

OWNER

General Requirements and Definitions



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TORUS

[REDACTED] [REDACTED], [REDACTED] County, [REDACTED]

ISSUE SUMMARY AND APPROVAL

This page records each issue of SPC-SPC-001. The preparer, reviewer and approver sign for each revision.

Rev.	Date	Issue purpose	Description
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Contributors

Rev.	Discipline	Prepared by	Reviewed by	Approved by
A	Specifications			

SECTION PC-SPC-001
GENERAL REQUIREMENTS AND DEFINITIONS

PART 1 GENERAL

1.01 SUMMARY

A. Section includes the general administrative, technical and quality requirements that apply to all construction of the . Every other section of Volume 8 (SPC-SPC-002 to SPC-SPC-020) shall be read together with this section, and where another section is silent this section shall govern. Section includes:

1. Construction of the station between inlet insulating joint IJ-101 and outlet insulating joint IJ-102, and of the Owner's buried 12 in outlet lateral from IJ-102 to the outlet flange of the tap valve, about 96 ft buried plus the riser and crossing road R-3 below grade (final length by survey, HOLD H-04).
2. Definitions of the parties, their authority and the lines of communication, including the interface with (the receiving pipeline operator).
3. Order of precedence of the contract documents.
4. The hold, witness and review point system used by every section and compiled in SPC-SPC-019, Inspection and Test Plan.
5. Requests for information, management of change for field changes, deviations and nonconformance.
6. Document control, submittals, as-built redlines and construction records.
7. The critical lift definition, working hours, operator qualification and general site rules.

B. Related sections: all sections of Volume 8; in particular SPC-SPC-019, Inspection and Test Plan, and SPC-SPC-020, Construction Records and Turnover.

C. Work by others:

1. The upstream 12 in lateral up to IJ-101, built by the Owner under a separate project.
2. The 12 in hot tap fitting on the 24 in trunkline, the tap valve, and the receiving pipeline operator's remote terminal unit and remote shutoff at the tap, by the receiving pipeline operator or its contractor.
3. Utility power service and transformer XF-101, by the electric cooperative (HOLD H-10). The Contractor shall build the transformer pad, conduits and grounding.
4. Procurement of Owner-furnished material, by the Owner. Receipt, inspection, storage and installation of that material is Contractor work under 2.02.

1.02 REFERENCES

A. Codes, standards and regulations. The edition in force on the design date governs unless an edition is stated:

1. 49 CFR Part 192, Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards, including Subpart N, Qualification of Pipeline Personnel. The station is designed to transmission requirements irrespective of its gathering classification.
2. 49 CFR Part 199, Drug and Alcohol Testing.
3. 165:20, , Gas and Hazardous Liquid Pipeline Safety.
4. ASME B31.8-2022, Gas Transmission and Distribution Piping Systems.
5. API Standard 1104, 22nd Edition (2021), Welding of Pipelines and Related Facilities; ASME Boiler and Pressure Vessel Code, Section IX (2023).
6. 29 CFR 1910 and 29 CFR 1926, including 1926 Subpart P (Excavations) and Subpart CC (Cranes and Derricks in Construction).
7. Underground Facilities Damage Prevention Act, 63 O.S. Section 142.1 et seq.
8. ASME B30.5-2021, Mobile and Locomotive Cranes; ASME PCC-1-2022, Pressure Boundary Bolted Flange Joint Assembly.
9. ISO 9001:2015, Quality Management Systems (as the structure of the Contractor's quality plan).

B. Project documents:

1. GEN-RPT-002, Design Decisions Register, and GEN-DB-001, Basis of Design. Where the two differ, the register governs.
2. PRO-DWG-100 to PRO-DWG-111, P&ID Legend and Piping and Instrumentation Diagrams.
3. MEC-LST-001, Line List; PIP-SPC-001, Piping Material Specification; MEC-LST-002, Mechanical Equipment List.
4. MEC-DWG-001, Plot Plan, which governs equipment positions, internal roads R-1 to R-7 and pipe routes.
5. CON-RPT-001, Construction Execution Plan; CON-RPT-002, Contractor Scope of Work and Bid Form; CON-RPT-003, Construction HSE Plan; CON-CAL-001, Critical Lift Plans.
6. REG-RPT-002, Permit and Approvals Matrix.

1.03 DEFINITIONS

A. Parties and their authority:

1. Owner: the company that will own and operate the station. The Owner holds the construction contract, furnishes the Owner-furnished material, holds the permits listed as Owner-held in REG-RPT-002, and is the operator of record under 49 CFR 192. The Owner acts on site through the Owner's Representative.

2. Owner's Representative: the individual named in writing by the Owner, with authority to direct the Contractor within the contract, release Owner hold points, approve Class 1 changes, and sign field change orders up to the value stated in the contract.
3. Owner's Inspector: an individual named by the Owner to inspect, witness tests and release inspection hold points. Welding inspectors shall hold AWS Certified Welding Inspector or API 1169 certification, and coating inspectors AMPP Coating Inspector Program Level 2 or higher. The Owner's Inspector shall not change the design.
4. Engineer of Record (EOR): the -licensed professional engineer responsible for the design, who seals the construction documents. Only the EOR may approve a change that affects design pressure, material, code compliance, structural capacity, safety instrumented functions, relief, area classification or the maximum allowable operating pressure records.
5. Contractor: the construction contractor holding the contract with the Owner, including all subcontractors and suppliers of every tier. The Contractor is responsible for the means, methods, sequence, safety and quality control of its own work.
6. Receiving pipeline operator: , which operates the 24 in trunkline and performs the hot tap. Its witness rights, notification periods and technical requirements at the interconnect are set by the Interconnect and Operating Agreement and its requirements (HOLD H-01, H-04). The receiving pipeline operator's representative communicates with the Contractor only through the Owner's Representative, except on immediate safety matters.
7. Vendor: a supplier of Owner-furnished or Contractor-furnished equipment, including its service representatives on site.

B. Terms:

1. Shall: a mandatory requirement. Should: a recommended practice; a departure shall be justified in writing to the Owner's Representative.
2. Issued for Construction (IFC): documents at revision 0 or later, sealed by the EOR. Only IFC documents shall be used to build. Revision A documents, including this section, are issued for review and bid and shall not be used for construction.
3. Owner-furnished material (OFM) and Contractor-furnished material (CFM): as defined in CON-RPT-002.
4. Hold point (H): a point beyond which work shall not proceed without written release by the named party. Witness point (W): a point at which the named party is notified and may attend; work may proceed if the party does not attend at the notified time. Review (R): document review by the named party. Surveillance (S): unscheduled monitoring. Perform (P): the party that does the work and records it.
5. Mechanical completion: a system installed, tested and documented to the specifications, with category A punch items closed (SPC-SPC-018). Ready for startup: all pre-startup items closed and the pre-startup safety review signed.

6. Live gas: any pipe, fitting or equipment containing natural gas under pressure, including the trunkline and any part of the station after gas-in.

7. Right-of-way: the 50 ft right-of-way of the receiving pipeline operator, containing the 24 in trunkline with its centerline about 60 ft north of the north fence (plot Y = 260), HOLD H-04.

C. Abbreviations used in Volume 8: AUT automated ultrasonic testing; CP cathodic protection; DFT dry film thickness; ESD emergency shutdown; FAT and SAT factory and site acceptance test; ITP inspection and test plan; JSA job safety analysis; MAOP maximum allowable operating pressure; MOC management of change; MT magnetic particle testing; MTR material test report; NCR nonconformance report; NDE nondestructive examination; OPSS overpressure shutdown system; OQ operator qualification; PT liquid penetrant testing; RFI request for information; RT radiographic testing; SIS safety instrumented system; SMYS specified minimum yield strength; SWPPP stormwater pollution prevention plan; WPS welding procedure specification.

1.04 SUBMITTALS

A. The Contractor shall submit the items in Table 1-1.

Table 1-1: General Submittals

No.	Submittal	Timing	Action
001-01	Organization chart naming the project manager, superintendent, quality control manager, HSE manager and welding supervisor, with resumes	14 days after award	Owner approval
001-02	Project quality plan (1.05 B)	21 days after award, before mobilization	Owner approval, EOR review
001-03	Contractor ITP aligned with SPC-SPC-019, adding the Contractor's internal checks and form numbers	21 days after award	Owner approval
001-04	Site-specific HSE plan and job safety analyses consistent with CON-RPT-003	21 days after award	Owner approval
001-05	Baseline schedule: critical path, resource loaded, showing every hold point, the receiving pipeline operator's interface dates and the permit constraints of REG-RPT-002	21 days after award	Owner approval
001-06	Submittal register listing every submittal of SPC-SPC-001 to SPC-SPC-020 with planned dates	14 days after award, updated weekly	Owner review
001-07	Operator qualification matrix: each covered task, each individual, qualification method and expiry (3.12)	14 days before the first covered task	Owner approval
001-08	Drug and alcohol plan under 49 CFR 199, with evidence of consortium enrollment	14 days before mobilization	Owner approval

No.	Submittal	Timing	Action
001-09	Critical lift plans (3.10)	14 days before each lift	Owner approval, EOR review
001-10	Weekly progress report: progress, look-ahead, RFI, MOC and NCR logs, hold points released, HSE statistics	Weekly	Information
001-11	As-built redline sets (3.09)	Weekly review on site; complete set at mechanical completion	Owner and EOR review
001-12	Calibration register for all measuring and test equipment	Before first use, updated monthly	Owner review
001-13	Material receiving and storage plan, including receiving inspection of Owner-furnished material	14 days before the first delivery	Owner approval
001-14	Temporary facilities plan: laydown, office, sanitation, parking, fueling and waste	14 days before mobilization	Owner approval

B. Review periods shall be 10 working days for the Owner and 10 working days for the EOR, running concurrently where both review. Submittals that involve the receiving pipeline operator shall allow 15 working days (HOLD H-01).

C. Submittals shall be returned with one of four codes: 1, accepted, proceed; 2, accepted with comments, proceed and incorporate the comments; 3, revise and resubmit, do not proceed; 4, for information only. Review shall not relieve the Contractor of any requirement of the contract.

1.05 QUALITY ASSURANCE

A. The Contractor's quality control organization shall be independent of production. The quality control manager shall have at least 10 years of experience in pipeline or station construction.

B. The project quality plan (submittal 001-02) shall include the quality control organization; the inspection and test procedures for each section; forms keyed to SPC-SPC-019; control of measuring and test equipment, with calibration traceable to the National Institute of Standards and Technology at the manufacturer's interval or 12 months, whichever is shorter; nonconformance and corrective action; document and records control under SPC-SPC-020; and internal audits at 25 %, 50 % and 90 % completion.

C. The hold point system of 3.04 applies to every section.

1.06 MEASUREMENT AND PAYMENT

A. Pay items for general requirements are listed in Table 1-2. Work in this section that is not listed is incidental to the pay items of the section governing the work.

Table 1-2: General Pay Items

Pay item	Unit	Includes	Excludes
01.01 Mobilization and demobilization	Lump sum	Moving personnel, equipment and temporary facilities to and from the site. Paid 50 % at mobilization and 50 % at demobilization with site restoration accepted; capped at 5 % of the total bid	Remobilization caused by the Contractor
01.02 Bonds and insurance	Lump sum	Performance and payment bonds and the insurance the contract requires, paid on evidence	
01.03 Supervision, field office, quality and HSE programs	Lump sum	Management, quality control and HSE staff, office, sanitation, communications, the calibration program and the drug and alcohol program; paid monthly pro rata over the planned duration	Owner inspection staff
01.04 Construction survey and staking	Lump sum	Layout, control, as-built survey of buried facilities and the final survey file	Owner benchmarks
01.05 Construction records, as-builts and turnover	Lump sum	Redlines, weld maps, pipe tallies and the turnover dossier of SPC-SPC-020; paid in full on acceptance of the turnover	
01.06 Force-account extra work	Crew-day	Crew-day rates in the bid form for Owner-directed extra work authorized in writing before it starts	Work caused by Contractor error

PART 2 PRODUCTS

2.01 GENERAL

- A. All permanent material shall be new, traceable to material test reports or certificates of conformance as the governing section requires, and marked to its product standard.
- B. Piping materials shall conform to PIP-SPC-001, and other materials to the section governing them. A substitution shall require a management of change under 3.06.
- C. No material without complete identification (heat number, grade, size and rating) shall be installed in pressure service. Unidentified material shall be quarantined and reported by nonconformance report.

2.02 OWNER-FURNISHED MATERIAL

- A. The Owner will furnish the items listed in CON-RPT-002. For that material the Contractor shall:
 1. Receive, off-load and check each shipment against the packing list and purchase order within 2 working days of delivery, and record shortages, damage and missing documents on the Owner's receiving report QF-01-02.
 2. Inspect for shipping damage, coating damage (holiday testing coated pipe under SPC-SPC-009), end and flange-face protectors, and preservation status.

3. Store the material to the vendor's preservation instructions: off the ground on dunnage at least 4 in high; coated pipe on sand-filled berms or padded skids, stacked no higher than the pipe coater's stated limit for the coating and wall thickness; valves closed with end covers fitted; electrical and instrument items indoors or in weatherproof containers; and with desiccant or heaters where the vendor requires them.
4. Keep the Owner's preservation log weekly on QF-01-03. Damage that occurs after receipt shall be repaired or replaced at the Contractor's cost.

2.03 CONTRACTOR-FURNISHED MATERIAL

- A. The Contractor shall furnish all material not on the Owner-furnished list of CON-RPT-002, inspect it on receipt, and keep its material test reports and certificates in the records system from receipt under SPC-SPC-020.
- B. Alloy materials (316 stainless tubing and fittings, and the stainless vent piping) shall be positively identified by positive material identification on a 10 % sample of each lot, and on every pressure-boundary alloy fitting, because a carbon steel or wrong-grade component in stainless service is not visible by inspection.

PART 3 EXECUTION

3.01 ORDER OF PRECEDENCE

- A. Where documents conflict, the following order shall govern, highest first:
 1. Applicable federal, state and local regulation, including 49 CFR 192, 165:20, OSHA and the permits in REG-RPT-002.
 2. The construction contract and its special conditions.
 3. Approved changes and field change orders, the latest date governing.
 4. GEN-RPT-002, Design Decisions Register, then GEN-DB-001, Basis of Design.
 5. The sections of Volume 8, a particular section governing over this general section.
 6. IFC drawings. P&IDs govern process connectivity and tags; isometrics and general arrangement drawings govern routing; figured dimensions govern over scaled dimensions; large-scale details govern over small-scale.
 7. Lists and datasheets, including MEC-LST-001, PIP-SPC-001 and INS-LST-001, Instrument Index.
 8. Vendor drawings and instructions, which govern the installation of vendor equipment where they do not conflict with items 1 to 7.
 9. Referenced industry codes and standards.
- B. The Contractor shall raise every conflict by RFI and shall not resolve a conflict by choosing the less costly option. Where two requirements address the same item, the more stringent shall apply unless the EOR rules otherwise in writing.

3.02 COMMUNICATION

- A. All contractual and technical correspondence shall pass between the Contractor and the Owner's Representative, numbered and logged. A verbal instruction shall not be valid until confirmed in writing within 24 hours.
- B. The EOR shall communicate with the Contractor through the Owner's Representative, who shall be copied on every RFI response and change.
- C. The Contractor shall not communicate directly with the receiving pipeline operator except in immediate danger to life, property or the trunkline; to meet OKIE811 one-call obligations; or at tie-in and hot tap coordination meetings chaired by the Owner. Any direct contact shall be reported to the Owner's Representative within 1 hour.
- D. Meetings shall include a daily toolbox and coordination meeting of about 15 minutes, a weekly progress meeting (Owner, Contractor and, as needed, the EOR), and interface meetings with the receiving pipeline operator at 60, 30 and 7 days before the hot tap and tie-in and on the day before each (SPC-SPC-012).

3.03 INTERFACE WITH THE RECEIVING PIPELINE OPERATOR

- A. Work within the right-of-way, crossing it with equipment, or excavating within 25 ft of the trunkline shall require the crossing and encroachment agreement obtained by the Owner (REG-RPT-002), and the receiving pipeline operator's representative shall be on site during the work (HOLD H-04).
- B. Mechanized excavation shall not be used within the tolerance zone of the trunkline, which under the Underground Facilities Damage Prevention Act extends 24 in horizontally from each side of the marked facility, or within any wider zone the receiving pipeline operator requires; the wider zone shall govern. Excavation in the zone shall be by hand or vacuum only.
- C. No crane outrigger, crane mat, stockpile or heavy equipment shall be placed over the trunkline without the receiving pipeline operator's written approval and engineered crossing protection.
- D. Activities of the receiving pipeline operator that interface with the Contractor's work (hot tap, tap valve installation, gas-in witness, meter verification witness and overpressure shutdown system witness) are listed as W-party points in SPC-SPC-019. The Contractor shall give 72 hours' notice through the Owner's Representative, or the longer period in the Interconnect and Operating Agreement (HOLD H-01).
- E. Standby time caused by the receiving pipeline operator shall be paid under pay item 12.02 only where the Contractor gave the required notice and was ready to proceed.

3.04 HOLD POINT SYSTEM

- A. The hold, witness, review and surveillance points of every section are compiled in SPC-SPC-019. Party codes are C Contractor, O Owner, E EOR and W receiving pipeline operator.
- B. The Contractor shall notify the Owner's Inspector in writing, by e-mail to the Owner's notification list, at least 48 hours before a witness point, 72 hours before an activity involving the receiving

pipeline operator (tie-in, gas-in, meter verification, overpressure shutdown system witness) and 7 days before a hydrostatic test. The notice shall give the point ID, location and time, and carry a ready-for-inspection statement signed by the Contractor's quality control inspector.

- C. The Contractor shall complete and record its own inspection before calling a hold or witness point. A point called before the work is ready is a failed call; the second and later failed calls for the same item shall be back-charged at the Owner's inspection rate.
- D. A hold shall be released by signature of every party marked H on the ITP record form or its electronic equivalent. A hold released verbally shall be confirmed in writing within 24 hours.
- E. Work that proceeds past an unreleased hold shall be exposed, removed or retested at the Contractor's cost as the Owner directs.

3.05 REQUESTS FOR INFORMATION

- A. Each RFI shall be submitted on form QF-01-05, one question per RFI, with the drawing or specification reference, a proposed resolution, and the date by which the answer is needed to avoid schedule impact.
- B. The Owner's Representative will target the response times in Table 3-1 from receipt.

Table 3-1: RFI Priorities and Response Targets

Priority	Definition	Response target
P1, urgent	Work stopped, or a safety issue	1 working day; verbal the same day, written within 24 hours
P2, high	Affects work within 10 working days	3 working days
P3, normal	All others	7 working days

- C. An RFI response that changes scope, cost, schedule or any IFC document is not authority to proceed; it shall initiate a change under 3.06. The RFI log, with status, age and owner, shall be part of the weekly report.

3.06 MANAGEMENT OF CHANGE FOR FIELD CHANGES

- A. Any change to IFC drawings, specifications, material, routing, supports, tagging or procedures shall be approved before the change is built, except emergency action to protect life or property, which shall be documented within 24 hours.
- B. Changes shall be classified and approved as set out in Table 3-2. Where the class is disputed, the EOR shall assign it and the higher class shall govern.

Table 3-2: Change Classes and Approval

Class	Scope, with examples	Approval before work	Records
1, minor like-for-like	Pipe support moved less than 12 in with no change of type; conduit rerouted in an unclassified area; an equivalent Contractor-furnished brand of the same standard, grade and rating	Owner's Representative	Redline and change form
2, engineering	Any change to piping routing or support type; material substitution of grade, rating or schedule; changes to foundations, grading or drainage; changes to hazardous-area wiring methods, NDE method or coating system	EOR and Owner's Representative	Change form, EOR-marked drawing, revised calculations as needed
3, safety, regulatory or interface	Anything affecting MAOP, test pressure, relief, the overpressure shutdown system or other safety instrumented functions, ESD, area classification, gas detection, vent and blowdown, measurement (meter run geometry, sample probe location), the interface with the receiving pipeline operator, or permit conditions	EOR, Owner's Representative and Owner process safety; the receiving pipeline operator where the interface or measurement is affected (HOLD H-01)	Change form, hazard review (what-if or an update to SAF-RPT-001, Preliminary HAZOP Report), revised IFC issue, pre-startup safety review item

C. The Contractor shall initiate each change on form QF-01-06 with a description, the reason, the affected documents, and the cost and schedule impact. Approved changes shall be shown on the as-built redlines with the change number and shall be closed only when the redline and records are complete.

3.07 DEVIATIONS AND NONCONFORMANCE

- A. A deviation request, being a planned departure before the work, shall follow the change process of 3.06.
- B. A nonconformance, being a departure discovered after the fact, shall be recorded on form QF-01-07 within 24 hours by whoever discovers it. The Contractor shall propose a disposition: rework to conform, repair, replace, use as is, or reject. Use-as-is and repair dispositions of pressure-boundary, structural or safety items shall require EOR approval.
- C. Nonconforming items shall be tagged in red "HOLD -NCR" with the report number, and segregated where practical.
- D. A nonconformance shall be closed only with evidence (re-inspection or re-test) and Owner sign-off. An open nonconformance on a system shall block mechanical completion of that system.
- E. A root cause analysis shall be made for three or more nonconformances of the same type, and for any weld repair rate above the limit in SPC-SPC-007.

3.08 DOCUMENT CONTROL

- A. The Contractor shall keep a controlled set of IFC documents on site. Superseded documents shall be stamped "SUPERSEDED" and removed from the field within 24 hours of a new issue.
- B. Every document and drawing shall be identified by number, revision and date, and the Contractor shall keep a transmittal log.
- C. Only IFC documents shall be used for construction.
- D. Electronic records shall be kept in a structure that maps to SPC-SPC-020 and shall be backed up daily.

3.09 AS-BUILT REDLINES

- A. The Contractor shall keep one master redline set on site, updated by the end of the next working day for every change, including approved changes, RFI resolutions, field routing, buried piping locations and depths, and foreign crossings.
- B. Redlines shall use red for additions, green for deletions and blue for notes. Each change shall be initialed, dated and referenced to its change, RFI or nonconformance number.
- C. Buried facilities (pipe, conduit, cable, ground grid, anodes and test stations) shall be surveyed before backfill to within 0.1 ft horizontally and 0.1 ft in top-of-pipe elevation, at every change of direction, fitting, buried weld and crossing, and at no more than 50 ft spacing, in NAD83 State Plane South (US survey feet) and NAVD88.
- D. The weld map and pipe tally of SPC-SPC-020 shall form part of the redline set for all pressure piping.
- E. A complete, signed redline set shall be a condition of mechanical completion (HP-01-05).

3.10 CRITICAL LIFTS

- A. A lift is critical if any of the following applies:
 - 1. The load exceeds 75 % of the crane's rated capacity at the planned radius and configuration.
 - 2. The load exceeds 20,000 lb.
 - 3. The lift uses two or more cranes.
 - 4. Any part of the crane, load or rigging passes within 50 ft horizontally of live gas piping or the trunkline, or over live gas piping.
 - 5. The lift is of H-101, V-101, SK-110 (or any part of it), PR-101, B-101 or B-102, whatever its weight.
 - 6. Personnel are lifted in a crane-suspended platform.
 - 7. The crane works within the minimum clearance to overhead power lines of 29 CFR 1926.1408.

- B. A critical lift shall have a written lift plan prepared by a qualified person, checked by a second qualified person, consistent with CON-CAL-001, and approved under submittal 001-09. The plan shall state the load weight (vendor-certified, HOLD H-15), rigging weight, crane configuration and certified load chart, radius, utilization, outrigger reactions, ground bearing and mats, rigging design, exclusion zone, weather limits (wind no higher than the manufacturer's limit and no higher than 20 mph sustained unless the plan allows otherwise), communication, and the pre-lift meeting sign-in.
- C. The crane positions for the three heaviest lifts are crane pad A at plot coordinates (68, 69) for V-101 and SK-110 and crane pad B at (192, 172) for H-101, as set in CON-CAL-001. A different position shall require a revised lift plan.
- D. Cranes shall have annual and frequent inspections under ASME B30.5, and operators shall be certified under 29 CFR 1926.1427. The Contractor's lift engineer shall verify ground conditions against the geotechnical report (HOLD H-07). Riggers shall be qualified under 29 CFR 1926.1404(r) and signal persons under 29 CFR 1926.1428.

3.11 WORKING HOURS AND SITE RULES

- A. Normal working hours are 07:00 to 19:00, Monday to Saturday. Night work, Sunday work, and work on live gas outside daylight hours shall require Owner approval 48 hours in advance, and the approval of the receiving pipeline operator for interface work.
- B. Hot work, excavation, confined space entry, energy isolation, and work on or near live gas shall require permits under the Owner's permit-to-work system (CON-RPT-003).
- C. Firearms, alcohol and drugs are prohibited on site. Smoking shall be allowed only in designated areas more than 100 ft from gas-containing equipment after gas-in, and more than 50 ft from fuel storage at all times.
- D. The speed limit shall be 10 mph inside the fence and 20 mph on the access road.
- E. The Contractor shall clean the site daily and segregate waste (general, scrap steel, coating and paint waste, hazardous waste) for disposal at licensed facilities, with manifests where required.

3.12 OPERATOR QUALIFICATION AND PERSONNEL

- A. Individuals who perform covered tasks under 49 CFR 192 Subpart N shall be qualified under the Owner's operator qualification plan, or an equivalent the Owner accepts, before performing the task. Covered tasks on this project include welding and weld inspection on pipeline facilities, coating application and inspection, backfilling, pressure testing, purging, tapping, valve maintenance, cathodic protection installation and measurement, and locating and excavating near pipelines. A non-qualified individual may perform a covered task only under the direct observation of a qualified individual where the Owner's plan permits it for that task. The covered task list is in CON-RPT-004 and the Contractor's matrix (submittal 001-07).
- B. Personnel performing covered functions shall be enrolled in a drug and alcohol program under 49 CFR 199.

C. Welders shall be qualified under SPC-SPC-007, NDE personnel under SPC-SPC-008, and coating applicators under SPC-SPC-009.

D. The Owner may remove any individual from the site for unsafe or unqualified work.

3.13 SURVEY CONTROL

A. The Owner will provide two benchmarks and a project control baseline (HOLD H-02). The Contractor shall establish all other control, protect the monuments, and re-establish damaged monuments at its cost, under pay item 01.04.

3.14 PROTECTION OF EXISTING FACILITIES

A. Before any ground disturbance, the Contractor shall submit an OKIE811 locate request and confirm every response, including those of the receiving pipeline operator, the electric cooperative and telecommunications owners (SPC-SPC-002).

B. Damage to an existing facility shall be reported at once to its owner and to the Owner's Representative. If gas is released, the Contractor shall stop work, evacuate upwind, eliminate ignition sources, and call 911 and the facility owner's emergency number.

3.15 OPEN HOLD ITEMS AFFECTING CONSTRUCTION

A. The HOLD items of GEN-DB-001 and GEN-RPT-002 remain open until the Owner releases them in writing. The Contractor shall not proceed with work that depends on an open HOLD. Table 3-3 lists the items that most directly affect construction.

Table 3-3: Open HOLD Items Affecting Construction

HOLD	Item	Activities that wait for release
H-17	Construction stormwater and hydrotest discharge permitting authority: EPA Region 6 Construction General Permit or OKR10	Notice of intent, SWPPP certification, ground disturbance, hydrotest water discharge
H-18	Regulatory classification of the station and the receiving line: transmission or Type A, B or C gathering	None directly; may add rupture-mitigation valve and control room management requirements by change
H-19	Water Resources Board registration of the cathodic protection deep anode well	Drilling of the deep anode well
H-20	Liquids production rate at V-101, which sets the T-101 throughput and its 350 bbl/yr enforceable limit	None for construction; commissioning records only

3.16 FIELD QUALITY CONTROL

A. The hold and witness points of this section are listed in Table 3-4.

Table 3-4: Hold and Witness Points

ID	Activity	C	O	E	W	Record
HP-01-01	Kickoff meeting; quality plan, ITP and HSE plan approved before mobilization	P	H	R	-	QF-01-01 minutes; submittals 001-02 to 001-04
HP-01-02	Operator qualification matrix and drug and alcohol evidence accepted before the first covered task	P	H	-	-	Submittals 001-07, 001-08
HP-01-03	Permits in place before ground disturbance: construction stormwater coverage under the authority set by HOLD H-17, county permit, crossing and encroachment agreement	P	H	-	R	QF-01-04 permit checklist
HP-01-04	Critical lift plan approved and pre-lift meeting held	P	H	R	S	Lift plan; QF-01-08 pre-lift checklist
HP-01-05	As-built redline set complete and signed before mechanical completion	P	H	R	-	QF-01-09 redline acceptance
WP-01-06	Receiving inspection of Owner-furnished major equipment	P	W	-	-	QF-01-02 receiving report
HP-01-07	Class 2 and Class 3 changes approved before the changed work is built	P	H	H	H	QF-01-06 change form (W only for Class 3 interface changes)
HP-01-08	Use-as-is or repair disposition of a nonconformance on a pressure, structural or safety item	P	H	H	-	QF-01-07

3.17 ACCEPTANCE

A. The general requirements are met when the criteria in Table 3-5 are satisfied.

Table 3-5: Acceptance Criteria

Parameter	Criterion	Method
Submittals	Every required submittal accepted (code 1 or 2) before the related work starts	Submittal log
Hold points	Every hold released in writing before the work passes it	ITP records
Changes	No change built without an approved change form	Audit of redlines against the change log
Nonconformances	All closed or dispositioned before mechanical completion of the affected system	Nonconformance log
Operator qualification	Every individual performing a covered task listed and current in the matrix	Weekly field audit

Parameter	Criterion	Method
Buried as-built survey	Within 0.1 ft horizontally and vertically; points at every fitting, buried weld and crossing and at 50 ft maximum spacing	Survey file review
Calibration	All measuring and test equipment in calibration on the date of use	Calibration register

END OF SECTION

