

Appendix A

Miles of Distribution Main										
State	Bare Steel	Coated Unprotected Steel	Iron	Copper	Subtotal Replacement Candidates	Percent of Total	Protected Steel	Plastic	Other	Total
AK	10	-	-	-	10	0.3%	568	2,392	-	2,970
AL	859	538	1,423	2	2,826	9.4%	12,436	14,599	49	29,909
AR	1,448	26	166	-	1,640	8.2%	7,401	11,033	-	20,074
AZ	570	-	-	-	570	2.4%	7,037	16,411	-	24,019
CA	5,801	2,466	116	-	8,383	8.0%	43,880	52,068	0	104,331
CO	261	654	47	-	962	2.7%	12,218	22,531	80	35,792
CT	195	55	1,521	-	1,783	23.1%	3,265	2,659	-	7,708
DC	28	68	425	-	521	43.8%	313	356	-	1,190
DE	26	25	96	-	147	5.2%	617	2,078	-	2,841
FL	1,303	526	253	-	2,082	8.0%	10,377	13,528	2	25,988
GA	247	-	19	-	267	0.6%	17,159	25,791	-	43,217
HI	130	-	-	-	130	21.3%	161	320	-	611
IA	187	133	19	-	338	1.9%	7,659	9,719	0	17,717
ID	-	-	-	-	-	0.0%	2,867	5,105	-	7,972
IL	364	15	2,116	-	2,780	4.6%	39,205	19,039	-	61,023
IN	877	174	340	-	1,409	3.5%	18,012	21,167	-	40,587
KS	3,568	0	117	-	3,690	16.9%	7,205	10,917	0	21,813
KY	884	86	89	2	1,060	6.1%	7,723	8,484	12	17,279
LA	959	125	484	-	1,568	6.0%	14,145	10,312	-	26,024
MA	1,902	1,161	3,903	-	6,968	32.9%	5,791	8,434	-	21,194

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MD	361	131	1,424	-	1,918	13.4%	5,262	7,165	4	14,350
ME	2	15	59	-	77	9.8%	144	558	2	780
MI	1,400	1,926	3,156	2	6,484	11.5%	20,746	28,923	11	56,164
MN	524	196	65	-	785	2.6%	6,887	22,151	-	29,822
MO	1,233	-	1,180	1	2,413	8.9%	11,851	12,818	-	27,082
MS	587	14	81	-	704	4.5%	7,855	7,110	-	15,669
MT	11	-	-	-	11	0.2%	2,288	4,535	-	6,835
NC	-	-	-	-	-	0.0%	10,743	17,971	-	28,714
ND	8	-	-	-	8	0.3%	1,160	1,848	-	3,015
NE	1,057	2	538	-	1,607	12.9%	6,239	4,609	1	12,455
NH	38	23	140	-	200	10.7%	731	934	0	1,866
NJ	1,821	787	5,168	2	7,807	23.2%	10,647	15,219	3	33,676
NM	119	1	-	-	120	0.9%	5,528	7,451	-	13,100
NV	28	1	-	-	29	0.3%	1,387	8,375	0	9,791
NY	7,246	1,425	4,541	-	13,212	27.7%	13,877	20,593	18	47,700
OH	7,951	2,824	693	1	11,473	20.2%	20,470	24,379	523	56,845
OK	1,889	89	-	-	1,978	7.8%	9,223	14,248	-	25,449
OR	17	-	-	-	17	0.1%	7,883	7,409	-	15,309
PA	8,091	1,347	3,453	2	13,084	27.4%	12,972	21,547	92	47,695
RI	392	188	891	-	1,488	46.8%	588	1,103	0	3,180

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State	Bare Steel	Coated Unprotected Steel	Iron	Copper	Subtotal Replacement Candidates	Percent of Total	Protected Steel	Plastic	Other	Total
SC	10	-	-	-	10	0.0%	8,257	12,187	-	20,454
SD	36	1	23	-	61	1.3%	1,798	2,712	0	4,571
TN	219	1	180	-	426	1.1%	14,849	22,338	-	37,613
TX	5,376	224	967	-	6,567	6.9%	39,606	49,170	22	95,364
UT	17	-	-	-	17	0.1%	3,893	12,665	-	16,575
VA	669	506	594	14	1,883	9.0%	5,604	13,380	12	20,880
VT	-	-	-	-	-	0.0%	188	499	-	688
WA	54	14	28	-	96	0.4%	8,587	13,003	-	21,686
WI	-	-	-	3	-	0.0%	12,936	24,389	45	37,370
WV	3,470	166	14	-	3,649	34.6%	1,248	5,652	12	10,561
WY	<u>86</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>87</u>	<u>1.7%</u>	<u>2,382</u>	<u>2,535</u>	<u>3</u>	<u>5,007</u>
U.S. Total	62,329	15,935	34,329	30	112,623	9.2%	473,871	644,418	893	1,231,805
Canada	213	-	142	-	355	0.2%	72,013	162,864	991	236,223

Sources: PHMSA, 2011 Gas Distribution Data

Canadian Gas Association, 2010 Gas Distribution Data

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Count of Distribution Services										
State	Bare Steel	Coated Unprotected Steel	Iron	Copper	Subtotal Replacement Candidates	Percent of Total	Protected Steel	Plastic	Other	Total
AK	44	36	-	1,857	1,937	1.6%	14,288	101,291	-	117,516
AL	161,755	3,033	411	1,146	166,345	15.7%	252,279	634,275	4,202	1,057,101
AR	29,235	27,326	-	-	56,561	8.4%	230,682	388,003	4	675,250
AZ	13,470	-	-	-	13,470	1.1%	196,512	1,037,674	-	1,247,656
CA	19,569	886,369	-	15,918	921,856	10.7%	2,314,052	5,411,277	12	8,647,197
CO	17,819	-	-	-	17,819	1.1%	521,523	1,039,898	40,829	1,620,069
CT	61,186	9,729	32	1,342	72,289	17.4%	67,196	270,019	6,489	415,993
DC	7,225	13,847	-	11,560	32,632	26.5%	5,200	85,163	-	122,995
DE	1,203	14,389	-	5,293	20,885	12.4%	16,935	128,872	1,568	168,260
FL	52,391	15,465	-	296	68,152	8.0%	201,007	584,389	2,877	856,425
GA	46,267	8,042	-	18	54,327	2.7%	434,504	1,517,188	-	2,006,019
HI	7,642	-	-	40	7,682	21.7%	5,594	19,333	2,851	35,460
IA	9,338	12,498	7	484	22,327	2.4%	284,060	602,535	22,141	931,063
ID	-	-	-	-	-	0.0%	94,740	310,496	92	405,328
IL	30,950	468	411	73,110	104,939	2.8%	854,368	2,056,674	746,626	3,762,607
IN	5,177	20,424	-	571	26,172	1.3%	481,673	1,457,909	289	1,966,043
KS	133,648	7,647	-	598	141,893	15.0%	98,747	705,739	144	946,523
KY	28,406	1,484	2,141	7,928	39,959	4.8%	249,721	547,545	1,042	838,267
LA	27,949	40,816	387	3,882	73,034	6.6%	585,740	441,682	3,105	1,103,561
MA	201,231	58,460	1,742	11,426	272,859	21.8%	164,179	711,267	103,713	1,252,018

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Count of Distribution Services										
State	Bare Steel	Coated Unprotected Steel	Iron	Copper	Subtotal Replacement Candidates	Percent of Total	Protected Steel	Plastic	Other	Total
MD	97,448	12,412	3	52,081	161,944	16.2%	146,585	691,286	74	999,889
ME	256	250	63	2	571	2.5%	255	22,084	42	22,952
MI	53,504	191,626	23	317,501	562,654	17.5%	524,368	2,092,374	38,570	3,217,966
MN	7,549	6,541	-	17,975	32,065	2.2%	132,577	1,282,966	3,467	1,451,075
MO	15,035	1,953	-	67,104	84,092	5.6%	240,030	1,188,043	74	1,512,239
MS	4,427	896	2	186	5,511	0.9%	281,864	304,727	-	592,102
MT	654	-	-	-	654	0.2%	111,107	176,792	-	288,553
NC	-	-	-	-	-	0.0%	280,571	1,076,781	-	1,357,352
ND	75	-	-	4	79	0.1%	42,637	105,533	-	148,249
NE	6,851	996	-	9,720	17,567	3.1%	204,475	292,225	56,554	570,821
NH	7,238	2,066	61	284	9,649	11.0%	14,578	61,895	1,731	87,853
NJ	300,194	12,494	-	68,398	381,086	16.7%	404,690	1,502,837	-	2,288,613
NM	10,431	267	-	-	10,698	1.7%	232,518	368,466	-	611,682
NV	2	-	-	-	2	0.0%	41,078	694,428	2	735,510
NY	391,036	155,140	8,947	195,860	750,983	23.2%	329,502	2,144,137	8,998	3,233,620
OH	188,191	38,397	57	110,101	336,746	9.5%	542,308	2,106,136	558,496	3,543,686
OK	62,966	3,471	-	1	66,438	5.2%	455,004	758,055	32	1,279,529
OR	111	-	-	-	111	0.0%	240,805	516,651	3,942	761,509
PA	339,384	106,614	61	22,785	468,844	16.8%	269,256	2,034,300	18,593	2,790,993
RI	46,199	9,850	210	209	56,468	29.7%	10,422	121,770	1,306	189,966

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State	Bare Steel	Coated Unprotected Steel	Iron	Copper	Subtotal Replacement Candidates	Percent of Total	Protected Steel	Plastic	Other	Total
SC	459	-	-	-	459	0.1%	180,730	564,360	-	745,549
SD	2,401	1,331	-	81	3,813	2.0%	47,607	140,563	1,645	193,628
TN	6,766	2,145	-	2,421	11,332	0.9%	405,045	892,200	-	1,308,577
TX	339,269	23,395	49	6,094	368,807	7.6%	1,541,348	2,883,995	33,858	4,828,008
UT	22	-	-	-	22	0.0%	135,522	638,499	5,918	779,961
VA	19,328	33,245	631	27,918	81,122	6.7%	159,637	962,359	7,233	1,210,351
VT	-	-	-	-	-	0.0%	4,841	29,092	-	33,933
WA	18,023	234	-	35	18,292	1.5%	324,037	902,821	498	1,245,648
WI	-	30	-	20,518	20,548	1.3%	300,208	1,288,355	2	1,609,113
WV	84,128	1,722	31	57	85,938	20.2%	68,335	269,626	728	424,627
WY	<u>3,176</u>	-	-	-	<u>3,176</u>	<u>1.8%</u>	<u>75,216</u>	<u>96,561</u>	<u>31</u>	<u>174,984</u>
U.S. Total	2,859,628	1,725,108	15,269	1,054,804	5,654,809	8.5%	14,820,156	44,261,146	1,677,778	66,413,889
Canada	11,372	-	-	-	11,372	0.2%	1,677,344	4,238,390	26,615	5,953,721

Sources: PHMSA, 2011 Gas Distribution Data

Canadian Gas Association, 2010 Gas Distribution Data