

PROJECT CONTROL DOCUMENT – TRP 9904

PROJECT TITLE: Constitutive Behavior of High Strength Multiphase Sheet Steels Under High Strain Rate Deformation Conditions

PROJECT DESCRIPTION: The project has the following primary objectives; (1) to assess the global state-of-the-art metallurgy and applications for multiphase sheet steel, (2) to quantify the effectiveness of various metallurgical strengthening mechanisms in the high strain rate regime, (3) to develop an alloying/processing approach to produce optimal multiphase sheet steel, and (4) to improve crash simulation models using data on constitutive material behavior.

PRIMARY RESEARCH ORGANIZATION(S):

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

PRINCIPAL INVESTIGATOR(S): Dr. John Speer
Dr. David Matlock

PROJECT PARTICIPANTS: Bethlehem Steel/ISG Ispat Inland
MTS Systems Corp National Steel
Severstal N.A. US Steel

PROJECT DURATION: 60 Months

PROJECT START - END DATE: 12/10/99 - 4/6/05

PROJECT BUDGET (excluding AISI Project Mgmt.): \$1,023,060

TECHNICAL PROJECT MANAGER: BV Lakshminarayana – AISI, Washington DC

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