
Purdue Testing Status

June 1st and 2nd, 2010

Gas Accumulation Management Meeting

Presented by: Steve Swantner
(Westinghouse)

Background

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- Project aimed at filling gap in industry knowledge
 - Gas transport data in large diameter elbows and vertical pipes
 - Project Objectives
 - Empirically based scaling arguments
 - Flow regime identification
 - Phenomenon identification
 - Guidance for plant specific gas transport in pump suction piping

Project Phases

- Testing conducted at Purdue University
- Phase I (2005) – **PA-SEE-0217**
 - Examined gas transport in 6” and 8” piping
 - WCAP-16631 documented program and results

Project Phases

- Phase II (2008-2010)
 - Examine gas transport in 4” and 12” piping
 - 12” test complete December, 2008
 - 4” cold test complete July, 2009
 - Determine temperature effects using 4” piping
 - 4” heated test complete December, 2009
 - Develop scaling methodology to cover 4” to 30” pipe
 - Draft Purdue scaling report (August, 2009)
 - Draft Westinghouse scaling report (May, 2010)

Schedule for Completion

- Final WCAP – July 31, 2010