

From: Horner, Trina  
Sent: 1/31/2011 5:48:53 PM  
To: 'rwc@cpuc.ca.gov' (rwc@cpuc.ca.gov); Halligan, Julie (jmh@cpuc.ca.gov)  
Cc: Carter, Glen E (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=GECJ);  
Johnson, Kirk (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=MKJ2)  
Bcc:  
Subject: FW: Industry paper on hydrotest

Rich, Julie,

Following up on our conversation today, I'm forwarding the Kiefner paper that Kirk mentioned to you regarding hydro tests.

In terms of your questions for the Kiefner Associates folks, it would be best just to schedule some time with them and Glen. We'll get some times that would work for them and propose a few options, if that works.

Thanks,  
Trina

**From:** Johnson, Kirk  
**Sent:** Monday, January 31, 2011 2:27 PM  
**To:** Horner, Trina  
**Cc:** Carter, Glen E; Singh, Sumeet  
**Subject:** FW: Industry paper on hydrotest

Trina, here is the paper.

Kirk

**From:** Fassett, Robert (GT&D)  
**Sent:** Friday, December 17, 2010 2:06 PM  
**To:** Johnson, Kirk  
**Subject:** Fw: Industry paper on hydrotest

Fyi

**From:** Fassett, Robert (GT&D)  
**Sent:** Wednesday, December 15, 2010 06:13 AM  
**To:** Raffy Stepanian (rst@cpuc.ca.gov) <rst@cpuc.ca.gov>  
**Cc:** Carter, Glen E; Stock, William  
**Subject:** Industry paper on hydrotest

<<Kiefner on hydrotests.pdf>>

Raffy,

There was some mention about hydro-tests in yesterdays phone call and I think there were different understandings of there use and the plusses and minuses with using them. My understanding of them is influenced by the attached paper from John Kiefner and Willard Maxey entitled "the Benefits and Limitations of Hydrostatic Testing" . They differentiate between hydro-tests for new construction and hydro-tests as an integrity assessment method for existing pipelins. For existing pipelines they state that if one can use an ILI tool designed to address the threat of concern then ILI should be used instead of hydro-testing. If hydrotesting has to be used they provide criteria for when is can be used and criteria for how to design the test. They do not recommend hydro-test to last longer than 30 minutes for a test of 1.25 of MOP of the line.

I'd be happy to discuss further if you'd like.

Take Care!

Bob