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Sent: 12/17/2013 10:45:54 AM  
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Bcc:  
Subject: Responses to last night's L147 questions

Liza

Here are three things you asked for last night.

1. A description of what it takes to get Line 147 back up to transmission level service. Basically, it takes between 4-8.5 hours depending on whether it happens during work or off hours, and about 12 people to get it done. The description provides info about where the work has to take place.

2. Two slides that graphically show why L147 needs to operate at 330 psig to provide needed transmission system redundancy/emergency re-routing capability. It's a good image of what happens in case of an outage both now – at 125 – and later, with the line back at 330.

3. A list of safety related projects that are at risk of not being completed while L147 operates at 125 psig. They are grouped in 3 categories (and their descriptions are a bit cryptic):

- [Redacted] PSEP valve automation and regulation projects
- [Redacted] Pipeline replacement projects
- [Redacted] In-line inspection upgrade projects

All of these projects require clearances so that gas can continue to flow while portions of the pipe are taken out of service to be worked on. Line 147 needs to be operating at transmission level pressures (330) to accommodate that.

There are about 6 projects that definitely **cannot** proceed: they include 2 PSEP valve automation and regulation projects that were scheduled for installation on December 13, 2 pipe replacement projects on Lines 101 and 109 that are scheduled this spring, and 2 In-line inspection upgrade projects on Line 101 that are scheduled for April 2014.

There are another 17 projects that are at serious risk of not being able to proceed, and will require further analysis if L147 is not returned to transmission level service.

Hope this gets you what you were looking for. But as always, Mel and his team are ready to provide more information.