



Summary of Qualifications

With over 30 years of experience in the HF Alkylation industry, Mike has been with HF Alkylation Consultants since the company's inception. Prior to joining HFAC, Mike's experience as a refinery Operations Supervisor and Superintendent included day-to-day and long range planning activities for a large HF Alkylation unit along with several associated process units. This required providing support on areas such as process safety, trouble shooting, optimization, reliability and maintenance.

Mike has participated in approximately 50 API 751 assessments in either a support or leadership capacity. Additionally, Mike brings deep operational experience from his career in HF Alkylation Units.

Career Experience

2014 to present

HF Alkylation Consultants—Senior Consultant

Key areas of focus include:

- Leading API RP-751 Audits
- General Troubleshooting
- Safety and unit operability reviews
- Project scoping
- PSSR (Pre Startup Safety Review)
- PSM/MOC (Process Safety Management/Management of Change) Supporter Participation.
- Customized Operator & Maintenance training for HF Alkylation personnel
- All technical aspects including SU & SD support, pre-turnaround chemical cleaning, turnaround preparation and support, procedure review, & troubleshooting

1976 to 2010 as itemized below:

BP (Formerly Amoco) – Texas City, TX

+30 year career with extensive operation experience in the HF Alkylation Unit

Positions included Operator, Shift Supervisor, Area Shift Coordinator, HF Alkylation Operations Coordinator, Compliance Program Manager, & PSM Coordinator.

- Developed new operating and maintenance procedures
- Project superintendent for a new license to operate requirements program
- Developed the process for populating the program that provided oversight on EPA, OSHA and state regulatory requirements for the BP refinery and chemical sites
- Coordinated day to day operations, maintenance and production on a Hydrofluoric Acid Alkylation unit
- Managed capital projects
- Planned and executed equipment and unit outages & TARs
- Developed safety, operations and maintenance procedures
- Developed extensive Hazardous Energy Isolation (Lockout/Tag out) procedures for equipment outages
- Developed and conducted training for Operations, Maintenance and Contractor personnel
- Managed safety equipment requirements (i.e. PPE improvements)
- Participated in a global safety and mechanical network that conducted Process Safety Audits (i.e. RP-751) at various locations throughout the world at BP and third party joint venture facilities
- Coordinated HAZMAT responder training and site HF specific emergency drills

1992 to 2010

Control of Work Support, Process Safety, Site Compliance & Operations Coordinator Positions

- Advisor for the new safe control of work program that was being implemented in the refinery
- Ensured Management of Change requirements (OSHA 1910.119) for process operations, procedure, chemical, and mechanical changes for a Hydrofluoric Acid process unit
- Conducted PSSR—Pre-startup safety reviews required prior to placed equipment/projects/units in service.
- Conducted process safety reviews, training and audits per API-751

1976 to 1992

Process Operations Supervisor / Chief Operator

Process Division Coordinator (Shift Superintendent) for 3 FCCU units, 2 Alkylation units and 1 Sulfur Recovery Unit

- Operations supervisor for a Sulfuric Acid Alkylation Unit, Hydrofluoric Alkylation Unit and a Sulfuric Acid plant
- Managed process operating crews
- Member of the refinery site Process Safety Committee
- In charge of commissioning a new HF Alkylation unit
- Performed duties as a process operator including asset and control board functions