

**CENTRAL MAINE POWER COMPANY  
 RESPONSE TO ORAL DATA REQUEST NO. 13  
 DOCKET No. 2008-255**

**March 9, 2010**

**ODR-13-28**

- Q.** Please provide an explanation in sufficient detail explaining reasoning why 254 needs to be bundled 795 conductor rather than 1113 conductor.
- A.** Bundled 795 kcmil ACSR conductor is sufficient for both the impedance and the thermal capability needs for Section 254. A single 1,113 kcmil ACSR conductor is insufficient for both the thermal and impedance requirements of Section 254 to support the Bangor area under the loss of both Section 388 and 3023. This is summarized in the attached study report.

Although a bundled 1113 kcmil ACSR conductor would work, it would be more costly than bundled 795 kcmil ACSR, as shown in the following table.

|                        | Single circuit 115kV on existing ROW. 115kV H-frame Structures. Twin bundle 1113 ACSR conductor. Orrington to Coopers Mills Rd (Maxcy's) | Single circuit 115kV on existing ROW. 115kV H-frame Structures. Twin bundle 795 conductor. Orrington to Coopers Mills Rd (Maxcy's) |
|------------------------|--|--|
|                        | 254  | 254  |
| <b>Construction</b>    |  |  |
| Material               | \$8,541  | \$7,412  |
| Labor                  | \$48,103   | \$46,317   |
| <b>General</b>         |  |  |
| Engineering/Permitting | \$11,234   | \$10,651   |
| Administrative         | \$281  | \$266  |
| Reserve                | \$5,617  | \$5,325  |
| Contingency/Escalation | \$13,027   | \$12,355   |
| <b>Land</b>            | \$6,824  | \$6,824  |
| <b>Total</b>           | <b>\$93,627</b>  | <b>\$89,150</b>  |

As described in the response to ODR-13-30, both 795 kcmil and 1,113 kcmil conductors are standard in the CMP system, with 795 kcmil primarily used for radial lines and 1113 kcmil used for non-radial lines.

However, for Section 254, there is little benefit in using the 1,113 kcmil conductor because the line in the bundled configuration is not thermally limited, as is more often the case for the single conductor 115 kV lines. Therefore, the additional cost for the 1,113 kcmil conductor was not justified and the bundled 795 kcmil configuration is proposed for Section 254.

**Response Prepared and Submitted By:**

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