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Rev.	Date	Revision description	Prepared	Reviewed	Approved
A	2026-09-29	Issued for Review			

NOTES

The pre-startup safety review (PSSR) team uses this checklist before gas is first introduced into the station, and again before custody delivery into the receiving pipeline begins. The station is regulated under 49 CFR Part 192, whose requirements are included; the PSSR elements of OSHA 29 CFR 1910.119(i) are followed as good practice.

Each item is marked Y (complete, with the evidence attached), N (open, with an action and an owner in Table 1-10) or NA (not applicable, with the reason). Startup is not authorized while any item is N, unless the PSSR leader and the Owner's operations manager sign an exception in Table 1-10 stating why the item does not affect safe startup and when it will be closed.

The PSSR team comprises the PSSR leader (Owner operations), process safety, instrumentation and safety instrumented systems (SIS), electrical, mechanical and piping, measurement, construction quality, the Owner's field technician, and a representative of the receiving pipeline operator for the interconnect items in Tables 1-5 and 1-7. Names are entered when the team is appointed.

DOCUMENTATION AND HAZARD REVIEW

Table 1-1: Documentation and Design

Item	Check	Reference	Responsible	Status	Initials and date
1	Basis of Design, P&IDs and PFD issued for construction and marked up to as-built	GEN-DB-001; PRO-DWG-101 to 111	Process; Contractor		
2	P&ID walk-down complete; every tag in the instrument index found, installed and tagged in the field	INS-LST-001	Instrumentation; Contractor		
3	Design decisions made after the Basis of Design reconciled and approved by the engineer of record	GEN-RPT-002	Engineer of record		
4	Management of change records complete for all field changes	Owner MOC procedure	Owner		
5	Operating, maintenance and emergency procedures written, reviewed and issued	49 CFR 192.605	Owner operations		
6	Emergency response plan adopted, with all contacts completed	SAF-RPT-005; 49 CFR 192.615	Owner		
7	Public awareness program updated for the new station	49 CFR 192.616	Owner		
8	Control room management plan updated: alarm list, displays, fatigue, handover	49 CFR 192.631	Owner gas control		



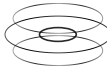
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Table 1-2: Hazard Review Close-Out

Item	Check	Reference	Responsible	Status	Initials and date
9	Every HAZOP recommendation (HZ-01 to HZ-53) closed or formally accepted with its justification	SAF-RPT-001	Process safety		
10	Every LOPA recommendation closed; every required safety instrumented function installed	SAF-RPT-002	Process safety		
11	Siting recommendations SS-01 to SS-08 closed	SAF-RPT-004	Mechanical; Process		
12	Fire and gas actions FG-01 to FG-07 closed	SAF-RPT-003	Instrumentation		
13	Area classification drawing matches the installed equipment ratings (walk-down)	ELE-DWG-002; NFPA 70 Art. 500	Electrical		

MECHANICAL AND ELECTRICAL

Table 1-3: Mechanical Integrity and Construction

Item	Check	Reference	Responsible	Status	Initials and date
14	Hydrostatic test records at 2,160 psig minimum for 8 h, with signed charts and test water disposal records	GEN-DB-001; 49 CFR 192 Subpart J	Contractor; Quality		
15	NDE records: 100 % radiography or automated ultrasonic testing of butt welds; magnetic particle or dye penetrant of fillet and socket welds; repair records	GEN-DB-001; API 1104; ASME B31.8	Quality		
16	Welder and procedure qualifications on file	ASME IX; API 1104	Quality		
17	Material test reports for pipe, fittings, flanges and valves	API 5L; MSS SP-75	Quality		
18	Coating inspection and holiday test records for buried piping	GEN-DB-001	Quality		
19	Manufacturer's data reports and nameplates for V-101, the PR-101 barrel and the H-101 coil	ASME VIII-1	Mechanical		
20	PR-101 closure interlock I-08 and pressure warning device installed and function-tested	ASME VIII-1 UG-35.2	Mechanical		
21	Relief devices PSV-101, PSV-157, PSV-161, PSV-141B and TSV-136 set, tested, sealed and tagged; set pressures match the datasheets	PRO-CAL-007; API 520, 526 and 527	Process; Contractor		
22	PVRV-193, FA-193 and emergency vent EV-193 installed on T-101; containment volume verified	PRO-CAL-007; API 2000; NFPA 30	Mechanical		
23	Restriction orifices RO-181, RO-182, RO-183, RO-172B, RO-102, RO-104 and RO-141A installed with the correct bore stamped	PRO-CAL-007; PRO-CAL-008	Process		
24	Vent system downstream of the restriction orifices in stainless steel as specified; material certificates checked	PRO-CAL-008	Mechanical; Quality		
25	Flange bolt torque records; gaskets to the piping specification	Piping specifications	Contractor		



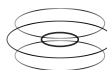
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Item	Check			Reference	Responsible	Status	Initials and date
26	Pipe supports, anchors and small-bore bracing complete			Volume 4 stress screening	Mechanical		
27	Insulating joints IJ-101 and IJ-102 tested for isolation			AMPP SP0169	Cathodic protection		
28	Cathodic protection energized; initial potential survey recorded			49 CFR 192 Subpart I	Cathodic protection		

Table 1-4: Electrical

Item	Check	Reference	Responsible	Status	Initials and date
29	Grounding and bonding resistance tested; lightning protection installed	IEEE 80 and 142; NFPA 780	Electrical		
30	Equipment in classified areas correctly marked; conduit seals poured	NFPA 70 Art. 501	Electrical		
31	UPS 8 h autonomy verified by discharge test or accepted calculation	 GEN-DB-001	Electrical		
32	Standby generator and transfer switch tested (utility failure, transfer, retransfer); generator fuel stays live after an ESD	 GEN-DB-001; interlock I-01	Electrical		
33	Working clearances in B-102 maintained	NFPA 70 110.26	Electrical		
34	Arc-flash labels installed	NFPA 70E	Electrical		

INSTRUMENTATION, SAFETY SYSTEMS AND FIRE AND GAS

Table 1-5: Instrumentation, SIS and Control

Item	Check	Reference	Responsible	Status	Initials and date
35	Calibration records for every transmitter, switch and analyzer in the instrument index	 INS-LST-001;  INS-DS-001 to 014	Instrumentation; Contractor		
36	Loop checks complete for every point in the I/O list (RTU, SIS, flow computer, BMS, receiving pipeline interface)	 INS-LST-002	Instrumentation; Integrator		
37	Alarm and trip setpoints loaded and checked against the schedule; signed print-out on file	 INS-LST-003	Instrumentation		
38	Cause and effect matrix tested end to end, every row, including first-out	 INS-LST-004	Instrumentation; Integrator		
39	Control functions tested: flow control with outlet pressure override, control valve switchover, run switching, heater cascade, separator level control, gas quality shut-in	 INS-RPT-001	Integrator		



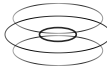
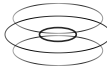
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Item	Check	Reference	Responsible	Status	Initials and date
40	SIS site acceptance test complete; SIS validation signed	IEC 61511-1 Cl. 15; SAF-SRS-001	SIS engineer		
41	Stage 3 functional safety assessment complete before hazards are introduced	IEC 61511-1 Cl. 5.2.6	Independent assessor		
42	Proof test baseline (as-found and as-left) recorded for every safety instrumented function; SDV-102 full stroke measured at 4 s or less	SAF-CAL-001; SAF-SRS-001	SIS engineer		
43	Overpressure shutdown at 1,225 psig (PT-133A/B/C, two-out-of-three) witnessed with the receiving pipeline operator; trip and local key reset demonstrated	49 CFR 192.195 and 192.201	Instrumentation; receiving pipeline operator		
44	SIS bypass management in place; all bypasses removed and key switches in normal	SAF-SRS-001	Owner operations		
45	SIS application program version recorded and backed up; write protection enabled	IEC 61511-1 Cl. 12	SIS engineer		
46	Burner management system tested: purge, trial for ignition, flame failure response 4 s or less, LSL-154, TSHH-155 at 200 F, fuel pressure trips, proof of closure on XV-150A/B	API RP 556; INS-RPT-001	Heater vendor		
47	Remote ESD from SCADA and the receiving pipeline operator's remote shutdown HS-215 tested	GEN-DB-001	Instrumentation; receiving pipeline operator		

Table 1-6: Fire and Gas

Item	Check	Reference	Responsible	Status	Initials and date
48	Gas detectors GD-205, GD-206 and GD-207 calibrated with certified gas; response times recorded	SAF-RPT-003; IEC 60079-29-2	Instrumentation		
49	BE-213 located per SAF-DWG-001 and tested with a test lamp at the fuel train; burner flame not visible through the sight ports	SAF-RPT-003	Instrumentation		
50	XS-212 smoke detector sensitivity and HVAC shutdown tested	NFPA 72	Instrumentation; Electrical		
51	B-101 exhaust airflow measured at 192 cfm or more; FSL-208 trips on loss of airflow; SDV-141 closes on a station ESD	SAF-RPT-003	Measurement; Instrumentation		
52	Beacons XY-214A and XY-214B and the horn operate; horn audible at the gates	SAF-RPT-003	Instrumentation		
53	Fire extinguishers installed and tagged	SAF-RPT-005; OSHA 1910.157	Owner		
54	Portable four-gas monitors issued, calibrated and bump-tested	SAF-RPT-003	Owner		



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MEASUREMENT, COMMUNICATIONS AND SITE

Table 1-7: Measurement and Interconnect

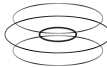
Item	Check	Reference	Responsible	Status	Initials and date
55	Ultrasonic meter flow calibration certificates on file (seven or more flow rates), with the meter tubes and conditioners	MEA-RPT-001; AGA 9	Measurement		
56	Flow computer FQI-110 configuration verified and witnessed by the receiving pipeline operator	MEA-DS-008; AGA 8; API MPMS 21.1	Measurement; receiving pipeline operator		
57	Chromatograph calibrated with a certified standard; analyzers AT-142, AT-143 and AT-144 calibrated	MEA-PRC-002; GPA 2261	Measurement		
58	Receiving pipeline operator's data interface point list tested end to end, Modbus and hardwired (HOLD H-14)	INS-RPT-002	Instrumentation; receiving pipeline operator		
59	Interconnect and operating agreement signed; receiving pipeline operator accepts gas (HOLD H-01)	Interconnect agreement	Owner; receiving pipeline operator		

Table 1-8: SCADA and Cybersecurity

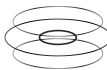
Item	Check	Reference	Responsible	Status	Initials and date
60	Primary and secondary communication paths tested; failover demonstrated	INS-RPT-002	Instrumentation; Telecom		
61	Cyber hardening complete: default passwords changed, unused ports and services disabled, firewall rules as approved	API 1164; INS-RPT-002	Integrator; Owner IT		
62	Remote access only through the multi-factor jump host; vendor accounts disabled	INS-RPT-002	Owner IT		
63	Configuration backups of the RTU, SIS, flow computer, BMS and firewall stored off site	INS-RPT-002	Owner IT		
64	Intrusion switches ZS-211A to ZS-211F alarm at SCADA; gates and buildings locked	GEN-DB-001	Instrumentation; Security		

Table 1-9: Personnel, Safety and Site

Item	Check	Reference	Responsible	Status	Initials and date
65	Operator qualification records for all personnel performing covered tasks	49 CFR 192 Subpart N	Owner		

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Item	Check	Reference	Responsible	Status	Initials and date
66	Drug and alcohol program covers contractors	49 CFR 199	Owner		
67	Training on the new procedures, the emergency response plan and the fire and gas system completed and recorded	49 CFR 192.615(b)	Owner		
68	Pre-startup tabletop emergency drill held with the receiving pipeline operator and the local fire department	SAF-RPT-005	Owner		
69	Signs posted: gate warnings, no smoking, emergency numbers, ESD pushbuttons, muster points, line markers	SAF-RPT-003; 49 CFR 192.707	Owner		
70	Two windsocks installed, visible from both muster points	SAF-RPT-004	Owner		
71	Operating procedures state that sections are blown down one at a time and that no truck loads at T-101 while VS-101 vents	SAF-RPT-004; PRO-CAL-008	Owner operations		
72	Personal protective equipment available: flame-resistant clothing, hearing protection, gloves, eye protection	OSHA 1910.132	Owner		
73	Housekeeping complete; temporary construction equipment and scaffolds removed; roads and gates clear	OSHA 1926	Contractor		
74	Stormwater controls in place per the SWPPP; T-101 containment drain valve locked closed	OKR10; NFPA 30	Civil; Owner		
75	Air permit or exemption determination on file for H-101 and G-101; NSPS 0000b applicability documented	GEN-DB-001	Regulatory		
76	Purging and gas-up procedure approved; nitrogen and oxygen monitoring available	Owner purging procedure	Owner		



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OPEN ITEMS AND AUTHORIZATION

Any item marked N is entered in Table 1-10 with its action, owner and due date. The PSSR leader, the Owner's operations manager and, for the interconnect items, the receiving pipeline operator's representative then sign Table 1-11 to authorize the introduction of gas. All 76 items must be Y or NA, or covered by a signed exception.

Table 1-10: Open Items and Exceptions

Item no.	Open item or exception	Risk if started with the item open	Action	Owner	Due date

Table 1-11: Authorization to Introduce Gas

Role	Name	Signature	Date
PSSR leader			
Owner operations manager			
Receiving pipeline operator representative (interconnect items)			

