

Appendix C

Distribution System Planning

2012 Cascade Natural Gas IRP Forecast

Estimated Reinforcement Projects

Gate Station	Town	Reinforcement Needed?	Pipe Reinforcement Needed				
			Length (feet)	Size (inches)	Pipe Type	Additional Facilities	Year Required
Acme	ACME	no					
Arlington	ARLINGTON	yes	100	2	PE		2015
			720	4	PE		2018
			2070	6	PE		2022
Bellingham 1	BELLINGHAM	yes				reg	2012
			6230	6	PE		2016
			1600	4	PE		2023
			2600	4	HP	reg	2027
Burbank Heights	BURBANK	no					
Castle Rock	CASTLE ROCK	no					
Deming	DEMING	no					
Finley	FINLEY	no					
Grandview	GRANDVIEW	no					
Kalama	KALAMA	no					
Kelso / South Longview	KELSO	no					
	LONGVIEW	no					
Kennewick	KENNEWICK	yes	4000	4	PE		2010
			8400	6	HP	reg	2014
			2700	6	PE		2026
	RICHLAND	yes	5910	12	HP		2010
			5900	4	PE		2012
			1850	4	PE		2013
			1780	4	PE		2017
			800	4	PE		2017
			3730	4	PE		2018
			10400	12	HP		2023
			2400	4	PE		2026
			1980	4	PE		2029
	WEST RICHLAND	no					
Lawrence	LAWRENCE	no					
Lynden	EVERSON	no					
	NOOKSACK	no					

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McCleary	ABERDEEN	no					
	ELMA	no					
	HOQUIAM	no					
	MCCLEARY	no					
	MONTESANO	no					
Moses Lake	MOSES LAKE	no					
	WHEELER	no					
Mount Vernon		yes	960	4	PE		2023
			2590	4	PE		2028
Moxee	MOXEE CITY	no					
Othello	OTHELLO	no					
Pasco / North Pasco / Burbank Heights	PASCO	yes	2600	6	PE		2010
			6660	6	PE		2011
			1120	6	PE		2015
			2030	6	PE		2017
Patterson / Plymouth	PATTERSON - PLYM	NA					
Prosser	PROSSER	no					
Quincy	QUINCY	no					
Sedro-Woolley	ANACORTES HP	no					
	BURLINGTON	yes	3900	6	PE		2013
			1650	4	PE		2017
			3730	6	PE		2018
			2510	6	PE		2022
			520	6	PE		2025
			560	4	PE		2028
			2100	4	PE		2029
	ANACORTES	yes	100	2	PE		2015
			720	4	PE		2018
			2070	6	PE		2022
LA CONNER	no						
SEDRO-WOOLLEY	yes	3740	4	PE		2010	
		600	2	PE		2029	
Selah	SELAH	no					

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Shelton	BELFAIR	no					
	BREMERTON	yes	10200	6	HP	reg	2019
			1100	4	PE		2023
	CHICO	no					
	GORST	no					
	KEYPORT	no					
	KITSAP HP	yes	16900	12	HP		2011
			6200	12	HP		2015
			22300	12	HP		2024
	MANCHESTER	see Port Orchard					
	PORT ORCHARD	yes	890	2	PE		2010
			1150	4	PE		2012
			5960	6	HP	reg / uprate	2012
						reg	2015
3660			6	PE	reg / uprate	2019	
2023							
POULSBO	yes	2330	6	PE		2013	
		2800	4	PE		2013	
SHELTON	no						
SILVERDALE	yes	2750	4	PE		2013	
SUNNYSLOPE	no						
Stanwood	CAMANO ISLAND	no					
	OAK HARBOR	yes	1610	4	PE		2013
			2390	4	PE		2015
			3070	4	PE	reg	2017
			3120	6	PE		2021
reg	2023						
STANWOOD	yes	1480	6	PE		2013	
Sumas	LYNDEN	yes	1030	4	PE		2012
			3890	4	HP		2015
			3650	4	PE		2017
			540	8	Steel		2026
			1930	4	PE		2029
			2780	4	PE		2030

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Sumas	BLAINE	yes	4480	4	PE		2013
			8500			5 regs / upra	2030
	FERNDALE	yes	7080	4	S		2010
			5280	4	PE		2016
			1600	4	PE		2016
			1840	4	S		2019
						3 regs / upra	2022
			5280	6	PE		2024
			15840	4	HP	new reg	2027
			6500	6	PE		2027
5500	4	PE		2029			
SUMAS	no						
WHATCOM HP	no						
Sunnyside	SUNNYSIDE	no					
Walla Walla	COLLEGE PLACE	no	1500	4	HP		2014
	WALLA WALLA	no					
Wenatchee	EAST WENATCHEE	see Wenatchee					
	WENATCHEE	no					
Woodland	WOODLAND	no					
Yakima	UNION GAP	no					
	YAKIMA	yes	2000	6	PE		2011
			12500	8	HP	reg	2017
Zillah	GRANGER	no					
	TOPPENISH	no					
	WAPATO	no					
	ZILLAH	no					

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Athena	ATHENA	no					
	WESTON	no					
Baker City	BAKER	no					
Bend / South Bend	BEND	yes	3680	8	S		2012
			6500	4	HP	reg / uprate	2012
			1390	6	S		2012
			17540	8	HP	reg	2014
			6780	8	HP	reg	2016
			3680	8	HP	reg / uprate	2016
			6780	8	HP	reg	2018
			2400	4	PE		2019
			4120	8	HP	reg	2019
			2300	6	PE		2022
			1340	4	PE		2024
			1200	6	PE		2027
1990	4	PE		2029			
Chemult	CHEMULT	no					
Gilchrist	CRESCENT	no					
	GILCHRIST	no					
Hermiston	HERMISTON	yes	4160	4	PE		2010
			2830	4	PE		2014
			1400	4	PE		2015
			620	2	PE		2019
Huntington	HUNTINGTON	no					
La Pine	LA PINE	no					
Madras	MADRAS	yes	12000	6	HP	reg	2015
	METOLIUS	no					
Milton-Freewater	MILTON-FREEWATER	no					
Mission	MISSION	no					
Ontario	NYSSA	no					
	ONTARIO	no					
	VALE	no					
	ONTARIO HP	no					

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Pendleton	PENDLETON	no					
	PILOT ROCK	yes	1310	4	PE		2010
Prineville	PRINEVILLE	yes	2100	6	PE		2012
			700	6	PE		2015
Redmond	REDMOND	yes	1350	6	PE		2011
			2130	4	PE		2012
			2240	4	HP	reg	2014
			1460	6	PE		2018
			2030	6	PE		2019
			640	6	PE		2028
			4000	4	HP	reg	2029
Stanfield	STANFIELD	no					
Sunriver	SUNRIVER	yes	5440	6	PE		2010
			130	2	PE		2010
			2010	4	PE		2015
Umatilla	BOARDMAN	no					
	IRRIGON	no					
	UMATILLA	yes	5000	4	HP		2016

Notes:
 PE: Polyethylene (plastic) Pipe
 HP: High Pressure Steel
 Pipe
 reg: new pressure control (regulator) station
 uprate: operating pressure increase