 TORUS	[REDACTED] · Owner HYDROGEN SULFIDE ANALYZER AT-143	Document No.	[REDACTED] MEA-DS-005		
		Revision / Date	A · September 29, 2026		
		Issue purpose	Issued for Review		
MEASUREMENT · HYDROGEN SULFIDE ANALYZER AT-143					
Rev.	Date	Revision description	Prepared	Reviewed	Approved
A	2026-09-29	Issued for Review			

NOTES

1. This sheet defines the hydrogen sulfide analyzer used for tariff compliance and gas quality shut-in.
2. Values marked typical are budgetary. The vendor shall confirm them with its proposal and final data (HOLD H-15).
3. Units are US customary. Pressures are gauge unless stated as absolute; standard volumes are at 14.73 psia and 60 °F.
4. Operating cases C1 to C7 are defined in  GEN-DB-001, Basis of Design, Section 6.

GENERAL

Table 1-1: General Data

Item	Value	Item	Value
Tag	AT-143	Service	H2S content, tariff compliance
Technology	Lead-acetate tape (ASTM D4084); a laser analyzer is acceptable if the vendor demonstrates the range	Location	Analyzer shelter B-101
Area classification	Interior of B-101, Class I, Division 2, Group D, T3 ( GEN-DB-001 Section 8.1); electrical to confirm	Standard	ASTM D4084

PROCESS AND PERFORMANCE

Table 1-2: Process and Performance

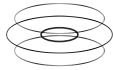
Item	Requirement
Sample	3/8" -G-1080-T1, 25 psig, 0.5 SLPM, typical, vendor to confirm (HOLD H-15)
Range	0 to 16 ppmv (about 0 to 1.0 grain/100 scf)
Alarm	High at 4 ppmv (0.25 grain/100 scf,  GEN-DB-001 Section 5.2); pre-alarm at 3 ppmv
Accuracy	±2 % of full scale, typical, vendor to confirm (HOLD H-15)
Cycle	3 min or less

UTILITIES AND OUTPUTS

Table 1-3: Utilities and Outputs

Item	Requirement
Consumables	Tape (about one roll per month) and humidifier solution (acetic acid)
Span gas	H2S in nitrogen, about 10 ppmv, certified
Power	24 VDC from the station UPS ( GEN-DB-001 Section 9.8); 120 VAC only where stated
Outputs	4-20 mA HART, Modbus, alarm relay
Vent	Individual 1/2 in tube (1/2"-V-1133-T1) to atmosphere above the B-101 roof



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OPEN ITEMS

Table 1-4: Open Items

HOLD	Item	Responsible party
H-13	Total sulfur measurement if required (5 grain/100 scf limit)	Receiving pipeline operator
H-15	Vendor data	Vendor

