

Northern Natural Gas
2020 Maintenance Capital Reconciliation
Posted March 15, 2021
(\$ in thousands)

RP19-1353

	Actual 2020	Updated Plan December 2020	Increase/ (Decrease)
Operations			
Pipeline Assessments	\$ 65,197	\$ 64,670	\$ 527
Compression Replacement	67,288	64,796	2,492
LNG Replacement	30	67	(37)
Underground Storage Integrity	2,548	2,230	318
Vintage Pipeline Replacement	108,855	107,453	1,402
Total Asset Modernization	243,918	239,216	4,702
Building/Facility - Field	7,109	7,368	(259)
Pipeline-Integrity	63,642	57,555	6,087
<i>NEB46001 Auburn BL Abandonment</i>	542	444	98
<i>M500C-Class 3 Replacement - MP 82.0 and 82.6</i>	4,604	5,004	(400)
Pipeline-Shallow/Exposed Pipe	24,150	22,853	1,297
<i>WIB22301-3.55 Rib Lake HDD</i>	31	29	2
Measurement	7,269	7,724	(455)
Automation/Controls	8,511	9,228	(717)
<i>Beatrice Automation</i>	-	10	(10)
<i>Clifton Controls Upgrade 1, 2, 3 and 4</i>	261	255	6
<i>Carlton Controls Upgrade Phase 1</i>	511	543	(32)
Pipeline - Relocation	4,062	4,124	(62)
Compressor Mods	19,345	19,704	(359)
<i>Spraberry Header Piping Modifications</i>	5,272	5,241	31
Underground/LNG Storage	19,657	19,956	(299)
Measurement-Heaters	5,476	5,633	(157)
Valve Installation/Replacement	7,909	8,194	(285)
Corrosion Control	24,273	24,540	(267)
<i>M532B MP 0.603 Pipe Replacement</i>	6,627	6,399	228
Odorization	2,285	1,840	445
Pipeline Safety Act HCA	11,897	11,783	114
<i>MNB75601-24"-Replace MP 1.1-2.7 Willmar</i>	3,508	3,333	175
Unit Exchange	2,887	2,978	(91)
Systems Development	2,516	3,079	(563)
Special Projects	10,497	10,618	(121)
Retirements	8,550	10,118	(1,568)
Risk-ESD	4,069	4,060	9
Trans/Mob Wrk Eqp	4,215	4,084	131
Information Technology	9,516	11,651	(2,135)
Other	13,721	14,694	(973)
Other Maintenance Capital	261,556	261,784	(228)
Total Maintenance Capital	\$ 505,474	\$ 501,000	\$ 4,474
Maintenance Capital Target	501,000	501,000	
Variance - Increase/(Decrease)	\$ 4,474	\$ -	

Notes:

Items in italics are individual projects that are greater than \$5 million over the course 2020-2023 maintenance capital plan period and are included in the total for the project category.