

Summary

- Fire Protection Engineer with 8+ years of significant progressive experience in engineering Fire Protection System Design of large and medium sized Projects of Oil & Gas, Petrochemical, Refinery, Industrial, Manufacturing, Aviation, Infrastructure and Healthcare sectors in Saudi Arabia, UAE, & India.
- Acquired **CFPS** (Certified Fire Protection Specialist) recognition from NFPA.
- Building Design, Layout and space optimization and, separation pertaining to Life Safety Design complying with international Codes & Standards.
- Hydraulic and Flow Calculations
- Automatic Sprinkler Systems
- Standpipe Systems
- Firewater Networks – Public and Private Fire Service Mains
- Water Spray Systems
- Clean Agent Fire Suppression Systems (Novec-1230 & FM200)
- Various Foam Systems
- Experienced with Saudi Aramco for design of Fire Protection Systems

Some Major Projects-

- Feedstock & Site Tank Farms (SADARA)
- Ras Tanura Refinery and Terminal
- Bulk Plants
- Sulphur Recovery Unit (YERP)
- Industrial Support Facilities
- Warehouses / Workshops
- Substation Buildings
- Residential & Industrial Complexes
- Laboratories

Qualifications

Education

Bachelor of Engineering (Fire Technology) from RGPV University during 2000 – 2004.

Registrations / Associations /Certifications

- **Certified Fire Protection Specialist (CFPS)**. Certificate No. 3025
- Member of Society of Fire Protection Engineers, Saudi Arabian Chapter (SFPE-SAC).
- Member of National Fire Protection Association (NFPA – USA).
- Saudi Council of Engineers.

Information

Years of Experience

8+

Date of Birth

10th September 1982

Nationality

Indian

Languages

English, Hindi

Current Position – Mustang-HDP

Position: Lead Fire Protection Engineer/DTA

Murtaza Badshah

Lead Fire Protection Engineer/Discipline Technical Authority

Email: mbadshah@gmail.com

Experience

MUSTANG-HDP – Saudi Arabia (Nov. 2009 – Till Date)

Lead Fire Protection Engineer/DTA

Saudi Aramco Projects:

Currently leading one of the major projects related to Fire Protection – Upgrade complete firewater system at Ras-Tanura Refinery and South Terminal.

Upgrade Firewater System at Safniyah Plants and Outlying Areas (SOPD), Feedstock and Site Tank Farm @ SADARA Chemical Complex (Joint Venture of Saudi Aramco and Dow Chemicals) / Shoiba Bulk Plant (Greenfield Project located on the west coast) / Hail Bulk Plant (Greenfield Project located in the central region) / Industrial Support Facilities at Jazan Refinery (EPC-6) / Upgrade Fire Protection System at 05 Bulk Plants at WRDD / Midyan Gas Processing Plant / Expand LPG Production Facilities at Yanbu Refinery / Propane Surge Drum Deluge System at Shedgum Gas Plant / Fire Water Network at Yanbu Export Refinery for SRU-I, SRU-II and SRU-III / Upgrade Riyadh-Qassim product pipeline / Shaybah Residential & Industrial Complex (RIC) Expansion / Substations and PIB at Jubail Export Refinery Package 6 / Ras-Tanura Fire Station / Temporary Facilities for Jubail Export Refinery / Renovation of Udhailiyah Laboratory.

Non-Saudi Aramco Projects:

Al-Qassim Crude Oil Washing Plant / Reslink Facility - Workshop and Administration building / Detail engineering for construction of Warehouse @ GAS Yanbu / MACE Saudi Arabia Head Office Building / Temporary Facilities for Jubail Export Refinery.

Juma Al Majid Est for Safety & Security – UAE (Jun. 2007 – Sep. 2009)

Design Engineer - Fire Protection Systems

Projects:

Central Park-08 project at DIFC, Dubai / IBN Batuta Hotel & Spa and Gate Offices / Laguna Tower at JLT / Commercial Building for Dubai Properties at Dubai Studio City / Atlantis Management & Staff Accommodation in Jumeirah Village / Hilton Hotel Ras Al Khaimah / Marina Plaza at Dubai Marina / New Al Zahra Hospital, Dubai / Prefab Factory for Al Baddad, Technopark / Renaissance Hotel, Motorcity / Harvard Medical School / Tabreed Cooling Plants and etc.

TCE Consulting Engineers (TATA Enterprise) – INDIA (Sep. 2006 – Apr. 2007)

Mechanical Engineer

Projects:

ITC Biscuit Factory at Bangalore / Technova Imagings Pvt Ltd. at Taloja / Nuclear Fuel Complex at Palayakayal / Hindustan Newsprint Ltd at Newsprint Nagar.

New Fire Engineers Pvt. Ltd. – INDIA (Apr. 2006 – Aug. 2006)

Design Engineer - Fire Protection Systems

Murtaza Badshah

Lead Fire Protection Engineer/Discipline Technical Authority

Email: mbadshah@gmail.com

Projects:

Rayalseema Thermal Power Plant (A.P) for BHEL / Korba (East) 2x210 MW Thermal Power Plant (CSEB, Chhattisgarh State Electricity Board) for BHEL.

HSE Engineers Pvt. Ltd. – INDIA (Jul. 2004 – Feb. 2005)

Design Engineer - Fire Protection Systems

Projects:

ONGC (Uran) Project “Revamp Replacement of Fire Water Sprinkler System and Foam Pourer System on Crude Oil Storage Tanks”.

Duties and Responsibilities

- FEED / Conceptual / Detailed Design of all Fire Protection Systems for the Project.
- Proposing the most suitable Fire Protection philosophy for the project, with technical substantiation, in full compliance with all relevant NFPA Codes.
- Preparing a Concept Note or a Design Philosophy for the Project during FEED stage.
- Production of all relevant Design Drawings.
- Preparing a Design Criteria Report for the Project.
- Designing of Fire Water Sprinkler and Foam Pourer System for Crude Oil Storage Tanks in compliance with OISD and ONGC Specifications.
- Preparing Hydraulic Calculations for Water Based Fire Suppression System using Elite, FHC-Canute and PIPENET Software.
- Preparing Flow Calculation for Clean Agent Fire Suppression System using NAFS-125 Software.
- Assisting Architect in compliance to Life Safety Codes and Standards.
- Assisting Process and Piping Engineer in designing of Fire Water Network.
- Preparing Construction Scope of work for the Project.
- Preparing Construction Specifications, Tender Document with relevant Data Sheets for the Project.
- Technical Bid Evaluation for the Project.
- Vendor drawing / Data Sheets / Hydraulic Calculation review and approval.
- Organizing technical discussions between Client representatives and Contractors.
- Coordinating with the Supervising Engineer for system Installation at site in compliance with related Standards and Project Requirements.
- Identifying the technical requirements of coordinating with other disciplines and incorporating the same.
- Transfer of the philosophy into detailed Engineering Drawings, including Schematic diagrams, connection details, redundancy, service accessibility Etc.
- Selection of the right equipment with UL/FM Approval and Project Specification.

- Technical proposal of the selected equipment for Consultant Approval.
- Organizing and coordinating technical discussions between Client representatives, Consultants, Contractors and Authorities.
- Production of all relevant Shop Drawings for Consultant and Authority Approval.
- Identifying the technical requirements of interfacing with other services and incorporating the same on detailed drawings.
- Supervising the system Installation at site in accordance with NFPA and Local Authority Having Jurisdiction such as Dubai Civil Defense / JAFZA etc.
- Preparation of Material Take Offs as per approved drawings.
- Project handing over with all relevant close-out documentation (operation and maintenance manuals, as built drawings, calibration and setting data etc.).
- Designing of complete Fire Protection System for the Plant including Water Based Fire Suppression System / Foam System and Clean Agent Fire Suppression System.