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| **5721**  **Name:**  **RAHUL RAJAN PATTERI**  **WORK EXP:**  **11 yrs. – Onshore & Offshore**  **DEGREE:**  **MSc (Eng) PROCESS SAFETY & LOSS PREVENTION**  **(UNIVERSITY OF SHEFFIELD)**  **CERTIFICATION:**  **Chartered Engineer**  **Strength:**   * **Consequence Analysis** * **Qra / Fra / Fera / Eera/ Essa** * **Comah / Pfeer Legislations** * **Ram / Fmea / Fmeca** * **FW Deluge / F&G / HAC** * **Dimensioning of accidental loads - exceedance study** * **Technical Report Writing**   **Software proficiency:**   * **dnv phast / phast risk v6.7** * **shell fred v.6.0 / shepherd v3.0** * **cfd flacs v9.0** * **pipenet / flaresim / availability work bench**   **contact:**  ✆ **+971-555269821 +919895050890**  🖰 [**rahul\_rajan69@yahoo.com**](mailto:rahul_rajan69@yahoo.com)[**rahul.patteri@gmail.com**](mailto:rahul.patteri@gmail.com) | | Being **11** years in the field of *Process safety & Loss Prevention*, covering all aspects of ***REFINERY OPERATIONS***, ***ONSHORE & OFFSHORE*** engineering and operations, i.e.   * Offshore / Onshore Field O&G Risk Management * Conceptual, FEED & Detail Engineering * Process safety & Risk Consultancy * Process safety Management (PSM) * Process Safety, Site Safety & Loss Prevention Training * Loss Prevention Operations & Maintenance   I intend to use my knowledge and experience to enhance HSE performance for the COMPANY  My career progression is tabulated below:   |  |  |  | | --- | --- | --- | | **COMPANY** | **DESIGNATION** | **PERIOD OF EMPLOYMENT** | | Abu Dhabi Marine & Operating Company (ADMA-OPCO) | Corporate HSE & Risk Engineer | January 2014 till date | | Arcadis Vectra Middle East | Senior Risk Engineer | April 2012 till January 2014 | | Petrofac International Limited, Sharjah | HSE Design Engineer | June 2010 to April 2012 | | Maire Tecnimont | Senior HSE Design Engineer | October 2007 to June 2010 | | Reliance Industries Limited, Jamnagar | Loss Prevention Engineer/**Fire Fighter** | May 2006 to October 2007 |   I am a Post graduate in MSc(Eng) Process Safety and Loss Prevention from the **University of Sheffield**  <http://tinyurl.com/oh92ecc>  My undergraduate degree is, **Safety & Fire Engineering (Honors)** from the CUSAT (Cochin University of Science and Technology, India)  <http://safe.cusat.ac.in/saf/index.php?dept=saf>  I am  I am looking forward to work with a well-established international company which gives the opportunity to grow professionally and personally  **Thanking You**  **Yours faithfully**  **Rahul Rajan Patteri**    **Note:- Please find enclosed my CV** | | |
| **Phone:**  **+971(0)555269821**  **+91(0)9895050890**  **+91(0)497-2728890** | | **E-mail:**  [rahul\_rajan69@yahoo.com](mailto:rahul_rajan69@yahoo.com)  [rahul.patteri@gmail.com](mailto:rahul.patteri@gmail.com) |

# CAREER PROGRESSION

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1. **Employer : ADMA OPCO**

[**http://www.adma-opco.com**](http://www.adma-opco.com)

**Period : January 2014 – Till Date**

**Role : Corporate HSE & Risk Engineer**

Being part of the Corporate HSE&Q Division in ADMA-OPCO, I am responsible for managing and ensuring that all the GREENFIELD and BROWNFIELD projects comply with ADMA OPCO / BP standards and guidelines:

* Develop Terms of Reference and actively participate in **HAZID / HAZOP / Design reviews / Sector Analysis / Constructability review** and other workshops.
* Assess and ensure **HSEIA / Safety Case** (COMAH, ERP) are in compliance with **ADNOC CoPs**.
* Participate in **Incident Investigations** and assist in analyzing the **Root Causes.**
* Liaise with the Construction and site management to ensure safe working practices for the COMPANY’s operating Assets**, e.g. Das Island, USSC (Umm Shaif Super Complex), SARB, Umm Lulu etc.**
* Conducting **In-House / refresher Training** for COMPANY personnel and CONTRACTORs
* Participate in the Implementation of **Process safety management (PSM)** as per CCPS – RBPS.

**Primary responsibility**

**Projects Handled & the Scope of Work in Chronological order:**

| **PROJECT / PHASE** | **SCOPE OF WORK** | **ACTIVITIES INVOLVED** |
| --- | --- | --- |
| SATAH AL RASBOOT (SARB) FIELD DEVELOPMENT  **EPC (EXECUTE)** | * Artificial Island Construction * Accommodation / Administration & Fire Station building * Flare system * SPM | * Building Architectural Review as per COMPANY std & **BP GP 44-10** * Building design review, i.e. blast resistance rating, fire rating as per **ADNOC CoP 4-03 / 5-03 & BP GP 24-24** * **CFD** Dispersion and Explosion Assessments * Temporary refuge Assessment as per **COMPANY stds & BP GP 44-30, BP GN 44-100** * Fire & gas Layout review as per COMPANY std & **BP GP 30-85** * Fire water Sprinkler calculation review as per **NFPA 13** * Clean Agent calculation review as per **NFPA 2001** * Flare radiation and dispersion study review as per **API 521 & BP GP 44-80** * Design reviews for Flare system & SPM * Review **HSEIA / Performance standards** |
| Long term Offshore Power Supply Project  **Concept (ASSESS)** | * Integration & Centralization of Power for all COMPANY assets | * Option Selection Study * FMEA and FMECA review * RAM review for the network distribution options |
| Umm Shaif & Zakum Long term Accommodation Expansion  **Concept (ASSESS)** | * Increase the accommodation to facilitate for 2019 POB | * Option Selection Study * Layout Review as per COMPANY std & **BP GP 44-10** * Calculation of incremental risk as per **ADNOC CoP 5-03 & 5-06** * Helideck orientation **as per CAP guidelines.** * Material Handling Workshop. |
| Umm Shaif - Long Term Development Plan  **Concept (ASSESS)** | * Increase the number of WHTs and develop new reservoirs | * Layout and feasibility review of options for locating various WHTs within the US Field * HAZID / HAZOP * Constructability Review workshops |
| Umm Shaif & Zakum Conversion  **FEED (DEFINE)** | * Conversion of Auto-injector well head to oil producer * Provision of gas lift facility to existing oil producer | * Escape route layout review in accordance with **COMPANY std and BP GP 44-10.** * Constructability workshop review and participation. |
| DAS Island – Long Term Development Plan  **FEED (DEFINE)** | * Upgradation of Tankfarm | * Tank farm layout in accordance with COMPANY and   **BP GP 44-10 & API 650**   * Tank farm fire protection requirement in accordance with   BP GP 24-20, The Last Fire Report, BUNCEFIELD 2005 recommendations, CAPECO 2009 recommendations & Thermal radiation Thresholds. |
| **Incident Investigation** | * Process safety Subject matter expert | * Preparation of Root Cause Analysis (RCA) for Barge Gripper Failure * Preparation of RCA on Aluminum Helideck Corrosion |
| **IN-HOUSE Trainings** | * Technical HSE familiarization for Engineers on the Project | * Introduction Trainings on:   + **Inherent Safety**   + **HAZID, HAZOP**   + **QRA, FRA,**   + **HSECES**   + **Incident Investigation**   + **ADNOC & ADMA Codes of Practice** |

1. **Employer : Arcadis Vectra Middle East ( Abu Dhabi )\*Merged with EC Harris on 2014**

 [**http://www.echarris.com/**](http://www.echarris.com/)

**Period : April 2012 – January 2014**

**Role : Senior Risk Engineer**

* Being part of a process Safety Consultancy, we are expected to deliver an unbiased and calculated estimate of the existing and / or incremental risks to the facility, and provide services to ensure that the risks are reduced to ALARP:
* Mentor and manage the Junior Risk Engineers

**Projects Handled & the Scope of Work in Chronological order:**

| **JOB/TASK** | **DESCRIPTION** | **STANDARDS / DOCUMENTS REFERRED** |
| --- | --- | --- |
| **FERA**  **(Fire Explosion Risk Assessment)** | UZ750k Upper Zakum Artificial islands | * API 520 / 521 / 2001 / 2030 * NFPA 15 / 30 / IEC 60331/2 * Shell DEP 80.47.10.30 * Scandpower guidelines |
| **QRA (Quantitative Risk Assessment)** | QP and Dolphin interconnecting pipeline project for TECHNIP | * OGP / TNO Purple Book * QRA Vol 12 (Taylor associates) |
| QP Dukhan NOx reduction project for Worley Parson | * Turbine explosion accidents * Connecticut gas blowby case study |
| **EERA (Escape Evacuation & Rescue Analysis)** | Saudi Aramco Al Wassit platforms for SAIPEM | * GS EP SAF 351 / BP RP 44-9 / CAP 437 * CMPT – DNV Spouge * IChemE Symposium papers |
| **HSEIA:**   * **COMAH** * **ERP** * **Bow-Tie** * **H&ERs** * **Performance Standards** | UZ750k Artificial islands Drilling Phase for ZADCO | * ADNOC COPV5-01 /COPV6-01 * UK HSE REGULATIONS ON COMAH |
| Umm Al Dakh drill stem testing for ZADCO |
| Samsung Nitrogen gas Injection project |
| **RAM (Reliability, Availability & Maintainability)** | QP FEED for Telemetry System Upgrade for Worley Parson | * QP-PHL-S-001 ­ QP Corporate Philosophy for fire and safety, * Handbook for Reliability, Availability, Maintainability and Safety in Engineering Design, * MIL-HDBK-217F–Military handbook– Reliability prediction of Electronic Equipment, * FARADIP, Failure Rate Data In Perspective, * Survivability of Multiple Fiber Duct Failures |
| QP Spare heat exchanger project for TECHNIP |
| QP Concept for ETP Optimization of NGL 1,2 3 and 4 for TECHNIP |
| **Pre-Audit Compliance** | Pre-Audit compliance assurance of Safety Management System | * OHSAS 18001 * ISO 9001 * ISO 14001 |

1. https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcT7LgfHtuL3VaIT80u3hgqOwVWZyefQMULLTDwBdvduWUCF28xL**Employer : Petrofac International Limited ( Sharjah )**

[**http://www.petrofac.com/**](http://www.petrofac.com/)

**Period : June 2010 – April 2012**

**Role : HSE Design Engineer**

**Projects Handled & the Scope of Work in Chronological order:**

**Assignment 1:**

**POSITION** Deputed to Petrofac Malaysia from **June 2011 to April 2012 as PMC**

**CLIENT Petrofac Floating & Production**

**PROJECT Refurbishment, Life extension and upgrading of the West Degaru MOPU**

**ROLE Précis:**

Deputed to the Malaysian office (*Petrofac E&C SD. Bud*), acting as PMC and to co-ordinate with the Lead Engineer / Manager from the Sharjah Office.

The primary role was to conduct a gap analysis of the available MOPU (Mobile Offshore Production Unit) deliverables, and make the same fit for purpose for the expected design alterations to suit the Malaysian Class requirement.

**Assignment 2:**

**CLIENT Qatar Petroleum - QP**

**PROJECT Gas Sweetening Facilities in Mesaieed & Dukhan, Qatar**

**ROLE Précis :**

Supporting the design task force on the Loss Prevention deliverables.

Brief list of activities involved:

| **WEST DESARU MOPU** | **QP GAS SWEETENING FACILITIES** |
| --- | --- |
| * Site visits and preparation of the Site visit report. * Preparation of:   + **Performance Standards for the HSECES**.   + **Hazardous Area Classification Schedule** as per **API 500**. * Review :   + **HSE Design** basis.   + **QRA & FRA** technical note.   + **Design Safety Case**.   + Calculation of the revised **Fire water demand**.   + **Passive Fire Protection** specification.   + **Fire water** PIDs.   + **Safety Plan layouts** to suit the ABS classification.   + **Hazardous Area Classification layouts** . * Participation on **HAZID, HAZOP & SIL** studies | * Preparation of :   + **Hazardous Area Classification** report and schedule as per **IP 15**.   + **Passive Fire Proofing** Report and Schedule as per **API 2218**.   + **HSE design basis,** taking reference from **QP HSE specification** and best industrial practices**.**   + Preparation of the **HAZID closeout** report.   + Preparation of the **HSE Engineering** layouts * .Review :   + **Flare dispersion report**.   + **3D model** for checking the **fire proofing** consideration for the **Shutdown valves, structures & supports** mentioned in the Passive fire proofing report. * Perform **Dispersion modeling** report for the vents using SHELL FRED * Co-ordination and participation for HAZOP & SIL |

1. **Employer : Maire Tecnimont**

[**http://www.mairetecnimont.com/en**](http://www.mairetecnimont.com/en)

**Period : October 2007 – June 2010**

**Role : Sr. Design Engineer –HSE**

**Projects Handled & the Scope of Work in Chronological order:**

**Assignment 1:**

**POSITION *Team Leader* (From March 2008 to June 2010)**

**CLIENT Sibur Holding, Russia**

**PROJECT Detail Engineering for Propane Dehydrogenation (PDH) Plant, Tobolsk, Russia**

**LICENSOR UOP**

**ROLE Précis:**

Responsible for managing HSE Design team, participating in PMC meetings, coordinating and brain storming with inter-disciplines on HSE issues and reporting the progress and revisions mandated, to my counterpart in the **Milan** office.

The team building and formulation of the deliverable list as per ITB and preparation of BEDD doc. started from **Tecnimont Milan** from March 2008**,** where I worked on deputation.

**Assignment 2:**

**POSITION *Team Player* (From October 2007 to March 2008)**

**CLIENT Borouge-2 P.O. Plant**

**PROJECT Expansion of BOROUGE PP plant**

**LICENSOR Borealis**

|  |  |
| --- | --- |
| **PROPANE DEHYDROGENATION (PDH), TOBOLSK** | **BOROUGE 2** |
| * Preparation of :   + - **HSE General Specification**, using ITB and Licensor documents.     - **Fire & Gas Detection and Alarm General Specification**, as per **NFPA 72**, Tecnimont standards and **Russian Requirements, VUPP-88**.     - **Fire Protection General Specification**.     - **Water Spray and Deluge Systems Technical Specification** as per **NFPA 15**.     - **Steam Smothering System Technical Specification** as per **GOST-12.3.047-98.**     - **Clean Agent System Technical Specification** as per **NFPA 2001**.     - **Passive Fire Prevention Specification**, as per API 2218.     - **Building Classification Report as per VUPP-88** * **Classification of Process Areas into blocks**, on the basis of their energy release, according to **PB-09-540-03** (Russian guidelines for Explosion Prevention and Mitigation) * Blast proof classification and averting the **scenario by HVAC requirements**, as per **NPB-105** | * Preparation of:   + **Fire Water Demand** calculation   + **Deluge Water Spray** mark ups for Compressors, pumps, the vessels and columns with inventory in excess of 2 m3 of Hydrocarbon (Bassel Standard).   + Mark ups for **U/G Fire Water** network.   + Mark ups for **Fire and Gas detectors** in the Process area and inside buildings.   + Markups of isolatable sections as input for inventory calculation and frequency estimation for QRA. |

1. **Employer :Reliance Industries Limited (Refinery Division),** 

[**http://www.ril.com/**](http://www.ril.com/)

**Period : May 2006 – October 2007**

**Role : Loss Prevention Engineer / Fire Fighter**

**Primary Responsibilities:-**

* Conducting trainings on:
  + *Class Room training on Fire safety preparedness within the refinery*
  + *Field training Use of Extinguishers, fire Water Hydrants, Monitors & fire hoses*
  + *Field Training Use of SCBA & EBA*
  + *Field training F&G Detection System, FM-200 system*
  + *Training on COSHH, MSDS.*
* Reviewing and commenting on the **FIRE WATER P&IDs** from **BECHTEL**, for the New Refinery Expansion, **JERP Project** (Especially for Tankages, Alkylation unit and Captive Power Plant) from the Client side.

**Secondary Responsibilities:-**

* Assisting in the upkeep and maintenance of Fixed, Portable and mobile systems.

**Achievements:**

* Most Proficient Trainee Engineer (FOPE) 2006 batch.
* Voted as best Trainer.
* Was in the first line fire-fighting crew during a major fire at the complex on the **25.10.2006**

**Personal Information**:

DOB 25/04/1983

Nationality Indian

Passport Number Z2441067

References:

* Dr. John King (Technical Director, MES)
* Raj Kochar (VP-HSE, PIL)
* Majidan Sadhu (HSE Manager, PIL)
* Buonaventuri Rossano (HSE Leader, Maire Tecnimont)
* Umesh Khandalkar (VP- Fire, Reliance)