

# PROJECT CONTROL DOCUMENT – TRP 0033

**PROJECT TITLE:** PCI Coal Behavior and Residual Char Carryover in the Blast Furnace during Pulverized Coal Injection (PCI) at High Rates

**PROJECT DESCRIPTION:** The objective of this project is to apply a newly developed approach for assessing coal and blast furnace performance during PCI to a number of North American steel companies. The laboratory investigation of coal combustion will be compared to actual blast furnace sample analysis. Blast furnace samples including blast furnace dust and sludge will be captured during PCI to determine the proportion of residual char and the combustion performance of the coals.

## PRIMARY RESEARCH ORGANIZATION(S):

University of New South Wales  
School of Materials Science and Engineering  
Sydney, Australia

**PRINCIPAL INVESTIGATOR(S):** Dr. Veena Sahajwalla

**PROJECT PARTICIPANTS:** Sparrows Point/ISG  
Ispat Inland Inc.  
US Steel Research

**PROJECT DURATION:** 49 Months

**PROJECT START - END DATE:** 3/16/01 - 4/20/05

**PROJECT BUDGET (excluding AISI Project Mgmt.):** \$324,310

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

## KEY CONTACTS:

<u>NAME</u>	<u>COMPANY</u>	<u>PHONE</u>	<u>FAX</u>
V. Sahajwalla	UNSW	61-2-9385-4426	61-2-9385-5956
J. Vehec	AISI	412-922-2772 x216	412-922-3213
W. Obenchain	AISI	202-452-7208	202-463-6573
T. Youmans	Sparrows Point	410-388-4424	410-388-4910
P. Chaubal	Ispat Inland	219-399-6860	219-399-6562
C. Rabold	US Steel Research	412-825-2603	412-825-2828