

Longhorn Mitigation Plan
Commitment Implementation Status Report
Annual - 2019

Mitigation Item No.	Description	Timing	Status of Commitment Implementation
38	Longhorn shall submit periodic reports to DOT/OPS that will include information about the status of mitigation commitment implementation, the character of interim developments as relate to mitigation commitments, and the results of mitigation-related studies and analyses. The reports shall also summarize developments related to its Operational Reliability Assessment ("ORA"). The quarterly reports shall be made available to the public.		This report covers the 2019 annual reporting period. This report addresses mitigation commitments that either begin with, or extend beyond startup and have not had a Completion Report submitted to PHMSA/OPS. System startup occurred January 27, 2005.
10	Longhorn shall, following the use of sizing and (where appropriate) geometry tools, perform an in-line inspection of the existing pipeline (Valve J-1 to Crane) with a transverse field magnetic flux inspection (TFI) tool and remediate any problems identified. See the LPSIP at Section 3.5.2 and the ORA at Section 4.0.	At such intervals as are established by the ORA, provided that an inspection shall be performed no more than 3 years after system startup in Tier II and III areas.	No TFI runs were required or completed in 2019. No digs from previous ILI runs were completed in 2018.
11	Longhorn shall, following the use of sizing and (where appropriate) geometry tools, perform an in-line inspection of the existing pipeline (Valve J-1 to Crane) with a high resolution magnetic flux leakage tool (MFL Tool) and remediate any problems identified. See the LPSIP at Section 3.5.2 and the ORA at Section 4.0.	Within 3 months of startup and thereafter at such intervals as are established by the Operational Reliability Assessment	In 2019, MFL tools were run from Warda to Buckhorn, Satsuma to East Houston, and East Houston to Speed. 4 digs were completed in 2019 related to ILIs -- 2 digs from Satsuma to East Houston, and 2 from Crane to Texon (related to a 2018 run).
12	Longhorn shall, following the use of sizing and (where appropriate) geometry tools, perform an in-line inspection of the existing pipeline (Valve J-1 to Crane) with an ultrasonic wall measurement tool (UT Tool) and remediate any problems identified. See the LPSIP at Section 3.5.2 and the ORA at Section 4.0.	At such intervals as are established by the ORA, provided that an inspection shall be performed no more than 5 years after system startup.	No ultrasonic wall measurement tool runs were required or completed in 2019.
12a	Longhorn shall perform an in-line inspection of the existing pipeline (Valve J-1 to Crane) with a "smart" geometry inspection tool and remediate any problems identified. See the LPSIP at Section 3.5.2 and the ORA at Section 4.0.	At such intervals as are established by the ORA, provided that no more than 3 years shall pass without an in-line inspection being performed using an inspection tool capable of detecting third party damage	In 2019 smart geometry tool inspections, High Resolution Deformation, were completed on 3 segments; Warda to Buckhorn, Satsuma to East Houston, East Houston to Speed sections. These were completed in conjunction with the MFL runs.
19	Longhorn has performed studies evaluating each of the following matters along the pipeline, and shall implement the recommendations of such studies. See Mitigation Item 19.		
19b	Scour, erosion and flood potential.	Periodically after startup. (Scheduled inspections occur at various water crossings at 5 year intervals and in accordance with the ORA. Inspections also occur after certain flood events).	Waterway inspection was completed on the Pin Oak Creek crossing in 2019.
19d	Ground movement, subsidence and aseismic faulting	Periodically after startup. (The study recommended surveys to be performed every 6 months).	Monitoring was completed in June and December of 2019.

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19e	Landslide potential.	Periodically after startup. (The study recommended surveys to be performed every 5 years).	A photogrammetry survey was conducted in December of 2015 and will not be completed again until 2020.
25	Longhorn shall develop enhanced public education/damage prevention programs to, inter alia (a) ensure awareness among contractors and potentially affected public, (b) promote cooperation in protecting the pipeline and (c) to provide information to potentially affected communities with regard to detection of and responses to well water contamination. See the LPSIP Section 3.5.4 See Mitigation Appendix, Item 25.	Continuously after startup.	Public awareness program was implemented as required by the LMP. Annual mail out was conducted for the affected public residential, general businesses and schools within ½ mile of the pipeline for urban areas and within 2 miles of the pipeline in rural areas, excavators and farmers within 10 miles of the pipeline and emergency officials and local public officials within the county, plus 20 miles of the pipeline. Brochures are mailed in envelopes after an increase in returned Business Reply Cards (BRC's) occurred after the first mailing change in 2011. Magellan participated in an outreach program with scheduled emergency responder and excavator meetings in all 25 counties. Magellan continues to operate a school outreach program targeted at 4th and 5th grade students in the Austin area reaching 314 students and 15 teachers. Magellan participates in the Safe at Home school program in the Houston area reaching 510 students and 21 teachers. Magellan Sponsored the Texas Statewide School Pipeline Safety program for the LMP counties. Magellan targeted 148 emergency responders in all 25 counties and provided maps and other information about Magellan's system in regard to public safety. Magellan continued our Kiosk program to distribute pipeline safety and damage prevention information and provided refills of promotional items for 12 of our 24 targeted stores. Magellan was a sponsor with a collaborative group for National Excavator Initiative to target excavators with information and resources related to damage prevention featuring Mike Rowe from Dirty Jobs, this included several videos featuring Mike Rowe posted to the NEI website, 84 different creative materials and tools, more than 20 media channels, over 500 million impressions throughout the country, and Mike Rowe's Facebook post about 811 that generated almost 300,000 views of the introduction video, received 9,100 likes, and was shared more than 900 times. Magellan was a sponsor of Professional Sports Partnership collaborative 811 opportunities that included a 4-5 month campaign in the Houston area including the presence of 811 at several concerts and events at the Sam Houston Race Park and SMART Financial Centre and Ads/PSAs on billboards, screens at events, and social media for each event. Magellan conducted a Pipeline Response class for excavators and the general public, attended quarterly Damage Prevention Council meetings, had an 811 booth at the Permian Basin Damage Prevention Council's Safety Day/Mock Line Strike event, had an 811 booth at Mingo's burritos in Crocket County, participated in a collaborative sponsorship of the Excavation Safety Day facilitated by Texas 811 Damage Prevention Council, participated in collaborative sponsorships of jockey's riding in the Kentucky Derby and Preakness Stakes that were broadcast nationwide, placed billboards in counties along our ROW, placed newspaper and magazine ads, and posted several safety messages to Magellan's Facebook page. Magellan is a Bronze sponsor of the Common Ground Alliance.
31	Longhorn shall perform a surge pressure analysis prior to any increase in the pumping capacity above those rates for which analyses have been performed or any other change which has the capability to change the surge pressures in the system. Longhorn will be required to submit mitigation measures acceptable to DOT/OPS prior to any such change in the system, which mitigation measures will adequately address any MASP problems on the system identified by the surge pressure analysis.	Prior to any change in the system that has the capability to cause surge pressures to occur on the system	No LMC 31 changes were submitted for surge mitigation in 2019.
32	Longhorn shall perform pipe-to-soil potential surveys semi-annually over sensitive and hypersensitive areas (which is twice the frequency required by DOT regulations - 49 C.F.R. 195.416) and corrective measures will be implemented, as necessary, where indicated by the surveys. See LPSIP Section 3.5.1.	No more than six months after startup and semi-annually thereafter.	Semi-annual pipe-to-soil potential surveys for 2019 have been completed.
Lower Colorado River Authority (LCRA) Settlement Agreement			

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6	Describe any emergency drills and results from those drills within the Pedernales basin (City of Austin, Pedernales River watershed and Bastrop County) during this reporting period.	Once every 3 years	An emergency drill was conducted near Johnson City on June 18, 2019.
Exhibit A 3a	Plans and specifications sealed by a professional engineer in Texas that details modifications necessary to public water systems that are regulated by TNRCC (or any successor agency) that take water from Lake Travis. Resealing should occur once every five years.	Once every 5 years	Plans and specifications were submitted to PHMSA in January 2019.
	Describe any maintenance, inspections, smart pigging, repairs, upgrades to the pipeline within the Colorado River basin (City of Austin, Pedernales River watershed and Bastrop County) during this reporting period. Colorado River Basin identified as MP 94.45 to MP 426.8 which includes ILI segments of Satsuma to Warda (last 18.5 miles), Warda to Cedar Valley, Cedar Valley to Eckert, Eckert to Ft. McKavett, and Ft. McKavett to Crane (first 102 miles)	Annually	A High Resolution Deformation tool run was completed within the Colorado River Basin in 2019 from Warda to Buckhorn(MP 113 to 68). No digs were completed within the Colorado River Basin in 2019
Operational Reliability Assessment			
	The ORA will provide Longhorn with an annual technical assessment of the actual effectiveness of the overall LPSIP. The ORA will provide feedback on the adequacy, frequency, and additional element criteria of the evaluation plan, which includes use of internal inspection devices, hydrotests, and other mechanical integrity assessment and confirming processes and technologies. The ORA results will be factored back into the LPSIP and will be integrated into the ongoing program.	Annually, or per event as defined in LMP	OPS approved Kiefner and Associates, Inc., as the independent, third-party ORA contractor. The 2019 Annual ORA report covering 2018 operations is to be submitted to PHMSA first quarter 2020.
Longhorn Pipeline System Integrity Plan			
	The LPSIP consists of certain specific "Process Elements." The descriptions and program attributes of the Process Elements reflect action "over and above" those specified and required under various regulations and statutes, such as DOT's Title 49 C.F.R. Part 195. Implementation of the "Process Elements" will ensure that Longhorn will effectively identify, analyze, and responsibly manage the most important threats to and risk of the Longhorn Pipeline System.	Continuously - Operations Annually - Self Audit	The 2019 LPSIP Annual Self-Audit covering 2018 operations was completed, provided to PHMSA on January 31, 2020 and made available to the public on the Magellan Midstream Partners website at www.magellanlp.com under the "What We Do" tab and "Longhorn Info" link.
Relative Risk Assessment Model			
	The Relative Risk Assessment Model (Model) is designed to automatically prioritize and sort pipeline segments in accordance with their scored relative risk in relation to all other segments. Changes in the surrounding population, the environment, or mechanical attributes of the pipeline are updated in the model as new information is available and the Model is rerun.	Annually, or per event as defined in LMP	The model is updated periodically as new information becomes available. The Relative Risk Model was changed to a Probabilistic Risk Model per the approved 2012 EA. The new model was fully implemented on August 12, 2013. The model showed that risk levels met the threshold outlined in the 2012 EA. The model was rerun in 2019 based on data modifications for operations in 2018 and the risk levels continue to meet threshold.
Material Documentation - Reversal EA			

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6	Conduct non-destructive or destructive strength tests for 50% of all annual pipe excavations associated with in-line inspection anomaly evaluations or remediation.	Continuously after startup	In 2019 thirty-one (31) excavations were associated with in-line inspection anomaly evaluations meeting the criteria for material testing per the material documentation requirement. Non-destructive positive material identification was completed on eighteen (18), 58%, of the excavated locations.
9 b (iv)	Run Hardspot Tool that can detect pipe hard spots: (1) Remediate indications that pipe is susceptible to hard spots (over 325 Brinell hardness) based upon known pipe information (i.e. manufacturing vintage, has had a past leak or failure due to a pipe hard spot in the pipeline) as soon as practicable but no later than one (1) year after Hardspot Tool run.	Within 1 year of startup and thereafter at such intervals as are established by the Operational Reliability Assessment	No Hardspot Tool runs were required or completed in 2019.
12	Submit procedures and perform Close Interval Surveys (CIS) on a maximum 5-year basis and remediate findings. Perform initial survey within one-year of PHMSA issuance of FONSI.	Procedures Modifications - Prior to startup CIS within 1 year of startup and thereafter at maximum interval of 5 years	Magellan submitted to PHMSA January 16, 2013 revised procedure 7.04-ADM-001. The first CIS was completed in April 2013. A follow up CIS was completed in summer of 2018.
13	Submit procedures and perform AC Potential Interference Surveys on a maximum 5-year basis and remediate findings. Perform initial survey within one-year of PHMSA issuance of FONSI.	Procedures Modifications - Prior to startup AC Potential Interference Survey within 1 year of startup and thereafter at maximum interval of 5 years	Magellan submitted to PHMSA January 16, 2013 revised procedure 7.04-ADM-001. The first AC Potential Interference Survey was completed in December 2013. A follow up AC Potential Interference Survey was completed in 2018.