiler** commissioning and start-up engineer.
- Excellent knowledge of Word, Excel, Power Point, VBA (advanced)

Work Experience & Projects

Remote Senior consultant: January 2024 – Present: with VisasQ inc.

Site Manager: November 2021-July 2022: with ABB Process Automation division

Project: pumping station SP1- ELR1:

The pumping station includes 5 parallel **GENP (General Electric- Nuovo Pignone)** LPG pumps each pump with 7 stages driven by ABB electrical motor, LPG Filtration system, Utilities, with a nominal LPG flow of 750 m³/h, the nominal capacity of the station is 3000 m³/h (4 pumps running) and the flow line more than 1700 km.

- **Managed scope:**

- Performance test of a new LPG vertical basket filters installed in the inlet pipelines of the plant with the capacity of 1600 m³/h for the pipeline LR1(20") and 1100 m³/h for the pipeline ELR1(24") from the supplier **REPCO s.r.l Italy**.
- Check the capacity and efficiency of the new filters against the black powder contaminant.
- Preparing the contractual test reports.
- Investigate and improve the plant efficiency by developing a solutions for technical issues based on the previous experience and test results such as:
 - ✓ Cooling water-overheating issue of Emergency firewater motor pump.
 - ✓ LPG valves passing issue.
 - ✓ LPG horizontal cartridge filters QOC (Quick opening and closing) Repco supplier.
 - ✓ Oil leakage of LPG pumps and motors bearings of Baker Hughes supplier (GE).
 - ✓ Flare tip damaging issue of LPG horizontal flare.
 - ✓ CCTV and anti-intrusion and access controlling system.
 - ✓ SCADA remote management system.
- Oversaw site activities and multidisciplinary teams, managed vendor visits, and ensured the timely resolution of punch list items and warranty claims

- **Achievements:**

- Successful Reliability and Performance test according to the contract.
- Resolved 100% of punch list items and warranty claims of the client within the specified timeframe.

Commissioning Manager /Site Manager: December 2020 -January2021: with ABB Process Automation division.

Project: Haoud Berkaoui project Algeria HBK: crude Oil and Flared gas recovery production plant.

The Project include 2 trains; each one include a Reciprocating Compressor with 5 Stages GE Manufacture (Baker Huges)/centrifugal compressor with 2 stages Thermodyn /HP, MP, LP separators/Flare system/Storage Area/crude oil exporting pumps/Water treatment unite/Utilities (instrument air, nitrogen unite, inhibitors injection unite.) and crude oil wells
The production of the site: 1.5 millionSTM³/day Gas and 32000 barrels of crude oil/day

- **Managed scope:**

- Managed the Commissioning activities.
- Conflict management.
- Conducted the Reliability and Performance test of trains.
- Prepared the reliability and performance test contractual reports.
- Ensured the contractual AC (acceptance certificates) signature and hand over to the end client.
- Ensured the timely resolution of the punch items and warranty claims.
- Solved the heavy gas contaminants issue.
- Solved the reciprocating compressor plate's (check valves) failure issue.
- Solved of DGS (dry gas seal) leakage issue on the centrifugal compressors.

- **Achievements:**

- Successful Reliability and Performance test according to the contract.
- Plant contractual acceptance certificates signature.

- Solved the technical issue; closed the punch items and warranty claims.
- Successful plant optimization.

Commissioning and startup Consultant: October 2020 with AXENS (HEURTEY PETROCHEM SOLUTION)

Project: Menzel Lajmet Nord MLN PROJECT Hassi Messaoud Algeria

The Project include crude oil wells/trunklines/Separators/crude oil desalting unite/stabilization column/Furnace reboiler/glycol unite/Compression unite/Exporting unite/utilities.

Client: **PERTAMINA/SONATRACH** (the plant was belonged to **ConocoPhillips** before).

- **Managed scope:**
 - Supervising the mechanical works.
 - Installing of the scaffolding and removing of the fouled radiant coil tubing.
 - Replacement of the old radiant coil tubing of the furnace with new one.
 - welding operation and inspection.
 - Hydrostatic test and dry out of the radiant coil tubing.
 - Conducted the Installation check/Instrument check/ Loop tests and BMS system check.
 - Start-up of the furnace.
 - Dry out of the replaced refractory.
 - Put the furnace in normal operation and tuning of the loops.
 - Optimization of the furnace parameters and adjusting the air dumpers.
 - Trained of the client operations teams.
- **Achievements:**
 - Successfully removed the old radiant coil tubing which was fouled with coke and scale deposit (CaSO₄ mainly) from the furnace and replace it with a new radiant coil tubing provided by AXENS HPS which improved the furnace efficiency and increased the heat capacity of the Furnace to the nominal value (25 MW with 8 Burners).
 - Solving of Furnace start up technical issue.
 - Successful Training of the client operation team.

Compressor commissioning and start up Engineer: February 2019-September 2019 with SIEMENS HANGELO turbomachinery.

Project: SCZcina project Hassi Messaoud Algeria.

Client: Dodsal Engineering and construction /Sonatrach

The project is a gas compression and reinjection station include 8 centrifugal Turbo-compressors provided by SIEMENS, with a production capacity of 24 million m³ per day.

The treated gas up to 16 million m³ /day is injected through a new installed gas-lift pipeline(20" diameter), which feeds 15 expansion stations and increases the Hassi Messaoud oil reservoir pressure, With an investment of 635 million USD.

- **Managed scope:**
 - Compressor Installation verification.
 - Loop test check.
 - Compressor Clean up run test.
 - Surge mapping of compressors and tuning of anti-surge valves.
 - Activation and check of Load sharing according to load sharing philosophy.
- **Achievements:**
 - Successful commissioning and start up of 8 centrifugal compressors:
 - 3 compressors LP STC-SV(10-7-A) discharge pressure 60 barg ;Driven bySGT600.
 - 3 compressors MP STC-SV(08-6-A) discharge pressure 250 barg.;Driven by SGT600.
 - 2 compressors HP STC-SV(06-5-A)discharge pressure 400 barg ; Driven by SGT400.
 - Successful Completion of contractual Reliability and Performance test within the milestones.

-Acceptance Certificates AC signature.

Superintendent in LPG Plant :January 2018-January 2019

Client: Sonatrach/ABB- Algeria-

- **Managed scope :**
Supervising the Construction-precom/commissioning of the LPG plant new production train with a capacity of 16 MM STDM3 of gas per day and 2500 T of LPG and 600 T of condensate per day.
- **Achievements:**
 - Successful startup of the LPG Train within the planning and Milestone.
 - LPG Plant Optimization.

Commissioning and start up Engineer for SIEMENS: July 2017-December 2017

Project: GR5 Hassi R'mel Algeria

included 3 centrifugal compressors STC-SV(12-3-A) each one 805 MMscfd driven with Turbine SGT 600 (25 MW)

- **Managed scope :**
 - Compressors Installation check.
 - Loop test check.
 - Compressors Clean up run test.
 - Surge mapping and Anti surge valve tuning.
 - Compressors Load sharing activation according to Load sharing philosophy.
- **Achievements:**
 - Successful commissioning and start-up of 3 centrifugal compressors
 - Successful Completion of contractual Reliability and Performance test.
 - Acceptance Certificates AC signature.

Commissioning and start up lead :November 2016- June 2017

Project: Central Processing Facility Rhourd nouss Algeria :Acid gas removal unite AGRU(BASF process) unit and thermal oxidizer (Zeeco supplier) with SNC Lavalin/Sonatrach.

The gas treatment complex, includes infrastructure to collect raw acid gas at four different gaz fields(Quartzites de Hamra-Tight gas field-), a natural gas processing facility and a facility to process and reinject carbon dioxide into gas reservoir. The production is 10 million cubic metres of natural gas per day/2000 m3/day of condensate with an investment of 1.1 billion USD.

- **Managed scope :**
 - Leak test of pipelines.
 - Chemical cleaning (degreasing) with soda ash and start-up of AGRU.
 - Loop check and BMS system check of Thermal Oxidizer. Start up and dry out of refractory according to supplier procedure.
- **Achievements:**
 - Successful commissioning and startup of AGRU and Thermal Oxidizer.

Commissioning and start up Superintendent: July 2016- September2016

Company: OICO – Oil Industries Commissioning and Operation Company- in Iran

Project:Phases 20/21 of South Pars LNG Refinery.

Client: Pars Oil and Gas Company (POGC)

Project: South Pars phases 20 & 21

Total investment :5.5 billion USD

Commissioning and startup Supervisor: December 2015 – June 2016

Company: OICO – Oil Industries Commissioning and Operation Company- in Iran for Phases 20/21 of

South Pars LNG Refinery.

Client: Pars Oil and Gas Company (POGC)

Project: South Pars phases 20 & 21

The south Pars gas complex include 24 Off shore wells; capacity of 2 Billion SCF/Day of natural gas;80,000 barrels/ day of condensate; LPG: 1 million tons/year; Ethane: 1 million tons/year ; Sulphur: 400 tons /day with **Total company** design and engineering.

- **Managed scope:**

Managed the commissioning teams and supervised commissioning and start up activities in phase 20/21 also coordinate with construction contractors and vendors in the different units, which includes:

- Offshore wells with glycol injection.
- subsea pipelines.
- Slug catcher (fingers type)
- Condensate stabilization.
- H2S and CO2 removal unit using MDEA (AGRU, SRU).
- Dehydration unit using molecular sieve bed.
- Mercury Removal Unit.
- Ethane extraction unit.
- NGL fractionation facility including cold box: Supervision the loading of cold box with PERLITE according to supplier procedure.
- Propane and butane treatment for mercaptans removal.
- MEG regeneration and injection.
- Export gas Unite using SIEMENS SGT600
- Propane Unit
- Storage and export Unit.
- Start up and dry out of refractory for furnaces in different unites according to supplier procedures.
- Oversaw the start-up of instrument air and Nitrogen units according to the supplier procedure.
- DCS YOKOGAWA/KTC(Kerman tableau)

- **Achievements:**

- Successful Commissioning and start up of the Refinery within the planning.

Commissioning and startup supervisor: February 2013- November 2015:

Company: Snc Lavalin/Sonatrach

Project: Central Processing Facility (CPF)

the central processing facility CPF RhourdeNouss have a Capacity of 10 MMSM3/day, including: slug catcher/ compressors and turbine (SIEMENS SGT 100;SGT400)/ **acid gas removal unit AGRU using MDEA and DEA and hot oil loop system using furnace Brand Boustead international Heaters and BMS control system** /Dehydration unit (molecular sieve beds)/ Turbo expander **CRYOSTAR** brand with Magnetic bearing/ reverse osmosis unit/ Sewage water treatment unite/oily water treatment unit with CPI (corrugated plate interceptor) system/ Instrument air and Nitrogen(Using Membranes) unit with Compressors **Ingersoll Rand**/Heat recovery system in **SGT400 turbine exhaust**/CO2 reinjection compressor **MITSUBISHI** brand with 5 stages/ **Glycol dehydration unite with TEG** /fiscal metering **EMERSON** brand/ and other utilities.

- **Managed Scope:**

- Follow up the commissioning and start up avtivities.
- Identify opportunities to improve efficiency and cost reduction measures.
- Monitor performance of installed production equipment.
- Participate in development of operating, reporting and recording procedures for gas.
- Participate in technical studies relating to gas operations and facilities.
- Established the material balance of final products production.
- Provide support to HAZOPs, HAZIDs, SILs, FATS, SATs and Operational reviews to ensure that the plant

and facilities are fit for purpose with respect to Operability and maintainability policies and legislation.

- Provide Operations Engineering support to shutdown planning and activity coordination.
- **Achievements:**
 - Successful Commissioning and startup of CPF within the planning and respecting the EHS standards .
 - Successful optimization of CPF by increasing the production and minimizing the energy consumption.

Superintendent and Process Engineer :May 2009-january 2013:

Company: Sonatarch.

Project: LPG plant

LPG plant RhourdeNouss Algeria includes 3 production trains with the total capacity of 50MillionSM3/day ; each train include Heat exchangers, drums, de-ethanizer column, debutanizer column; turboexpander **MAFI-TRENCH**; Heaters (**BORN Canada Brand** and BMS control system)/ Storage unite with 4 spheres for LPG with the capacity of 500 m3 for each one and Tanks for condensate storage/Gas Exporting unite include 2 moto compressor **Nuovo Pignone** and **3 compressors BCL driven by Turbine GE MS5002 C** and 3 LPG vertical pumps **ENSIVAL** brand(8 impellers).

- **Managed scope of the project:**
 - Managed multidisciplinary teams of 120 people.
 - Planned and organized day/shift groups.
 - Coordinate the emergency efforts as per Emergency plans.
 - Supervise maintenance activities and oversee shutdowns to ensure minimal disruptions to operations.
 - Ensure the compliance with operating procedures.
 - Analyse the operating conditions of the plant.
 - Provide coordination and leadership during start up, shut down and normal operation.
 - Responsible of the control room panel systems which include: DCS **FOXBORO** ; **Mark6 for GE turbine**, **CCC** system for **Nuovo Pignone moto compressor** and **Simplex** gas detection security system.
 - Start up and shutdown of the plant.
 - Check the quality of the products Gas; LPG and condensate according to the standard conditions.
 - Monitor the work carried out by my teams.
 - Evaluate the personals placed under my responsibility.
 - Deliver work permit and verify the application of the work procedure.
 - Peruse & take notes of reports written by various Teams in log book to comprehend the running Conditions with previous shift data.
 - write any new idea for improvement in process or safety procedures.
 - Coordinate with other supervisors in the operation department to streamline operations and improve efficiency.

Control room operator :May 2008 – May 2009

Company: Sonatarch

Project: LPG plant

- **Managed scope of the project:**
 - Checked plant parameters using DCS **FOXBORO** and ensure a quality of product and plant stability.
 - Performed start-up of a machines and gas turbine with **Mark 5**.
 - Managed start-up of trains includes De-euthanizer, debutanizer columns, turbo expander, **MAFITRENCH** brand and heaters **BORN CANADA**.
 - Managed products storage and exportation equipment including pumps; compressors.
 - Ensured the security of plant by **SIMPLEX** security system.

Plant Operator/Operations Technician :May 2007-May 2008

Company: SONATRACH

- **Managed scope of the project:**
 - Checked different equipment's in a plant.
 - Start and shutdown of any machines.
 - Performed maintenance on the machines.

January 2012: Taskforce member for elaborating work procedures for Sonatrach's plants and sites in Algerian territory using international standards, references and Algerian laws for SONATRACH group

April 2010: Participated in risk assessment with SNC-LAVALIN of LPG plant of RHOUD NOUSS-AGERIA using **HAZOP method with DNV Group.**

January 2010: Process responsible

Rehabilitation of LPG plant in RHOUD NOUSS -Algeria- after train fire incident.

May 2009: Participated in risk assessment using **HAZOP** and **SWIFT** methods for RHOUD NOUSS -ALGERIA- plants (LPG plant and condensate plant) with **DNV Group.**

Training (external and company – Switzerland; Germany; Iran; Algeria) 2005 – 2024

- **July 2024: Project management for professional certified from Project management institute PMP certification N°:3886216**
- **March 2016: H2S and SIMOPS** training in Iran.
- **July 2012:** Training with **SIEMENS COMPRESSOR** in Duisburg -Germany-
- **January and July 2011:** Training with **MAN TURBO** and COMPRESSOR in Zürich-Switzerland - for compressor Maintenance.
- **December 2010: HAZOP Leader** -Training with **DNV** foundation.
- **March-June 2005:** Training of end study in the plant 0 in Hassi R'mel –Algeria.

Education

- **2005: Petrochemical engineer diploma**, from M'HammedBougharra university (ex-INH) Boumerdes-Algeria.
- **2008:Master degree (Bac+7) in: Oil and gas processing**, from Algerian Petroleum Institute API BOUMERDES – ALGERIA-