

# 2020 QUALITY OVERVIEW



## PILLARS OF BOWEN QUALITY CULTURE

- Engaged from beginning to end
- Excellence during the last 5% of a project
- Never walk away from a problem
- Personal commitment to achieve zero rework on projects
- Annually audited and updated QMS process
- Alignment and collaboration with owners, operations, subs
- Active reporting and communication through the organization
- SQP Lean Construction to drive quality into projects
- Measurement, discussion of rework for continuous improvement
- Program modeled after ISO-9001

## ADDITIONAL AVAILABLE DOCUMENTS:

3 Quality Manuals (Standard, Structural Steel, Code Manual), Quality Certifications, Team Experience, Quality Overview, GMP Manual

**>200**  
WPS / PQR

### HISTORICAL WELD REJECT RATES

2015	2016	2017	2018	2019
2.410%	0.499%	0.546%	3.191%	0.59%



Advanced Certified  
Steel Erector



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## MATERIAL EXPERIENCE

- Alloys (AL-6XN, 2205, C276, P11, P22, P91), Basalt Carbon, Ductile Iron, FRP, HDPE, Inconel, Nuvaloy, PVC, Stainless, Titanium

## PROCEDURES

- GTAW, SMAW, GMAW/FCAW (RMD STT, Pulse), Orbital, ASME (Sec. 1, B31.1, B31.3, B31.8), API (620/650/653/1104)

## WELDER PREQUALIFICATION

- Onsite and Offsite AWS/ASME Testing, UA (Pipefitters), Common Arc (Boilermakers), Impact (Ironmakers)
- Union and Merit Shop Craft

## TESTING

- Hydraulic, Pneumatic, 3rd Party NDE, Pigging, Purging, High Purity Cleaning, Post-Weld Heat Treat, X-Ray, Phased Array (PAUT), Ultrasonic Testing

## BOWEN QUALITY TEAM CERTIFICATIONS/EXPERTISE

- Certified Weld Inspectors, NACE Inspectors, HDPE Subject Matter Experts, ASME Subject Matter Experts, ACI Level 1 Inspectors

## TRAINING/RESOURCES

- Quality segment in orientation, mechanical construction training, welding 101 for management, SQP lean construction training, civil construction training, frequent distribution of quality shorts and quality snapshots, actively managed lessons learned database

## 2020 AREAS OF CONTINUOUS IMPROVEMENT

- Addition of Train the Trainer program for quality processes
- Increase internal/external audits
- New "Focus on the Risk of Rework" Program



## BOWEN SELF-PERFORM

- Sitework, civil, structural steel, pre-engineered buildings, BOP mechanical, boilermaker, equipment setting

