

Appendix C

Distribution System Planning

2010 Cascade Natural Gas IRP Forecast
Estimated Reinforcement Projects

| Gate Station | Town | Reinforcement Needed? | Reinforcement Needed | | | | |
|------------------------|---------------|-----------------------|----------------------|------|------|------------|------|
| | | | Length | Size | Type | Facilities | Year |
| 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 | no | 4000 | 4 | PE | | 2010 |
| | | | 8400 | 6 | HP | new 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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| | | | Length | Size | Type | Facilities | Year |
| McCleary | ABERDEEN | no | | | | | |
| | ELMA | no | | | | | |
| | HOQUIAM | no | | | | | |
| | MCCLEARY | no | | | | | |
| | MONTESANO | no | | | | | |
| Moses Lake | MOSES LAKE | no | | | | | |
| | WHEELER | no | | | | | |
| Mount Vernon | 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 - PLYMOUTH | 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 | |

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|-----------------|-----------------------------|-----------------------|----------------------|------|--------------|--------------|------|
| | | | Length | Size | Type | Facilities | Year |
| Selah | SELAH | yes | | | | | |
| 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 OAK HARBOR | no | | | | | |
| | | 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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|--------------|----------------|-----------------------|----------------------|--------|----------|----------------|--------------|------|
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| Sumas | BLAINE | | 4480 | 4 | PE | 5 regs / uprat | 2013 | |
| | | | 8500 | | | | 2030 | |
| | FERNDALE | yes | 7080 | 4 | S | 3 regs / uprat | 2010 | |
| | | | 5280 | 4 | PE | | 2016 | |
| | | | 1600 | 4 | PE | | 2016 | |
| | | | 1840 | 4 | S | | 2019 | |
| | | | 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 | yes | | | | | | |
| Yakima | UNION GAP | no | | | | | | |
| | YAKIMA | yes | 2000 12500 | 6 8 | PE HP | reg | 2011 2017 | |
| Zillah | GRANGER | no | | | | | | |
| | TOPPENISH | no | | | | | | |
| | WAPATO | no | | | | | | |
| | ZILLAH | no | | | | | | |
| Athena | ATHENA | no | | | | | | |
| | WESTON | no | | | | | | |

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| | | | Length | Size | Type | Facilities | Year |
| 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 | new 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 | no | 5000 | 4 | HP | | 2016 |