

# PROJECT CONTROL DOCUMENT – TRP 0101

**PROJECT TITLE:** Inclusion Optimization for Next Generation Steel Products

**PROJECT DESCRIPTION:** The purpose of this study is to outline a plan to determine the conditions of formation of inclusions in liquid steels and to determine the processing conditions during casting that will allow these inclusions to become nucleants for solidification and subsequent solid state phase transformations. The program will result in a new understanding of the role of inclusions in steel production and will be the foundation of the inclusion engineered steels that are required for current and future casters.

## PRIMARY RESEARCH ORGANIZATION(S):

Carnegie Mellon University  
Department of Materials Science and Engineering  
Pittsburgh, PA

**PRINCIPAL INVESTIGATOR(S):** Dr. Alan Cramb

**PROJECT PARTICIPANTS:** Ispat Inland/Mittal USA  
Timken Company  
USS Research  
Center for Iron and Steelmaking Research

**PROJECT DURATION:** 41 Months

**PROJECT START - END DATE:** 9/1/02 - 1/6/06

**PROJECT BUDGET (excluding AISI Project Mgmt.):** \$448,210

**TECHNICAL PROJECT MANAGER:** W. Obenchain – AISI, Washington DC

## KEY CONTACTS:

<u>NAME</u>	<u>COMPANY</u>	<u>PHONE</u>	<u>FAX</u>
A. Cramb	CMU	412-268-5548	412-268-7247
J. Vehec	AISI	412-922-2772 x216	412-922-3213
W. Obenchain	AISI	202-452-7208	202-463-6573
G. Ludkovsky	Mittal USA	219-399-6010	219-399-1186
P. Glaws	Timken Company	330-471-2360	330-471-3827
J. Defilippi	USS Research	412-825-2491	412-825-2828