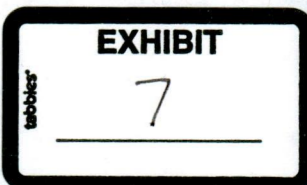


49 CFR 195 - Hazardous Liquids Inspection and Testing Requirements

ID	Inspection	Regulation	Required Frequency	Hess Frequency	Description
1	In-line Inspection for HCA	195.452	1x/5yr, NTE 68 Months	1x/3yr, NTE 42 Months (River Crossings) 1x/5yr, NTE 68 Months (On-Shore)	In-line inspection (i.e. smart-pig) to determine internal and external condition of line. <u>Comment:</u> Inspection frequency 1x/3yr, NTE 42 Months for the first several test intervals in order to build confidence in the expected corrosion rate. After the corrosion rate has been established and verified, adjust frequency to 49 CFR 195 requirement of 1x/5yr, NTE 68 Months.
2	Right of Way Patrol	195.412 (a)	26 x/yr, NTE 3 Weeks	As required by 49 CFR 195	Drive over or walk over or fly over visual inspection
3	Navigable Water Crossing	195.412 (b)	NTE 5 yr.	ROW patrols in line with Line 2 Walk Overs in line with Line 9 In-Line Inspection in line with Line 1	Visual inspections walk, drive, fly. 5 Yr Under water
4	Highway / Railroad Crossing	195.412	26 x/yr, NTE 3 Weeks	As required by 49 CFR 195	Visual inspections
5	Casing Vent Inspection	195.412	1 x/yr, NTE 15 Months - in line with Line 10	As required by 49 CFR 195	Visual and Hydrocarbon detection with equipment casing measurements
6	Leak Detection Survey	195.412	26 x/yr, NTE 3 Weeks	As required by 49 CFR 195	Drive over or foot patrol or fly over
7	CPM Leak Detection	195.444 API RP 1130 / 1149	NTE 5yr. per API RP 1130	1x/3yr or after significant changes to CPM system.	Actual or simulated test for possible commodity release.
8	Line Markers	195.41	Regulation does not specify a frequency but should be done for any marker on or near the pipeline's right of way.	1 x/yr, NTE 15 Months	Visual inspection to determine signage is accurate and still in place where needed.
9	Atmospheric Corrosion	195.583	1 x/3yr, NTE 39 Months	As required by 49 CFR 195	Visual inspection with notation on any repairs needed. API 570 used as guideline for visual inspections and corrosion monitoring. <u>Comment:</u> Area of emphasis around soil to air interface.
10	Cathodic Protection	195.573	1 x/yr, NTE 15 Months	As required by 49 CFR 195	Annual measurement of test leads/risers with half cell.
11	Close Interval Survey	195.571(a)(2)	Regulation does not specify a frequency requirement.	1x/3yr, NTE 39 Months	
12	Electrical Isolation Devices	195.575	1 x/yr, NTE 15 Months	As required by 49 CFR 195	Measurements to establish insulators are not shorted
13	Rectifier Inspection	195.573	6 x/yr, NTE 2.5 Months	As required by 49 CFR 195	Measurements to establish proper operation. Current service contract: Matcor
14	Corrosion coupons examined	195.579(b)(3)	2 x/yr, NTE 7.5 Months	As required by 49 CFR 195	Examine and measure weight loss to determine corrosion rate
15	Overpressure Safety Devices and Overfill Protection Systems Pressure Control Valves (Regulators)	195.428	1 x/yr, NTE 15 Months; for HVL - 2 x/yr, NTE 7.5 Months (NGL)	As required by 49 CFR 195	Inspect and test each device to assure proper function
16	Relief Valves on Pressure Breakout Tanks Containing Highly Volatile Liquids	195.428(c)	Intervals not exceeding 5 yr.	Not Applicable for Pipeline Project	Inspect and test each device to assure proper function
17	Surface Safety Device Inspection	195.428 (a)	1 x/yr, NTE 15 Months for HVL - 2 x/yr, NTE 7.5 Months (NGL)	2 x/yr, NTE 7.5 Months	Inspect and test each device to assure proper function <u>Comment:</u> Inspect surface safety devices 2 x/year, to include bi-annual testing during the summer and the winter seasons.



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ID	Inspection	Regulation	Required Frequency	Hess Frequency	Description
18	Key Valve Maintenance Inspection	195.420 (b)	2 x/yr, NTE 7.5 Months	As required by 49 CFR 195	Assure proper operation of the valve and it is secured. Partial stroke test (50%).
19	Exposed Pipe Report	195.569 / 195.579	Whenever a pipeline has been exposed	As required by 49 CFR 195	Inspect any excavated or exposed pipe for corrosion
20	GPS Readings for Facility and Pipeline Mapping	195.404	Initial inspection and whenever changes are made to pipeline system	As required by 49 CFR 195	Comprehensive and complete maps of pipeline facility. Changes to Pipeline routing to be managed through MOC process.
21	Pipeline Damage	195.442	Anytime the operator has reason to believe damage has occurred from third-party damage or outside force, such as excavation, blasting, flooding, etc.	As required by 49 CFR 195	Participation in local damage prevention program and inspect as frequently as necessary any suspected excavation damage. <u>Comment:</u> Hess is a member of the Pipeline Association for Public Awareness (PAPA), hosts "Diggers Banquets" for local excavation contractors, and registers jurisdictional pipelines with the State One Call center as required. Through these groups Hess communicates with excavators, public officials, emergency responders and other interested parties regarding critical information regarding pipeline assets.
22	Pumping Station Warning Devices	195.262	Tested before pumping station may be used	As required by 49 CFR 195	Test for over pressure protection, fire protection, and building venting prior to start up.

Acronym	Definition	Notes
HCA	High Consequence Area	Commercially navigable waterway, high populated areas, any areas of drinking water or ecological resource area.
CPM	Computational Pipeline Monitoring	An algorithmic monitoring tool that alerts the Pipeline Controller to respond to a detectable pipeline hydraulic anomaly (perhaps both while the pipeline is operating or shut-in) which may be indicative of a commodity release.
NTE	Not To Exceed	
HVL	Highly Volatile Liquids	A hazardous liquid which will form a vapor cloud when released to the atmosphere and which has a vapor pressure exceeding 276 kPa (40 psia) at 37.8 °C (100 °F). Relevant for NGL only.
NGL	Natural Gas Liquids	
API 570	Piping Inspection Code	In-service Inspection, Rating, Repair, and Alteration of Piping Systems