

**CASCADE NATURAL GAS CORPORATION**  
**Oregon Public Utility Commission**  
**Standard Data Requests**  
**UG 287**

**Request No. 311**

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311. With regard to the Company's response to Staff Data Request No. 237, please provide for all projects with a 2015 budgeted cost over \$0.5 million that are not listed as "Blanket" (FP-200282, FP-200688, FP-200352, FP-200663, FP-309301) the following:
- a. Project justification forms or other supporting documentation from field personnel justifying the necessity of the proposed project;
  - b. The annual amount spent on each project from its inception through the present;
  - c. Any presentation or manager approval used to justify the undertaking of the project;
  - d. A narrative discussing how DIMP was used in the selection of the project;
  - e. Any other supporting documentation identifying, demonstrating, or justifying why the project is necessary or prudent to be carried out at this time.

**Response:**

- a. FP 200282 – The Sun River gate is being upgraded to meet increased demands. I have attached an email from Kathleen Chirgwin, the engineer serving the Bend District, detailing the pressure alarms that we have at the Sun River Gate due to demands.

FP 200688 – The Bend Bare Steel Replacement projects are driven by DIMP. The DIMP output is attached as "A311 a - FP 200688 (1).pdf" and "A311 a - FP 200688 (2).pdf". The first file is the original DIMP output for Bend in 2013 and the second file is an updated 2015 run after earlier phase completions.

FP 200352 – The CC&B project is a utility group project, meaning that all four utilities are implementing the software. Costs are shared accordingly. Go-Live for the software was staggered with Cascade going live in 2010, at which time CNGC's share of the costs were capitalized. As the other utilities proceed with implementation CNGC continues to receive its share of the total costs.

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FP 200663 – Continuing updates to the GIS system for CNGC. Includes additional functionality and Land base enhancements.

FP 309301 – Yakima Training Facility is a training ground for operations personnel to develop consistent, up-to-date, installation and maintenance standards. The training center will allow for consistently trained personnel in order to perform their jobs in a safe and consistent manner. Having the facility readily available will be convenient and avoid external training costs.

- b. See attached spreadsheet entitled “A311 b-e.xlsx”. Note that FP 200282 and FP 309301 have been postponed until 2016, therefore there are no costs include in the 2015 column.
- c. FP 200282 – The Sun River Gate project has been delayed until next year due to concerns about forest fires in the area. For that reason it has not yet been approved in Power Plan.  
  
FP – 200688 - The original email providing approval for the preliminary costs for 2013 phase of this project is provided as “A311 c – FP-200282.pdf”. In May of 2013 CNGC implemented Power Plan and approval was granted through Power Plan, rather than email and JDE. The approvals for the 2014 and 2015 WOs are attached. Se files attached as “A311 c – FP-200282.pdf (1)”, “A311 c – FP-200282.pdf (2)”, “A311 c – FP-200282.pdf (2.1)”, “A311 c – FP-200282.pdf (3)”, and “A311 c – FP-200282.pdf (3.1)”
- d. The Bend Bare Steel Replacement projects (FP-200688) is a multi-year project that will replace bare steel and pre-CNG pipe in the City of Bend, Oregon. This project was selected based on the output of Cascade’s DIMP. Information gathered from field observations and Subject Matter Experts (SMEs) was entered into a GIS-based risk model and the output showed that the town of Bend had the highest risk score in Oregon.
- e. See attached spreadsheet entitled “A311 b-e.xlsx”.

**Bend**  
**2013 DIMP Model Run**  
**June 24, 2013**  
**Scale: 1:10000 on 24x36**

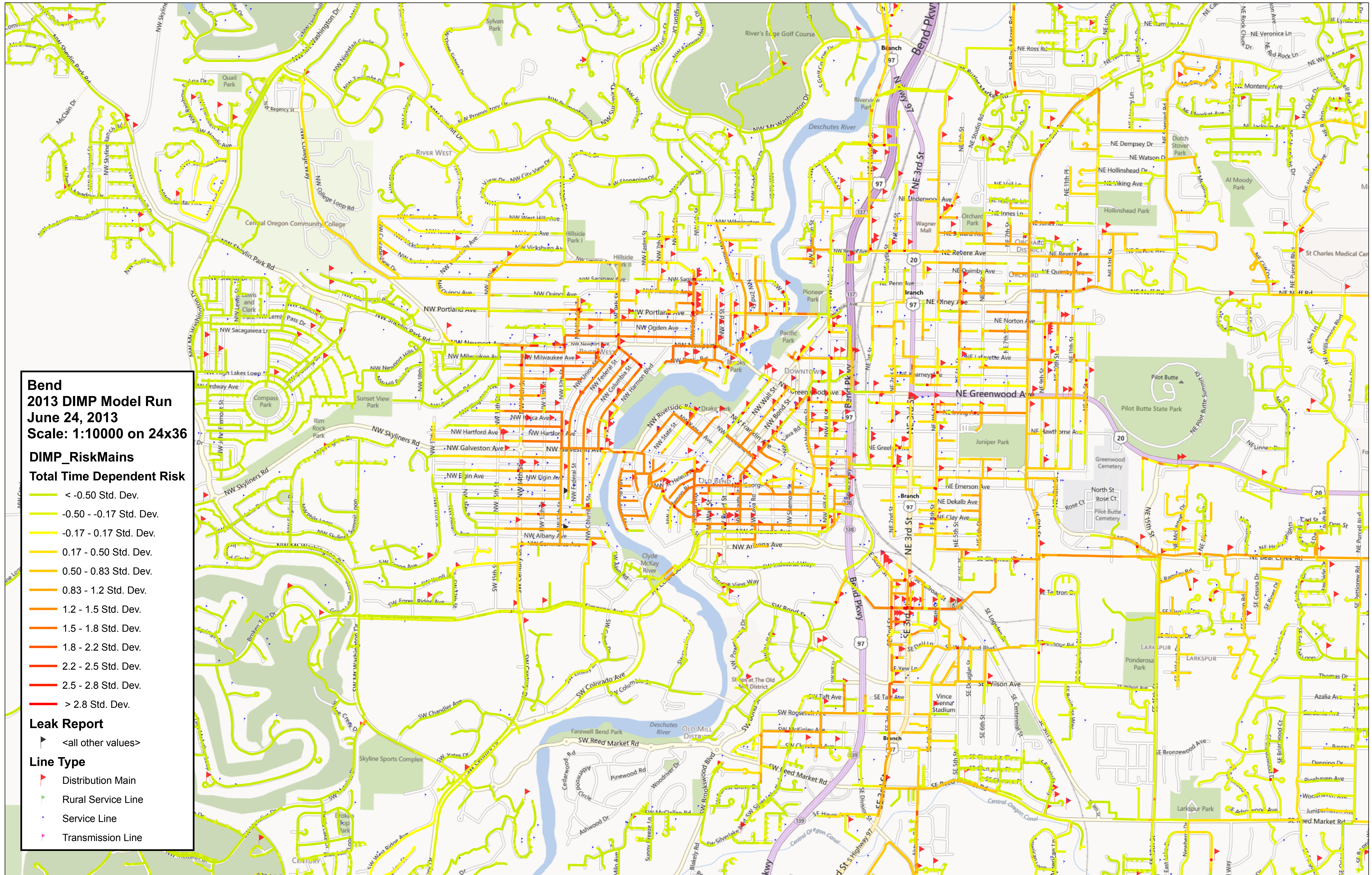
**DIMP\_RiskMains**  
**Total Time Dependent Risk**

- < -0.50 Std. Dev.
- -0.50 - -0.17 Std. Dev.
- -0.17 - 0.17 Std. Dev.
- 0.17 - 0.50 Std. Dev.
- 0.50 - 0.83 Std. Dev.
- 0.83 - 1.2 Std. Dev.
- 1.2 - 1.5 Std. Dev.
- 1.5 - 1.8 Std. Dev.
- 1.8 - 2.2 Std. Dev.
- 2.2 - 2.5 Std. Dev.
- 2.5 - 2.8 Std. Dev.
- > 2.8 Std. Dev.

**Leak Report**  
▶ <all other values>

**Line Type**

- ▶ Distribution Main
- ▶ Rural Service Line
- ▶ Service Line
- ▶ Transmission Line



**Bend**  
**2015 DIMP Model Run**  
**July 10, 2015**  
**Scale: 1:12000 on 24x36**

**DIMP\_RiskMains**  
**TotalRisk**

- < -0.75 Std. Dev.
- -0.75 - -0.25 Std. Dev.
- -0.25 - 0.25 Std. Dev.
- 0.25 - 0.75 Std. Dev.
- 0.75 - 1.2 Std. Dev.
- 1.2 - 1.7 Std. Dev.
- 1.7 - 2.2 Std. Dev.
- 2.2 - 2.7 Std. Dev.
- > 2.7 Std. Dev.

**Leak Report**

- ▲ <all other values>

**SubtypeCD**

- ▲ Above Ground
- ▲ Below Ground
- ▲ Retired

**Gas Valve**

- <all other values>

**Present Position**

- Closed
- Open
- Unknown
- Gas Pipe Casing

