



## Jignesh Dodiya

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### Professional Summary

Proficient Senior Process Control DCS Panel Operator & Commissioning Engineer (Operations) with more than 9 years 6 months of experience in Sulphur Recovery Unit (SRU), Amine Regeneration Unit (ARU) / Amine Treating Unit (ATU) and Sour Water Stripping Unit (SWSU) with Plant Commissioning, Startups, Shutdowns, Trouble Shootings and Normal Operations.

### Professional Experience

#### 1. Bahrain Petroleum Company (BAPCO)

Nov-2019 to till date



Responsible for controlling normal & startup/shutdown operations of SRU, TGTU, ARU and SWS from DCS to ensure safe and efficient operation in compliance with company standards and procedures.

- **Designation:** OPD- Senior Process Control Operator of SRU, TGTU, ARU & SWSU
- **Units Operating:**

##### 1. Sulphur Recovery Unit (SRU)

**Capacity:** 2 Trains of 250 TPD

**Licensor:** TPA Howe-Baker, Ltd.

**DEC:** Foster Wheeler Italia

##### 2. Tail Gas Treating Unit (TGTU)

**Capacity:** Treat 150% of the tail gas produced from operating one of the two SRUs, each at their design capacity plus Sulfinol gas.

**Licensor:** TPA Howe-Baker, Ltd.

**DEC:** Foster Wheeler Italia

##### 3. Sour Water Stripping Unit (SWSU)

**Capacity:** 2 Trains of 2232 TPD.

**Licensor:** TPA Howe-Baker, Ltd.

**DEC:** Foster Wheeler Italia

##### 4. Amine Regeneration Unit / Amine Treating Unit (ARU / ATU)

**Capacity:** 1 Trains of 3767 TPD.

**Licensor:** TPA Howe-Baker, Ltd.

**DEC:** Foster Wheeler Italia

#### 2. Nayara Energy Limited. (Formerly known as Essar Oil Ltd.)

Sep-2018 to Nov-2019



Responsible for Commissioning & initial startup operations of SRU & SWS to ensure safe, efficient operation of the units and controlling the operations from DCS to ensure safe and efficient operation in compliance with the company standards and procedures.

- **Designation:** Process Control DCS Panel Operator & Commissioning Engineer (Operations)
- **Units Commissioned & Operated:**

##### 1. Sulphur Recovery Unit with LT-SCOT (SRU & TGTU)

**Capacity:** 2 Trains of 675 TPD among this 1 train is newly commissioned on Jan- '19

**Licensor:** JACOBS, Netherland

**DEC:** Technip India

##### 2. Sour Water Stripping Unit (SWSU)

**Capacity:** 2 Trains of 6720 TPD among this 1 train is newly commissioned on Oct-'18

**Licensor:** UOP/ Technip

**DEC:** Technip India

### 3. Amine Regeneration Unit / Amine Treating Unit (ARU / ATU)

**Capacity:** 1 Trains of 21317 TPD.

**Licensor:** UOP/ Technip

**DEC:** Technip India

#### 3. Reliance Industries Ltd.

**June-2014 to Sep-2018**



Responsible for Commissioning & initial startup operations of SRU & SWS to ensure safe, efficient operation of the units and controlling the operations from DCS to ensure safe and efficient operation in compliance with the company standards and procedures.

- **Designation:** Process Control DCS Panel Operator & Commissioning Engineer (Operations)
- **Units Commissioned & Operated:**

##### 1. Sulphur Recovery Unit with TGTU & TGTU Compressor (SRU & TGTU)

**Capacity:** 2 Trains of 1270 TPD *Air Enrichment & 100% Oxygen Operation.*

**Licensor:** WorleyParsons

**DEC:** Linde Engineering India

##### 2. Sour Water Stripping Unit (SWSU)

**Capacity:** 4 Trains of 2100 TPD.

**Licensor:** Flour India

**DEC:** Flour India

#### 4. Sterling Biotech Ltd.

**June-2011 to May-2014**



Responsible for controlling the operations of Gelatin Manufacturing from DCS to ensure safe and efficient operation in compliance with company standards and procedures.

- **Designation:** Shift-In charge- Panel Operation
- **Responsibilities as a Process Control DCS Operator / Panel Operator:**
  - Accepts shift from previous shift Panel Operator with detailed log sheet of operational adjustments and changes during previous shift.
  - Monitor operating conditions thru trends and make process adjustments either through the control system or by acquiring plant site information from field operator to ensure safe and efficient process operation and report any symptom or abnormalities to Shift Supervisor.
  - Start-up and shutdown according to the instructions, safety orders and procedures.
  - Respond to emergency or upset conditions taking necessary shutdown or process adjustment action to restore stable operating conditions.
  - Constantly monitor parameters and take corrective actions if the product or emissions specification goes out of limit.
  - Continuously monitor the panel for any significant changes in operating parameters, alarms etc. and take corrective action whenever deviation is observed.
  - Co-ordinate with up steam and downstream units for any upsets.
  - Diagnose abnormal situations and takes corrective action from the control panel.
  - Reviews and compares outside log sheet readings at regular intervals with the control room instrumentation readings and ensure they correlate.
  - Reviews laboratory sample analysis results and makes necessary adjustments of the control panel instruments.
  - Preparation of daily reports on Plant performance highlights, raw materials and utilities consumption reports.
  - Participating in improvement activities and providing the input/feedback to superiors for the continual improvement in plant performance and safe operations.
  - Able to achieve normal operating conditions after start-up or emergency.
  - Address the reason for deviations in Logbook and mention the corrective actions taken.
  - Two hours outside round for unit equipment inspection with reading parameters records.

- Participated in Shutdown-2020 of Bapco and Turnaround & Inspection-2018 of Nayara Energy Ltd.
- Mock drills carried out for fire, toxic gas release, earthquake etc.
- Participate in training of new operators, panel operators thru the OTS and practice on DCS panels.

▪ **Pre-commissioning and Commissioning Responsibilities:**

- Act as Panel operator during initial startup and Test run activities and final delivering of the plant. Prepared in SAT activities (Site Acceptance Test) by revision the Graphics of DCS, I/O list, Trend groups, Interlock and Emergency Shut-Down logic, simple and complex controlling loops.
- Prepared DCS graphics like process graphics, startup graphics, sequence graphics, interlock graphics etc.
- Involved in various instrumentation systems wet loop checking like Process (Control Valves, Field Instruments), MCMS, F&G, PA, and CCTV.
- Assessment of Equipment drawing, P&IDs, Cause & Effects, Alarm & Trip points, operating manuals and vendor documents etc.
- Testing of Process interlocks, F&G interlocks, Rotary interlocks, Pumps interlocks etc.
- Involved in Testing of Reaction Furnace Advance Burner Control (ABC), Burner Management System (BMS) and Incinerator Burner Management System testing.
- Clause Air Blower and Recycle tail gas compressor start/stop sequence, Anti-Surge control testing.
- Refractory dry-out and Alkali boil-out of refractory lined equipments likes Reaction Furnace (Claus Thermal Reactor), Incinerator, RF & Incinerator WHBs, Sulfur condensers etc.
- Participated pre-commissioning and commissioning activities of the plant which includes (Mechanical completion, Punch items clearance, loops hydro test, loops flushing, loops air blowing, loops leak test, loops chemical cleaning, catalyst loading).
- Prepared daily & weekly progress reports of Pre-commissioning and Commissioning activities.
- Work closely with various disciplines including process specialist, machinery supervisor, electrical and instrumentation supervisor, equipment supervisor.
- Participated in preparing emergency shutdown procedures, equipment check list, and safety check list for the plant.
- Many suggestions given to plant logic and control scheme which were implemented as CCR and MOC.
- Implement HAZOP recommendation in automation system.
- Involved in DCS/ESD FAT (Factory Acceptance Test) and SAT (Site Acceptance Test) activities.
- Involved in configuration and testing of Honeywell OTS FAT and SAT models.
- Involved in Commissioning of F&G safety system like Deluge system, FM-200 etc.
- Involved in Alarm Rationalization and OMPro DCT preparation.
- Involved in Meridium (APM Software) and IP.21 database prepreparation.
- Participated in guaranty run of units as well as inspection.

▪ **Equipments handled:**

Claus Reaction Furnace (Claus Thermal Reactor), Incinerator (Thermal Oxidizer), Waste heat Boilers, Sulphur Condensers, Claus Reactors, Hydrogenation Reactors, Contact Condenser (Quench Column), Absorber, Regenerator, Stripper, Steam super heaters/De-super heaters, Claus air blower, Recycle tail gas compressor, Liquid Ring Compressor (LRC), Force draft Fans, LP Steam Generators, Ejectors, Carbon filter (Charcoal Filter), Ultra filtration, Ion exchangers, Multistage Evaporator, DSI system, Flash vessel, Votator, Kathabar etc.

## Skills & Competencies

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- DCS (Process Control Automation System) like Yokogawa CS1000, Foxboro Evo DCS, Yokogawa Centum VP and ESD (Emergency Shutdown System) like Triconix and Pro-Safe RS.
- Siemens PLC and Allen-Bradley PLC for Vendor Packages.
- Basic knowledge on applicable safety procedures like Permit to Work (PTW), interlock bypass, Authorized Gas Tester (AGT), Lock-Out Tag-Out (LOTO), Confined Space, Process Safety, H2S Awareness, Basic Fire Fighting and Emergency Response.
- Refinery & Downstream operations (Process, Static & Rotating Equipment)
- Pre-commissioning & Commissioning.
- Analytical thinking and Problem-Solving Skills
- Proficiency in Microsoft Word, Excel, PowerPoint, Visio.
- Ability to write logbook.
- Able to report near misses.

## Educational Qualifications

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- Bachelor of Chemical Engineering-2011 from Faculty of Technology & Engineering, M. S University of Baroda, Vadodara, Gujarat.
- HSC Science Stream under GHSEB from Sheth M. N. High School, Mahuva
- SSC Technical Stream under GHSEB from J. P. Parekh High School, Mahuva

## Projects / Trainings / Appreciations

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- Certificate of Appreciation by **WorleyPersons** for in recognition of assistance, dedication and hard work vital to successful Commissioning and startup of RIL's J3 DTA Gasification Complex Sulphur Recovery Units.
- Certificate of Appreciation for significant contribution by Reliance Industries Ltd in achieving successful completion & flawless Commissioning of J3 DTA Sulphur Complex.
- Completed summer Industrial training in **UltraTech Cement Ltd. Gujarat Cement Works**. Kovaya, Gujarat.
- Completed Seminar on '**Adsorptive Separation**' guided by Dr. Nitin Bhate, Dept. of Chemical Engineering, FTE, Vadodara, Gujarat.

## Personal Profile

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- Full Name : Dodiya Jignesh Shambhubhai
- Date of Birth : 7<sup>th</sup> May 1988
- Nationality : Indian
- Marital Status : Married
- Gender : Male
- Languages known: Gujarati, English, Hindi.
- Hobbies : Playing Cricket, Listening to music, Riding Bike.

## References

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- Provide on demand

## Declaration:

I hereby declare that the above-mentioned information is correct up to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned.

Date:

Jignesh Dodiya.