 TORUS	· Owner CATHODIC PROTECTION TEST STATION SCHEDULE				Document No.	CP-LST-001
					Revision / Date	A · September 29, 2026
					Issue purpose	Issued for Review
CATHODIC PROTECTION · CATHODIC PROTECTION TEST STATION SCHEDULE						
Rev.	Date	Revision description	Prepared	Reviewed	Approved	
A	2026-09-29	Issued for Review				

NOTES

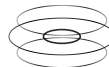
1. This schedule lists the cathodic protection test stations and junction boxes for the station and the outlet lateral. The design basis is CP-CAL-001, Cathodic Protection Design. Locations are shown on CP-DWG-001 and installation details on CP-DWG-002.
2. Coordinates are plot coordinates in feet from the southwest fence corner, X east and Y north, per MEC-DWG-001, Plot Plan.
3. Lead colors: black for station structure, white for the lateral side of an insulating joint, red for anodes, blue for coupons, yellow for reference electrodes, green for grounding. Test leads are #12 AWG HMWPE unless noted; current-span leads are #8 AWG HMWPE.
4. Test posts are polymer, 5 ft above grade, with a lockable terminal head and shorting links. Leads have an 18 in slack coil below grade. No test station is placed in a road.
5. Stations at IJ-101 and IJ-102 are within 10 ft of the joint. The joint decoupler is in its own Class I Division 2 enclosure, not in the test post.
6. Surveys: pipe-to-soil potentials, on and instant-off, at every station each calendar year at intervals not over 15 months; rectifier readings six times each calendar year at intervals not over 2-1/2 months (49 CFR 192.465). At TS-103, read the AC coupon current and act if the AC current density exceeds 30 A/m².

TEST STATIONS

Table 1-1: Test Station Schedule

Tag	X, ft	Y, ft	Type	Purpose
TS-101	30	12	4-wire IJ + anode	IJ-101 insulation test, upstream lateral potential, interim anode current
TS-102	224	155	4-wire IJ	IJ-102 insulation test, station and outlet lateral potentials, future resistance bond
TS-103	226	218	Anode + coupon	Outlet lateral potential north of fence, anode output limiting, AC current density (SP21424), IR-free potential
TS-104	100	63	2-wire + coupon	Fuel line 2"-F-1051 potential near FG-101, instant-off by coupon
TS-105	214	145	2-wire	Fuel line 2"-F-1051 potential near H-101
TS-106	178	30	2-wire	Fuel line 1"-F-1052 potential at G-101
TS-107	210	18	Negative junction box NJB-101	Current split between drains, structure connection check
TS-108	282	-45	Anode junction box AJB-101	Individual anode current, bed balance
TS-109	130	38	Coupon + reference	Polarization of station grounding / piping mid-station, remote from DW-101



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LEADS AND TERMINAL DEVICES

Table 1-2: Leads and Terminal Devices

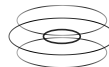
Tag	Leads and terminal devices
TS-101	IJ-101 station side: 1 #8 black (current) + 1 #12 black (potential); lateral side: 1 #8 white + 1 #12 white; MG-3 #10 red via 0.01 ohm shunt
TS-102	IJ-102 station side: 1 #8 black + 1 #12 black; lateral side (12"-G-1042): 1 #8 white + 1 #12 white; spare terminals for a future bond with the receiving pipeline (HOLD H-01)
TS-103	BS-1: 2 #12 white; MG-1, MG-2 #10 red each via 0.01 ohm shunt and 0-25 ohm adjustable resistor; AC coupon #12 blue; DC coupon #12 blue; permanent Cu/CuSO4 reference #14 yellow
TS-104	BS-3 south end: 2 #12 black; DC coupon #12 blue
TS-105	BS-3 north end: 2 #12 black
TS-106	BS-4: 2 #12 black
TS-107	2 x #2 negative drain cables via 0.001 ohm / 50 A shunts; rectifier negative #2
TS-108	5 x #8 anode leads via 0.01 ohm shunts and slide resistors; #2 positive header
TS-109	Grounding grid #12 green; DC coupon #12 blue; permanent Cu/CuSO4 reference #14 yellow

LOCATION CHECK

Table 1-3: Location Check Against the Plot Plan

Item	X, ft	Y, ft	In road	In lease	In right-of-way	Distance to buried pipe, ft	Result
DW-101	285	-45	none	yes	no	125.1	
AJB-101	282	-45	none	yes	no	122.6	
RECT-101	208	18	none	yes	no	27.1	
MG-1	230	210	none	yes	no	10.0	
MG-2	230	225	none	yes	no	10.0	
MG-3	34	3	none	yes	no	10.0	
TS-101	30	12	none	yes	no	7.2	
TS-102	224	155	none	yes	no	6.4	
TS-103	226	218	none	yes	no	6.0	
TS-104	100	63	none	yes	no	3.0	
TS-105	214	145	none	yes	no	5.0	



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Item	X, ft	Y, ft	In road	In lease	In right-of-way	Distance to buried pipe, ft	Result	
TS-106	178	30	none	yes	no	4.0		
TS-107	210	18	none	yes	no	29.5		
TS-108	282	-45	none	yes	no	122.6		
TS-109	130	38	none	yes	no	8.0		

Note 1: RECT-101 and NJB-101 (TS-107) are mounted on the wall of B-102 by design. Anodes MG-1 and MG-2 lie north of the fence, south of the receiving pipeline's right-of-way and clear of the north road; the outlet lateral crosses that road and the fence below grade.