

KRGT IMP Performance Measures

IMP Performance Metrics		Year											
Four Overall Performance Metrics per ASME B31.8S		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of miles of pipeline inspected versus program requirements (Total number of miles inspected in calendar year using all inspection methods)	HCA only	0	75	16	2	1	77	17	1	0	89	16	2.8
	Non HCA	0	155	691	466	4	109	691	464	0	141	699	464.8
	Total	0	230	707	467	4	186	708	465	0	230	716	467.7
Number of <b>immediate repairs</b> completed as a result of the integrity management inspection program (Sum of all immediate repairs for all inspection methods)	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of <b>scheduled repairs</b> completed as a result of the integrity management inspection program (Sum of all scheduled repairs for all inspection methods)	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	1	0	0	0	0	0	0	0	0	0	0
	Total	0	1	0	0	0	0	0	0	0	0	0	0
Number of leaks, failures, and incidents, classified by cause.	HCA only	1	1	1	1	0	0	1	1	1	2	0	1
	Non HCA	9	2	4	9	2	2	4	2	2	4	9	4
	Total	10	3	5	10	2	2	5	3	3	6	9	5
Additional Performance Measures		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of miles of baseline assessments completed in calendar year (all inspection methods)	HCA only	0	0	0	0	0	0	0	0	0	1	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	31	0	0
	Total	0	0	0	0	0	0	0	0	0	32	0	0
Number of miles of reassessments completed in calendar year (all inspection methods)	HCA only	0	75	16	2	1	77	17	1	0	87	16	2.8
	Non HCA	0	155	691	466	4	109	691	464	0	111	699	464.8
	Total	0	230	707	467	4	186	708	465	0	198	716	467.7
Number of miles inspected by pressure testing	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Total number of pressure test failures (ruptures and leaks)	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of pressure test ruptures (complete failure of pipe wall) repaired in calendar year	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of pressure test leaks (less than complete failure of pipe wall) repaired during calendar year	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Threat Specific Performance Measures		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
External Corrosion Threat		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of hydrostatic test failures caused by external corrosion.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of repair actions taken due to inline inspection results, immediate and scheduled.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0

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Number of repair actions taken due to direct assessment results, immediate and scheduled.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of external corrosion leaks.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of repair actions taken due to any inspection, <u>monitored</u> .	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	1	0	0	0	0	0	0	0	3
	Total	0	0	0	1	0	0	0	0	0	0	0	3
<b>Internal Corrosion Threat</b>		<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
Number of hydrostatic test failures caused by internal corrosion.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of repair actions taken due to inline inspection results, immediate and scheduled.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of repair actions taken due to direct assessment results, immediate and scheduled.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of internal corrosion leaks.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
<b>Stress Corrosion Cracking (SCC) Threat</b>		<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
Number of in-service leaks/failures due to SCC.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of repairs or replacements due to SCC.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of Hydrostatic test failures due to SCC.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
<b>Manufacturing Threat (Pipe Seam and Pipe)</b>		<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
Number of hydrostatic test failures caused by manufacturing defects.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of leaks due to manufacturing defects.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0
Number of repairs due to manufacturing defects	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	1	2	2	0	8	2	0	0	0	0	0	0
	Total	1	2	2	0	8	2	0	0	0	0	0	0

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<b>Construction Threat</b>		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of leaks or failures due to construction defects.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of girth welds/couplings reinforced /removed.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	5	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	5	0	0	0	0
Number of wrinkle bends removed.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of wrinkle bend inspections.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of fabrication welds repaired/removed.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Equipment Threat</b>		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of regulator valve failures.	HCA only	0	0	0	0	0	0	1	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	1	0	0	0	0	2
	<b>Total</b>	0	0	0	0	0	0	2	0	0	0	0	2
Number of relief valve failures.	HCA only	0	0	0	0	0	0	0	0	0	0	0	1
	Non HCA	0	0	0	0	0	0	0	0	0	0	3	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	3	1
Number of gasket or O-ring failures.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	1	0	0	0	0	0	0	0	0	0	2	1
	<b>Total</b>	1	0	0	0	0	0	0	0	0	0	2	1
Number of leaks due to equipment failures.	HCA only	1	1	1	1	0	0	1	1	1	2	0	1
	Non HCA	9	2	4	9	2	2	4	2	2	4	4	0
	<b>Total</b>	10	3	5	10	2	2	5	3	3	6	4	1
<b>TOTAL</b>	11	3	5	10	2	2	7	3	3	3	6	9	5
<b>Third Party Damage Threat</b>		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of leaks or failures caused by third party damage.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of leaks or failures caused by previously damaged pipe.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of leaks or failures caused by vandalism.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of repairs implemented as a result of third party damage prior to leak or failure. <sup>3</sup>	HCA only	0	0	0	0	0	0	0	1	0	0	0	0
	Non HCA	0	6	0	1	2	0	1	2	0	0	1	1
	<b>Total</b>	0	6	0	1	2	0	1	3	0	0	1	1

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<b>Incorrect Operations Threat</b>		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of leaks or failures caused by incorrect operations.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of audits/reviews completed. <sup>1</sup>	HCA only	4	13	7	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	7	7	15	6	25	30	7	7	8
	<b>Total</b>	4	13	7	7	7	15	6	25	30	7	7	8
Number of findings per audit/review classified by severity. <sup>2</sup>	HCA only	1	1	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	1	1	0	0	0	0	0	0	0	0	0	0
Number of changes to procedures due to audits/reviews. <sup>2</sup>	HCA only	4	6	5	4	3	4	9	0	0	0	16	41
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	4	6	5	4	3	4	9	0	0	0	16	41
<b>Weather and Outside Forces Threat</b>		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number of leaks that are weather related or due to outside force.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0
Number of repair, replacement, or relocation actions due to weather related or outside force.	HCA only	0	0	0	0	0	0	0	0	0	0	0	0
	Non HCA	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0

<sup>1</sup> Audits include pre-audits, PHMSA audits and MAOP special permit audit

<sup>2</sup> Audit findings and procedure changes may be related to the following: NOAs, NOPVs, significant pre-audit compliance findings. Procedure changes should be significant procedure changes and **will match procedure changes identified in section 10.0 of the current MAOP special permit report.**

<sup>3</sup> Per ASME B31.8S Table 4, third party damage is equal to damage inflicted by first, second, or third parties.