

# PROJECT CONTROL DOCUMENT – TRP 9944 / 0412Y

**PROJECT TITLE:** Improved Criteria for acceptable Yield Point Elongation of Surface Critical Steels

**PROJECT DESCRIPTION:** The project has the following primary objectives; (1) to characterize the geometry of Luders bands that occur during forming of steels having yield point elongation (YPE) and (2) evaluate and modify acceptance criteria for steels under “modern” application requirements. The Luders phenomenon has a great influence on the perceived product quality in many applications. Relevant studies on the subject are mostly decades old and reevaluation of YPE acceptance criteria is appropriate using modern instrumentation within the current application context including metallic and organic coating systems.

## PRIMARY RESEARCH ORGANIZATION(S):

Colorado School of Mines  
Advanced Steel Process & Products Research Center  
Golden, CO

**PRINCIPAL INVESTIGATOR(S):** Dr. John Speer

**PROJECT PARTICIPANTS:** Dofasco                      Severstal N. A.  
Stelco Inc.                      USS - Posco  
US Steel

**PROJECT DURATION:** 24 Months

**PROJECT START DATE:** 12/8/04

**PROJECT BUDGET (excluding AISI Project Mgmt.):** \$210,306

**TECHNICAL PROJECT MANAGER:** BV Lakshminarayana – AISI, Washington DC

## KEY CONTACTS:

<u>NAME</u>	<u>COMPANY</u>	<u>PHONE</u>	<u>FAX</u>
J. Speer	Colorado Sch. of Mines	303-273-3897	303-273-3795
BV Lakshminarayana	AISI	202-452-7143	202-463-6573
J. Vehec	AISI	412-922-2772 x216	412-922-3213
D. Aichbhaumik	DOE	303-275-4763	303-275-4753
M. Ichikawa	Dofasco	905-548-4757	905-548-4653
C. Kristock	Severstal N.A.	313-323-6389	313-323-2270
D. McCutcheon	Stelco Inc	905-528-2511	905-308-7012
R. Simpson	USS – Posco	925-250-0025	925-434-6468
D. Haezebrouck	USS Research	412-825-2330	412-825-2919