

OWNER

Contractor Scope of Work and Bid Form Structure



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ISSUE SUMMARY AND APPROVAL

This page records each issue of CON-RPT-002. The preparer, reviewer and approver sign for each revision.

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1. INTRODUCTION

1.1. PURPOSE

This report defines the construction Contractor's scope of work for the , the split between Owner-furnished material (OFM) and Contractor-furnished material (CFM), the work packages, and the schedule of values and unit-price items that make up the bid form. It also sets the rules for measurement, payment, retention and bid evaluation, so that all bidders price the same work in the same structure and the Owner can compare the bids directly.

The pay item numbers are the same as those in the measurement and payment articles of the Volume 8 specifications, SPC-SPC-001 to SPC-SPC-020. Where a specification and this report differ on payment, the specification governs what an item includes and this report governs the layout of the bid form; a bidder who finds a conflict shall raise it by request for information during bidding.

1.2. SCOPE

The Contractor will furnish all labor, supervision, construction equipment, tools, consumables, CFM, temporary facilities, testing and records needed to build, test and hand over the station and the outlet lateral as shown and specified. The work comprises:

1. Mobilization, field office, survey and staking, and the installation and maintenance of stormwater controls. The Owner will hold the construction stormwater permit coverage, under the authority to be determined (HOLD H-17); the Contractor becomes a co-operator if the Owner so elects. CIV-RPT-002, Stormwater Pollution Prevention Plan, is written to satisfy either permit.
2. Clearing, earthwork, subgrade preparation, drainage, the access road, internal roads and yard surfacing, fence and gates.
3. Cast-in-place foundations, the T-101 containment, grout and anchor bolts.
4. Structural steel: the meter skid canopy where not vendor-supplied, pipe supports and platforms.
5. Receiving, inspecting, storing, protecting and installing all OFM, and setting all mechanical equipment, including the critical lifts of CON-CAL-001.
6. Station piping above and below grade, and the outlet lateral from IJ-102 to the outlet flange of the tap valve: fabrication, welding, nondestructive examination (NDE), coating, painting, bolt-up and flange management.
7. Hydrostatic testing, dewatering and drying, including test water supply and disposal.
8. The connection to the tap valve, nitrogen purge and gas-in support under SPC-SPC-012.
9. Electrical installation in hazardous locations, grounding, lightning protection and lighting, and the pad, conduit and grounding for transformer XF-101 to the cooperative's standards.
10. Instrument installation, tubing, analyzer sample systems, calibration and loop checks.
11. Cathodic protection installation, energizing and commissioning survey.
12. Setting and connecting buildings B-101 and B-102 and generator G-101.

13. Pre-commissioning, mechanical completion, and support of commissioning, startup and the performance test.
14. Construction records, weld maps, material traceability, as-built records and turnover under SPC-SPC-020.
15. Demobilization and restoration.

1.3. EXCLUSIONS

Table 1-1 lists the work that is not in the Contractor's scope and who performs it.

Table 1-1: Work by Others

Item	By
Upstream 12-inch lateral up to IJ-101	Owner, separate project
Hot tap fitting, tap valve, hot tap, remote terminal unit and remote shutoff on the trunkline	(the receiving pipeline operator)
Utility line extension, transformer XF-101, revenue meter	Electric cooperative (HOLD H-10)
Procurement of OFM, vendor shop tests, factory acceptance tests and meter flow calibration	Owner and vendors
Vendor field service representatives for OFM	Owner; the Contractor coordinates and provides labor and facilities
Geotechnical investigation, boundary survey, environmental surveys	Owner
Permits held by the Owner (REG-RPT-002)	Owner
SCADA configuration, safety controller programming, flow computer configuration	Owner or its system integrator
Owner's inspection and third-party NDE audit	Owner
Permanent telecommunications carrier services	Owner



2. MATERIAL RESPONSIBILITY

2.1. OWNER-FURNISHED MATERIAL

The Owner will buy the engineered equipment, the line pipe, the large valves and the tagged instruments, listed in Table 2-1, because these items have the longest lead times (CON-LST-001) and must be ordered before a construction contract is awarded. The Owner will deliver them to the site, or to a yard named at award. The Contractor shall inspect each delivery against the packing list and for damage within 48 hours, report discrepancies on the Owner's over, short and damaged form, store the items to the vendor's instructions (including space heaters and preservation for electrical and instrument items) and install them.

Table 2-1: Owner-Furnished Material

Group	Items	Reference
Line pipe	NPS 6 to 16, API 5L X52 PSL2, coated with fusion-bonded epoxy, with abrasion-resistant overlay where required	PIP-SPC-001; MEC-LST-001
Process equipment	V-101 filter separator (42 in ID, post-weld heat treated, shop tested at 2,225 psig); H-101 line heater, 6.0 MMBtu/h, with SIL 2 burner management and Class 900 coil nozzles; PR-101 pig receiver; T-101 tank, 9 ft 6 in OD x 8 ft, with PVRV-193, FA-193, emergency vent EV-193 and LT-191; VS-101 vent stack in stainless steel with helical strakes; FG-101 fuel gas skid; E-161 electric fuel gas preheater, 5 kW, explosion-proof	MEC-LST-002; PRO-DS-012
Measurement	SK-110 complete: meter tubes, ultrasonic meters FE-111 and FE-121, flow conditioners, motor-operated valves MOV-111, 112, 115, 121 and 122, skid steel, and the canopy where vendor-supplied	MEA-CAL-001; MEA-DS-001; MEC-DS-009
Analyzer shelter	B-101 with AT-141 to AT-144, SMP-146, SP-141 and sample conditioning	MEA-DS-003 to MEA-DS-006
Control building	B-102 with remote terminal unit, safety controller, flow computer FQI-110, 24 V dc UPS, 120 V ac UPS (1.5 kVA, 8 h), panelboards and telecommunications equipment	INS-DWG-001; ELE-DWG-001
Power	G-101 with automatic transfer switch	ELE-DWG-001
Valves	API 6D valves NPS 2 and larger: SDV-101, SDV-102 (full stroke 4 s or less, partial-stroke testable) and SDV-103 with electro-hydraulic actuators; SDV-106; SDV-141; the equalizing bypass valves around SDV-101, 102 and 103; CKV-171 axial check; FCV-131 and FCV-132; BDV-102 and BDV-181 to 183; hand valves NPS 2 and larger with gear operators	MEC-LST-003
Insulating joints	IJ-101, IJ-102	MEC-DS-008

Group	Items	Reference
Relief devices	PSV-101, PSV-157, PSV-161, TSV-136	PRO-CAL-007
Instruments	All tagged instruments in the instrument index	INS-LST-001

2.2. CONTRACTOR-FURNISHED MATERIAL

The Contractor shall furnish the bulk materials in Table 2-2. These are commodities that the Contractor buys routinely and can match to its fabrication and installation sequence.

Table 2-2: Contractor-Furnished Material

Group	Items	Governing section
Piping bulks	Butt-weld fittings (MSS SP-75 WPHY-52); forged fittings and flanges (ASTM A105N with impact testing at -20 °F), including the Class 900 companion flanges and bolting at the H-101 coil; gaskets (Class 150: flexible graphite with 316 tanged insert); stud bolts and nuts; small-bore pipe and valves NPS 1-1/2 and smaller	PIP-SPC-001; SPC-SPC-006
Stainless vent piping	Dual-certified 304/304L or 316/316L Class 150 pipe, fittings, flanges and valves for the vent header and its branches downstream of the restriction orifices and relief valves; stainless-only tools and filler metals	PIP-SPC-001; SPC-SPC-006 to SPC-SPC-008
Instrument bulks	Tubing, tube fittings, instrument valves and manifolds, tray and supports	SPC-SPC-014
Supports and steel	Pipe supports, structural steel other than skid steel, grating, handrail	SPC-SPC-004
Coating and paint	Field joint coating and repair materials, paint system, soil-to-air wrap	SPC-SPC-009; SPC-SPC-010
Cathodic protection	Anodes, rectifier, deep anode well materials, test stations, cable and bonds	SPC-SPC-015; CP-CAL-001
Electrical bulks	Cable, conduit, seals, fittings, junction boxes, lighting, grounding and lightning materials	SPC-SPC-013
Civil	Concrete, reinforcement, anchor bolts, grout, aggregate, geotextile, culverts, fence and gates, seed and erosion control	SPC-SPC-002, 003 and 005
Testing	Test water, test heads, pumps, calibrated gauges and recorders, nitrogen, drying equipment	SPC-SPC-011; SPC-SPC-012
Temporary	Temporary facilities, utilities, sanitation, security, laydown surfacing	CON-RPT-001

The Owner will decide the boundary for any item not listed at the pre-bid meeting, and bidders shall state any assumption in their clarifications.



3. WORK PACKAGES

The work is divided into the packages in Table 3-1, one per specification group, so that progress, payment and inspection can be tracked against the same structure. Welding under SPC-SPC-007 is paid within the piping items and has no pay item of its own, because a weld has no value until the spool it joins is installed. Inspection and test plan activities are likewise paid within the items they inspect.

Table 3-1: Work Packages

Package	Title	Pay items	Specifications
WP-01	General requirements	01.01 to 01.06	SPC-001, SPC-020
WP-02	Site preparation and earthwork	02.01 to 02.08	SPC-002
WP-03	Concrete	03.01 to 03.04	SPC-003
WP-04	Structural steel	04.01 to 04.03	SPC-004
WP-05	Surfacing, roads and fencing	05.01 to 05.06	SPC-005
WP-06	Piping and welding	06.01 to 06.05	SPC-006, SPC-007
WP-08	Nondestructive examination	08.01, 08.02	SPC-008
WP-09	Buried coating	09.01, 09.02	SPC-009
WP-10	Painting	10.01	SPC-010
WP-11	Hydrostatic testing	11.01, 11.02	SPC-011
WP-12	Tie-in and purging	12.01, 12.02	SPC-012
WP-13	Electrical	13.01 to 13.03	SPC-013
WP-14	Instrumentation	14.01, 14.02	SPC-014
WP-15	Cathodic protection	15.01, 15.02	SPC-015
WP-16	Buildings	16.01, 16.02	SPC-016
WP-17	Mechanical equipment setting	17.01 to 17.06	SPC-017
WP-18	Commissioning	18.01, 18.02	SPC-018, SPC-019

4. SCHEDULE OF VALUES

4.1. HOW BIDDERS COMPLETE IT

Bidders shall enter a unit rate and amount for every item. Quantities are taken from the discipline material take-offs (civil, mechanical and structural) and the estimate quantity take-off; quantities marked with a HOLD depend on that open item. Lump-sum items have a quantity of one. Quantities for unit-price items are for bid evaluation only and are not guaranteed. Table 4-1 to Table 4-6 form the bid form.

4.2. GENERAL, SITE AND CONCRETE

Table 4-1: Schedule of Values, General Requirements

Item	Description	Unit	Quantity	Payment
01.01	Mobilization and demobilization	LS	1	Capped at 5 % of the total bid; 60 % on mobilization, 40 % on demobilization
01.02	Bonds and insurance	LS	1	On submission of bonds and certificates
01.03	Supervision, field office, quality and safety programs	LS	1	Monthly, pro rata over the baseline duration
01.04	Construction survey and staking	LS	1	50 % on control and staking; 50 % on delivery of the as-built survey
01.05	Construction records, as-builts and turnover	LS	1	Retained in full until turnover under SPC-SPC-020 is accepted
01.06	Force-account extra work (unit price)	Crew-day	10	Crew rates of Section 5.3, on written Owner instruction only

Table 4-2: Schedule of Values, Site Preparation and Earthwork

Item	Description	Unit	Quantity	Basis and payment
02.01	Clearing and grubbing	Acre	3.0	Tract 2.41 acres (HOLD H-03) plus access road corridor 600 x 40 ft (0.55 acre); measured by survey
02.02	Topsoil strip and stockpile	CY	2,377	CIV-CAL-001 and CIV-DWG-003, 6 in strip; measured by cross sections; 973 CY respread, 1,404 CY spread on the tract
02.03a	Unclassified excavation (pad cut, road undercut, ditches)	CY	2,556	CIV-CAL-001: 1,402 CY common and 1,154 CY ditch excavation; excludes structure and trench excavation
02.03b	Embankment, compacted to 95 % of ASTM D698	CY	3,193	CIV-CAL-001, measured in place; includes 1,699 CY of imported fill
02.04	Undercut and replace unsuitable subgrade (unit price)	CY	500	Allowance (HOLD H-07); only when ordered after proof roll

Item	Description	Unit	Quantity	Basis and payment
02.05	Rock excavation (unit price)	CY	100	Allowance (HOLD H-07); rock as defined in SPC-SPC-002
02.06	Stormwater controls, install, maintain, remove	LS	1	CIV-RPT-002; 50 % installed, 30 % maintenance, 20 % at the Notice of Termination
02.07	Final grading, seeding and restoration	Acre	1.21	Disturbed area outside surfacing (CIV-RPT-002); paid at stabilization
02.08	Lime or cement subgrade stabilization (unit price)	SY	3,000	Allowance (HOLD H-07); where ordered or shown

Table 4-3: Schedule of Values, Concrete

Item	Description	Unit	Quantity	Basis and payment
03.01a to 03.01h	Foundations for V-101, H-101, SK-110, PR-101, FG-101, G-101 and VS-101, and the T-101 containment and loadout pad, each a separate lump sum	LS	8	STR-DWG-001 to STR-DWG-006; each includes excavation, formwork, reinforcement, anchor bolts, concrete, grout and backfill
03.02	Pipe support foundations	Each	152	STR-CAL-002 and MEC-CAL-005: 126 drilled piers (PF-1 16, PF-2 9, PF-3 2, PF-4 8, PF-6 11, PF-7 15, PF-8 65) and 26 combined footings CF-01 to CF-26
03.03a, 03.03b	Building foundations for B-101 and B-102	LS	2	STR-DWG-006
03.04	Drilled pier length adjustment (unit price)	LF	50	Allowance (HOLD H-07); added or deducted length by diameter

4.3. STRUCTURAL, SURFACING AND PIPING

Table 4-4: Schedule of Values, Structural Steel, Surfacing and Fencing

Item	Description	Unit	Quantity	Basis and payment
04.01	Meter skid canopy	LS	1	STR-CAL-003; deleted by change if the skid vendor supplies it
04.02	Pipe supports	Each	207	PIP-DWG-006 and MEC-CAL-005: SR-1 43, SG-1 13, SH-1 18, SS-1 58, SS-2 55, ST-1 16, ST-2 4
04.03	Platforms, stairs, crossovers	LS	1	
05.01	Access road	LF	600	HOLD H-05; includes subgrade, geotextile, aggregate and ditches

Item	Description	Unit	Quantity	Basis and payment
05.02	Internal road and yard surfacing	SY	6,312	CIV-CAL-003 and CIV-DWG-002: internal roads 1,512 SY at 12 in on geotextile; station pad 4,800 SY at 6 in
05.03	Culverts	LF	96	CIV-CAL-002: culvert CUL-1, 36 in corrugated metal pipe under the access road entrance, with two headwalls
05.04	Chain-link fence, 7 ft with three strands of barbed wire	LF	850	Perimeter 900 LF less two 24 ft vehicle gates and two personnel gates
05.05	Gates	Each	4	Two 24 ft double-swing vehicle gates, two personnel gates
05.06	County road driveway approach and cattle guard	LS	1	County permit (HOLD H-05)

Table 4-5: Schedule of Values, Piping, NDE, Coating and Painting

Item	Description	Unit	Quantity	Basis and payment
06.01	Above-grade station piping, including welding, bolt-up and flange management	LS	1	MEC-LST-001; PIP-DWG-001 to 003; paid by the milestones in Table 5-1
06.02	Below-grade station piping, by NPS	LF	NPS 2: 215; NPS 1: 121	Buried fuel gas lines 1051 and 1052 (MEC-LST-001); measured along the centerline in place; includes trench, bedding, lowering in, backfill and markers
06.03	Outlet lateral 12"-G-1042-A6, IJ-102 to the tap valve flange, 0.500 in wall X52 PSL2 with 3R riser bends	LF	96	PIP-DWG-004 (HOLD H-04, final length by survey); includes work in the operator's right-of-way under its supervision and the buried crossing of road R-3
06.04	Foreign line and road crossings	Each	2	Road crossings of line 1042 under road R-3 and line 1051 under road R-6 (PIP-DWG-001 and PIP-DWG-004); no foreign line is known, and any found by the one-call locate is added at this unit rate
06.05	Rock in trench (unit price)	CY	50	Allowance (HOLD H-07); pay width pipe OD plus 24 in, pay depth 6 in below the pipe
08.01	NDE of all welds to SPC-SPC-008	LS	1	Includes radiography or automated ultrasonic testing, reports and re-examination of repairs
08.02	Additional NDE ordered by the Owner beyond the specified extent (unit price)	Each	20	Allowance; repairs of rejected welds are at the Contractor's cost
09.01	Field joint coating, buried, by NPS	Each	34	One per buried girth weld on lines 1042, 1051 and 1052 (mechanical material take-off); includes blasting, coating, holiday testing and repairs

Item	Description	Unit	Quantity	Basis and payment
10.01	Above-grade painting and touch-up	LS	1	70 % on application; 30 % on film thickness and final acceptance

4.4. TESTING, ELECTRICAL AND EQUIPMENT

Table 4-6: Schedule of Values, Testing, Tie-in, Electrical, Instruments and Cathodic Protection

Item	Description	Unit	Quantity	Basis and payment
11.01	Hydrostatic testing, dewatering and drying, per section TS-01A, TS-01B, TS-02, TS-03, TS-04 and TS-05, with field closure spools	LS each	6	MEC-CAL-003; vendor pre-tested units are excluded; paid per section on EOR acceptance of the test and drying records
11.02	Test water supply, treatment and disposal	LS	1	REG-RPT-002; includes sampling and analysis
12.01	Connection to the tap valve, nitrogen purge and gas-in	LS	1	SPC-SPC-012; paid on successful gas-in
12.02	Standby crew during the hot tap or delay caused by the operator (unit price)	Hour	40	Allowance; only when ordered
13.01	Power, control and hazardous-location electrical installation	LS	1	ELE-LST-001; ELE-DWG-001
13.02	Grounding and lightning protection	LS	1	ELE-CAL-005, ELE-CAL-006, ELE-DWG-004; paid on accepted resistance tests
13.03	Lighting	LS	1	ELE-CAL-007; ELE-DWG-005
14.01	Instrument installation, tubing and supports	LS	1	INS-LST-001
14.02	Calibration and loop checks	LS	1	INS-LST-002; paid on signed loop sheets
15.01	Cathodic protection installation	LS	1	CP-CAL-001
15.02	Cathodic protection energizing and survey	LS	1	SPC-SPC-015; paid on the accepted survey report

Table 4-7: Schedule of Values, Buildings, Equipment Setting and Commissioning

Item	Description	Unit	Quantity	Basis and payment
16.01	Set and connect B-101	LS	1	
16.02	Set and connect B-102	LS	1	
17.01	Set V-101	LS	1	CON-CAL-001; includes crane, mats, rigging, leveling and grouting

Owner

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Item	Description	Unit	Quantity	Basis and payment
17.02	Set H-101	LS	1	[REDACTED] CON-CAL-001
17.03	Set SK-110	LS	1	[REDACTED] CON-CAL-001
17.04	Set T-101	LS	1	
17.05	Set PR-101	LS	1	
17.06	Set FG-101 with E-161, G-101, VS-101 with its base drain valve and collection pan; XF-101 pad	LS	1	
18.01	Pre-commissioning and mechanical completion	LS	1	[REDACTED] SPC-SPC-018; paid on the mechanical completion certificate
18.02	Commissioning, startup and performance test support	LS	1	[REDACTED] SPC-SPC-018; paid on the handover certificate



5. MEASUREMENT AND PAYMENT

5.1. GENERAL RULES

Payment will be monthly against the approved schedule of values, on progress measured jointly by the Contractor and the Owner's Representative on the 25th of each month. The Contractor shall submit a detailed breakdown of each lump sum within 14 days of award, weighted to the activities of the baseline schedule; the Owner may reject a breakdown that is front-loaded or does not reflect the value of the work.

Unit-price items will be paid on the quantities installed and accepted, at the bid rate, without adjustment for variations up to ± 25 % of the estimated quantity. Beyond that range either party may request a new rate for the excess or shortfall, supported by cost records. Each item includes all labor, equipment, CFM, consumables, testing, records and incidentals it needs, unless its specification says otherwise. Work that fails an acceptance criterion is not paid until it is repaired and accepted, and repairs, retests and re-examinations caused by the Contractor are at its cost. CFM delivered and properly stored on site may be paid at 75 % of invoice value against invoices and material test reports, for purchase orders over USD 10,000.

5.2. PIPING MILESTONES

The above-grade piping lump sum (06.01) is paid by the milestones in Table 5-1. The weights put a quarter of the value behind the hydrotest and the flange records, because those are the steps that prove the piping is fit for service.

Table 5-1: Piping Payment Milestones

Milestone	Weight
Spools fabricated, welded and visually accepted	30 %
Spools installed and field welds complete	25 %
NDE accepted and weld maps complete	10 %
Hydrostatic test accepted	15 %
Bolt-up and flange management records complete after reinstatement	10 %
Category A punch items closed at mechanical completion	10 %

5.3. FORCE ACCOUNT

Force-account work (items 01.06 and 12.02) will be paid at the bid crew-day or hourly rates, which include labor burden, small tools, supervision below superintendent, overhead and profit. Bidders shall price four crews: a pipeline crew (foreman, two welders with helpers, an equipment operator with sideboom or excavator, and two laborers), a civil crew, an electrical and instrument crew, and a standby crew. Major equipment outside the crews will be paid at published rental rates plus 10 %. Time sheets shall be signed by the Owner on the day of the work, or the work is not paid.

5.4. RETENTION AND CHANGES

The Owner will retain 10 % of each progress payment until the work is 50 % complete, and then hold retention at 5 % of the contract value while progress is satisfactory, subject to law on retainage (TBV). Item 01.05 is retained in full until turnover is accepted. Retention will be released at final acceptance, less 150 % of the estimated value of any open punch items. All changes are by written change order, and a field change to the design needs management of change and EOR approval under SPC-SPC-001 before it is carried out; work done without them is not paid.



6. EXCLUSIONS AND CLARIFICATIONS

The Contractor's price excludes the work in Table 1-1, delay caused by the receiving pipeline operator beyond the two-week hot tap window of CON-RPT-001 (paid under item 12.02), hazardous material or contamination not identified in the bid documents (a differing site condition), and fees for Owner-held permits.

Bidders may list clarifications and exceptions on a separate sheet; exceptions not listed are not accepted. A clarification that changes the OFM and CFM boundary, the pay item structure, the retention or any hold point is grounds for rejection unless the Owner accepts it in writing before award.



7. BID EVALUATION

Bidders shall submit the data in Table 7-1. The Owner will first evaluate the technical and safety submissions (B-4 to B-12 and B-15) on a pass or fail basis, and will then compare the evaluated price: the schedule of values total, including the unit-price items at their stated quantities and force account at its stated allowances. Technical and safety qualification comes first because a low price from a contractor without meter station and Class 600 experience carries more risk than the price difference.

Table 7-1: Bid Submission Requirements

No.	Submission	Purpose
B-1	Completed schedule of values and unit rates	Price
B-2	Crew-day and hourly force-account rates	Price of changes
B-3	Level 3 baseline schedule consistent with CON-RPT-001, with OFM need dates	Schedule risk
B-4	Resumes of key personnel (CON-RPT-001)	Capability
B-5	Experience: at least three gas meter or compressor stations at Class 600 in the last five years	Capability
B-6	Safety record for three years: experience modification rate (target 1.0 or lower), recordable and lost-time rates, OSHA citations	Safety
B-7	Contractor prequalification service status; drug and alcohol program to 49 CFR 199	Safety and compliance
B-8	Operator qualification program for the covered tasks the Contractor will perform (CON-RPT-003)	Compliance
B-9	Qualified welding procedures to API 1104 and ASME Section IX for the materials and sizes	Technical
B-10	NDE subcontractor, radiation license, automated ultrasonic capability	Technical
B-11	Crane and lift approach to CON-CAL-001, with the proposed crane	Technical
B-12	Subcontractors for electrical, cathodic protection, coating, NDE and survey	Capability
B-13	Bid bond 5 %; performance and payment bonds 100 %	Commercial
B-14	Insurance certificates to the Owner's limits	Commercial
B-15	contractor registration and electrical license	Compliance
B-16	Clarifications and exceptions	Commercial

8. ALTERNATES

Bidders shall price the alternates in Table 8-1. ALT-6 deserves particular note. The base bid assumes that the Owner will take a legally enforceable limit of 350 bbl/yr on the liquids sent to T-101, more than 30 % above the 52 to 260 bbl/yr expected from pigging, which keeps the tank below the 6 tpy VOC threshold of 40 CFR 60 Subpart OOOOb (REG-CAL-001). If the liquids rate at V-101 turns out to exceed the limit (HOLD H-20), the tank will need vapor control, and ALT-6 prices it now so that the Owner can add it without a delay.

Table 8-1: Alternates

Alternate	Description	Pricing
ALT-1	Contractor supplies and installs the meter skid canopy, if the skid vendor does not	Add or deduct to 04.01
ALT-2	Automated ultrasonic testing in place of radiography for NPS 10 and 12 girth welds	Add or deduct to 08.01
ALT-3	Owner buys the MSS SP-75 fittings and flanges early for lead time and transfers them as OFM	Deduct from 06.01
ALT-4	Permanent fence installed at the start of work in place of temporary fencing	Add or deduct
ALT-5	Crushed limestone surfacing to an gradation in place of the specified aggregate, if equivalent under SPC-SPC-005	Add or deduct to 05.02
ALT-6	Vapor control on T-101: enclosed combustor with at least 95 % control and a closed vent system	Add

9. SUMMARY AND NEXT STEPS

This report fixes the structure of the construction bid: 17 work packages, a schedule of values with eight unit-price items for the quantities that depend on ground conditions or Owner instruction, and six alternates. Before the bid package is issued, the Owner and TORUS shall update the quantities to the construction-issue take-offs, confirm the OFM and CFM boundary at the pre-bid meeting, and resolve or price the holds that affect quantity and scope: the lease tract (HOLD H-03), the tap location and lateral length (HOLD H-04), the access road (HOLD H-05), the geotechnical data (HOLD H-07), the utility service (HOLD H-10), the vendor data (HOLD H-15) and the liquids rate at V-101 (HOLD H-20).

