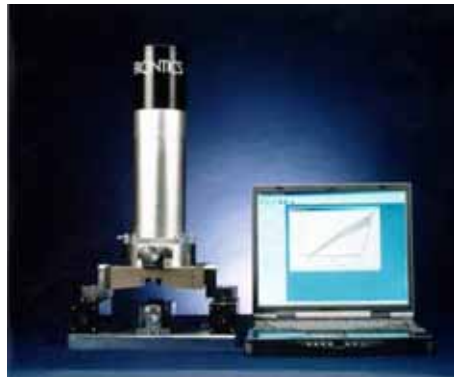


Brief Report

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AIS 2000 GE demonstration



Prepared by



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AIS 2000 GE demonstration ()

1.

Demonstration 가 가 AIS 2000
 (Advanced Indentation System 2000) 가 가
 GE Power System (PII, Pipeline Integrity International)
 . Demonstration 2002 4 26 27 ,
 GE Power System 가 가 GE Power System
 가 Texas Houston .

2.

2000 10 , (federal regulation)
 가 (DOT, Department of Transportation)
 가 .
 가
 (PART 192--TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM
 FEDERAL SAFETY STANDARDS) (Section 192.107)

- Each length (joint) of pipe installed in a pipeline be documented as to the "grade" of steel used in the making of the joint of pipe.
- Given the pipeline owners five years to bring their records into compliance
- Should a pipeline contain one or more undocumented pipe joints, the pipeline be operated at pressure assuming the pipe grade is 24,000 psi

AIS 2000
 demonstration , .

3. 가

AIS 2000 GE X42, X60, X70 3

250 μm, 0.3mm/min, 150 μm,
 15, 50%, AIS
 2000 가 (Curvature Magnetic)

AIS 2000 GE Dr.
 Ming Gao “Congratulations!”

* GE

Table. Results from the AIS tests on API X60 pipeline steel.

AIS 2000 Measurement (MPa)		Mill Data (MPa)		Deviation	
469.5	612.9	475.0	615.0	-1.1%	-0.4%
486.7	645.3			+2.5%	+4.9%
499.8	614.3			+5.2%	-0.2%

