

MUHAMMAD ASAD AHMAD

A seasoned professional with cross-cultural experience of more than 18 years in the field of Inspection, Testing, construction, Fabrication & Repair Inspections of Pressure Vessels, Heat Exchangers, Boiler, Power Piping & Above ground Storage Tanks (Shop & Plant Sites), Equipment's assessment & Integrity of those that have been placed into service by Repair / Alteration methodology & inspection, Knowledge of RBI, RCA, Asset integrity & Reliability in Oil & Gas and Petrochemical Industries. Quality Assurance & Control, Auditing and ASME joint reviews (shop Audits for Quality Control System & its implementation), Project management; Welding, NDE and Knowledge of International codes & Standards.

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CORE COMPETENCIES

- Team Management & Leadership
- Cross-Functional Coordination
- Static Equipments Inspection & Testing
- Inspection & Test Plans Preparation
- Quality Assurance & Compliance
- Quality System Implementation
- ASME Joint reviews (Auditing)
- Vendor Audits & Documentation
- Fabrication/Construction/Mech Completion
- Weld Plans & Quality Record Preparation
- Risk Based Inspection & Implementation
- NDE Procedures Preparation
- Health & Safety Management
- Continuous Process Improvement

CERTIFICATIONS

- ❖ **ASME Authorized & NB Repair Inspector** from NBIC Columbus Ohio, USA (Com#15484)
- ❖ **Certified API 580 Risk based** Inspection
- ❖ **Certified API 510/570/653** Inspector
- ❖ **API 571 Damage Mechanism** (Pursuing from API)
- ❖ **CSWIP 3.2.1 Sr. Welding** Inspector
- ❖ **ASNT NDT Level III** in RT/UT/MT
- ❖ **Certified ISO 9001:2000** Lead Auditor Course from Moody Int'l, Pak
- ❖ **ISO 9001:2008 Auditor Transition** from Capable People
- ❖ **Certified Quality Improvement Manager** from QPSP, Pak
- ❖ **Certified Project & HSE Manager** (Distance Learning) from NPO, Pak
- ❖ Various Safety & Technical **E-Learning** Courses

EDUCATION

2019

● **Master of Science in Mechanical Engineering** from KFUPM Dhahran, Saudi Arabia

2006

● **Bachelor of Science in Mechanical Engineering (Hons.)** from UET Taxila, Pakistan

SKILLS

- Technical Expertise
- Collaborator
- Communicator
- Planner
- Change Agent

PROFILE SUMMARY

- ❖ **Possesses skills in pioneering innovative and practical solutions to difficult problems.** Astute leader with excellent interpersonal, analytical and troubleshooting skills with ability to synthesize complex information and communicate technical issues. Productive, multi-task oriented, adapt well to change, good work ethics and meticulous and ability to work within strict deadlines and under pressure while maintaining a professional demeanor.
- ❖ **Design Verification & Inspection** (Site/Shop) for fabrication & ASME certification of static equipment like **Pressure Vessels, Heat Exchangers, Boilers, Power & Process Piping etc.**
- ❖ **Enhanced Service Quality and Static Equipment Integrity** for ASME/API coded and non-coded jobs by equipment assessment and by repair inspection (shop/plant) as per NBIC NB-23 and applicable international standards for various equipments of **Saudi Aramco** and **SABIC** plants.
- ❖ **Technical Support** to customers on **Equipment Reliability**, material selection, Investigation of failure, suitability to ensure equipment reliability and fitness for service Evaluations and involved in various maintenance/shutdown jobs as per NBIC and client specifications
- ❖ Inspection for **Saudi Aramco Vendor Inspection Division (SAP# 80007511)** for a wide range of items like Pressure Vessels, Heat exchangers, Tanks, Valves, Skids, Structural items as per ASME (Sec I, II, V, VIII, IX), B31.1 & B31.3, API (510,650,653,577,660,661), AWS, ASNT, ARAMCO etc. codes & Standards
- ❖ **Knowledge of Risk Based Inspection (RBI)/Assessment & Implementation**, software, Risk Analyses & Inspection Plan Development, Identification of Damage Mechanism & Material Selection as per applicable **API standards** like 571, 580, 581 etc.,
- ❖ **Knowledge of root cause analysis (RCA)** to identify the root cause of any damage / Equipment failure by using different techniques e.g., fault tree, fishbone, and 5-why analysis etc. and possible **corrective actions** to mitigate that situation and **preventive actions** to make sure a similar failure mode is never repeated
- ❖ **ASME Joint Review, Conversant with techniques like Quality system Auditing, Participating Internal Audits (ASME/NB QS Program Manual & ISO 17020:2012), Quality Control, Welding Engineering (WPS, PQR, Welder Qualification & Repair Welding).**
- ❖ **Development of Quality Control System, its Implementation, Procedures & documentation.** Developing Procedures, Pressure Testing & Painting Inspection, etc. Keen understanding of the formalities and implementation of Quality Systems and excellent skills in complying with the norms of highest International.
- ❖ NDT third party written practices, **NDE procedures**, NDE technicians Qualifications & certifications verification as per ASME Sec V, CP 189 & SNT-TC-1A as applicable, **Demonstration** for various **NDE methods like PT, MT, UT, PAUT & TOFD** etc.
- ❖ **Wealth of expertise across** the field of Oil & Gas like Cross country Pipelines, Bulk Plants, Storage Tanks, Repair of Storage Tanks, Offshore platforms & jackets, and plant piping for Process & Petrochemical sectors, **Skilled in developing Inspection & Test plans** and **Welding Procedures & welders/operators qualifications** and as **ed documents**

Since Mar '11

Apr '09 to Dec '10

Jan '07 to Mar '09



 **WORK EXPERIENCE**

Since Mar '11 with ABS Group Saudi Arabia as ASME Authorized Inspector and Saudi Aramco PID (GIS) Supervisor

Key Result Areas:

❖ **ASME Authorized Inspector:**

Static Equipment Inspection: Shop Inspection for complete fabrication as well as site/field inspection and certification of Pressure Vessels, Heat Exchangers, Boilers & Power Piping jobs in various manufacturing and fabrication shops for ASME codes compliance. Quality program Monitoring to ensure quality program and its implementation, Conducting & participating in ASME Joint Reviews (ASME Shop Audits) to ensure quality control system implementation with compliance to the ASME codes. Applicable design calculations & verification for materials selection, applicable heat treatment, welding, various NDE inspection techniques, pressure testing and certification.

Equipment assessment & Repair Inspection: Equipment assessment and repair inspection of static equipments (Pressure Vessels, Heat Exchangers, Boilers & Above Storage Tanks etc.) to maintain their Integrity for their intended usage by repair methodology & inspection as per NBIC NB-23 repair code and applicable International Codes & Standards

❖ **Saudi Aramco PID (GIS) Supervisor:** Supervise all aspects of inspection disciplines and give work direction to all inspection personnel in the assigned groups, Monitor work performed by site inspection personnel and verify that the construction contractor's work follows Saudi Aramco engineering requirements, standards, procedures, specifications, and Schedule Q of the project contract and to Provide technical support to Purchasing and Project Management in resolving problems concerning inspection methods and procedures for completing work within the scope. Review and approval of contractor's submitted quality documents, reports, procedures and dossiers.

Above Storage Tanks, Plant Piping & Cross-Country Pipeline Inspection: Field fabrication, erection and inspection for above storage tanks, Interconnecting piping, Plant piping and cross-country pipelines as per Saudi Aramco Engineering Standards & procedures and applicable international codes & standards for various Saudi Aramco projects

 **MAJOR SAUDI ARAMCO PROJECTS (Saudi Aramco PID SAP# 70013300)**

- ❖ **Project: BIs 10-000642, 10-03042, 10-00184, 10-00207** Berri/Abu Ali Area new substation/Trunk line Projects (Safaniyah/Tanajib)
Installation of new 230/115KV Substation and 42" trunk line TL-11 at Safaniyah GOSP-1, 10-03042 covers installation of new 36" TL-12 Pipeline inside Safaniyah GOSP-1 whereas 10-00184 project is to Upgrade Onshore Flare System of Safaniyah Plants and 10-00207 is up gradation of the industrial drainage system in various Safaniyah Plants.
- ❖ **Project: BI 10-00789** Dhahran-Riyadh DR-2 Pipeline Project (10-00789-0001-090)
Installation of new DR-2 pipeline nearly 400KMs long with 30" Dia. pipeline from Dhahran to North Riyadh bulk plant for capacity of 310MBD to transfer diesel & kerosene in order to meet the Kingdom's refined product demands in central region supply system
- ❖ **Project: BI 10-00795** Wasea Bulk Plant (10-00795-0002-091)
This project was initiated to construct a complete grass root Bulk Plant near EWPS-3. Scope includes new diesel & gasoline tanks, 14 loading skids, interconnected piping and some tie in points inside EWPS-3 community and stabilizer area
- ❖ **Project: BI 10-00612** Qassim & Sullayil Bulk Plants, Additional Capacity Phase II (10-00612-005/7-090)
The project was initiated to provide additional capacities & Expansion of Eastern & Central regions Bulk Plants storage & distribution facilities to meet Gasoline and Diesel demand growth until year 2016. Scope includes construction of new storage tanks, loading & unloading Bays, interconnecting piping and related Civil, Electrical & instrument work.
- ❖ **Project: BI 10-00421** Up Grade Crude Oil Pipeline to Riyadh Refinery, EWRR-1(10-00421-0001-090)
Project Scope of work include 32" diameter, 107.29 KM long, buried, externally FBE coated new scrap able pipeline including Scraper launcher and receiver facilities with Electrical and instrumentation facilities, Leak detection system and Cathodic Protection, East-West Riyadh Refinery (EWRR-1) originating from KP-943 of AY-1L pipeline up to Riyadh Refinery.
- ❖ **Project: BI 10-03008/3009** Safaniyah, Zulf, Marjan, Arabiyah and Hasbah Offshore Fields (10-03009-0004-090) for new jackets installation inspection



PREVIOUS EXPERIENCE

Apr'09-Dec'10

**Chicago Bridges & Iron (CB&I) Doha, State of Qatar as Senior Project Inspector (Inspection)
Shell Pearl GTL, Ras Lafan QATAR,**

Significant Highlights:

- ❖ Played a vital role in Leadership and Develop Team Sprit among subordinates, Monitoring of all the countermeasures and freezing of specifications with respect to function / usage or as per customer requirements, Ensure conformance across all functions and processes as per project specifications & requirements
- ❖ Carried out inspection for incoming materials & verification, welding & NDE of Tanks interconnecting pipings, engaged in test packages and testing of lines as per system limits, resolution of outstanding issues with all supporting documents in respect to these inspections and during pre-commissioning activities.

Jan'07-Mar'09

**Descon as Trainee Engineer (Lahore, Pak) / Olayan Descon Jubail KSA as QA/QC Engineer
Al-Waha PDH/PP Project Al-Jubail KSA**

Significant Highlights:

- ❖ Provided technical assistance to ensure that the Quality of all the Deliverables is as it should be in accordance with the Customer Requirements and Company's Best Practices in Mechanical Discipline and closely liaison with QA/QC resources to keep the things work during Fabrication, welding (procedures qualifications, welders qualifications and WPSs prepararions), painting and field erection of piping, installation of equipments and structures in Spherizone unit.
- ❖ Functioned as In-Charge test packages including preparation of more than 1000 test packages, Prepared Weld Summaries, punch points, and Line verification of the polypropylene (PP) unit and hydro/pneumatic testing of pipings (above & underground), Sequenced the construction activities w.r.t plant commissioning requirements with the support of the EPC contractor & PMT team. Development of project closeouts & lesson-learned documents.



PROFESSIONAL MEMBERSHIP

- ❖ Pakistan Engineering Council (PEC)
- ❖ Saudi Engineering Council (SEC)
- ❖ American Society of Non-Destructive Testing (ASNT)
- ❖ The Welding Institute (TWI, UK)



PERSONAL DOSSIER

Date of Birth: 01st April 1984
Languages Known: English, Urdu
Address: Sahiwal-Pakistan/Dammam-Saudi Arabia
Pak N.I.C No.: 36502-1397017-1
Passport No.: GD1150173
Marital Status: Married
Nationality: Pakistan
Driving License: KSA-2303373704; PAK-20253/11



PUBLICATIONS

- [Design of experiment based statistical approaches to optimize submerged arc welding process parameters - ScienceDirect](#) SA Transactions 94 (2019) 307–315
- [Box-Behnken design of quadratic model for Gas Metal Arc Welding \(GMAW\) and optimization analysis on desirability function - PISRT](#) Engineering and Applied Science Letters (EASL) Volume 2 (2019) Issue 1 Pages: 38- 47