



ENGINEERING PROJECTS CONSTRUCTION QUALITY PLAN

OPS0210-PRO2

Derrick Lam
Construction Coordinator

CONSTRUCTION COORDINATOR

- Implementing the Construction Quality Plan and associated procedures.
- Monitoring and reporting Quality performance to the appropriate stakeholders.
- Acting as liaison with external parties on matters relating to construction quality.
- When required, conducting meetings with contractors to:
 - review the Contractors' Quality Plans, Inspection/Test Plan(s), Quality Control Procedures, and
 - ensure the contractors' understanding of EPrs Quality expectations.

CONSTRUCTION COORDINATOR

- EPr Construction Coordinators periodically visit contract fabrication yards to visually inspect work and ensure that contractors are fully following their EPr-approved quality procedures.

CONSTRUCTION PROJECT MANAGER

- Review drawings for constructability.
- *Monitor and track field change order approvals.*
- *Ensure redlines and change orders are implemented in the field and then communicated back to engineering*
- Responsible for developing and supplying quality work pack for field review
- Responsible for appropriate storage of construction records including red-line drawings

FABRICATION YARDS

- Materials meet Shell specifications.
- Welder certifications
- Test records of fabricated materials
- Ensure that all equipment installed per Shell standards.
- Is responsible for all quality aspects of their work, including inspection and testing in accordance with procedures approved by EPr and record retention.
- Documented fabrication procedures, where the absence of such procedures could adversely affect quality
- Compliance with referenced standards/codes and/or quality plans
- Monitoring and control of welding and other fabrication processes, as appropriate

FABRICATION YARDS

- Criteria for workmanship, based on written, representative samples or illustrations
- Equipment purchased by engineering shall have a site visit during fabrication

Additional controls may consist of the following, as applicable:

- Inspection summaries,
- Isometric Drawing Process.
- EPr Work Processes (Site-Specific Work Instructions),
- Contractor/Subcontractor Inspection Plan(s)
- EPr-supplied drawings and specifications,
- Industry-recognized Standards,
- Engineering offsite/ onsite reviews

OFFSHORE SUPERINTENDENT

- Ensures contractors' approved quality plan is being followed.
- Responsible for supplying all quality records to Construction Representative prior to work sign off.
- Ensures contents of toolhouses meet Shell and contractor requirements (e.g. rigging requirements, inspection requirements)
- Report non-conformances and other quality issues to Offshore Construction Representative onsite and to the Construction Project Manager at OSS
- Responsible for ensuring field installation is in accordance with Shell Standards by completing mechanical and I&E checklists (TO.01, TO.02) to verify quality installation.

STORAGE OF RECORDS

- Shop fabrication records will be kept and the fab yard and made available to Construction Rep. On request
- Field records will be kept on site until job completion
- All reports should be scanned and sent back to Project Managers for storage upon completion of work
- Project Managers will store completed work packs along with all test records for future reference

