

# PROJECT CONTROL DOCUMENT – TRP 9953 / 0403C

**PROJECT TITLE:** Suspension Hydrogen Reduction of Iron Oxide Concentrate

**PROJECT DESCRIPTION:** The objective of the project is to develop an ironmaking process based on hydrogen and fine iron oxide concentrates in a suspension reduction process. The ultimate goal is to eliminate or drastically reduce the generation of CO<sub>2</sub> in the steel industry. Another benefit of the process is the productive use of the large quantities of very fine iron oxide concentrates produced in the U.S. that are well suited to suspension reduction. The technology is to be applied to the production of iron as a feed to the steelmaking process, eventually replacing the blast furnace and other carbon-based ironmaking processes that generate large amounts of CO<sub>2</sub>.

## PRIMARY RESEARCH ORGANIZATION(S):

University of Utah  
Salt Lake City, UT

**PRINCIPAL INVESTIGATOR(S):** Dr. H.Y. Sohn

**PROJECT PARTICIPANTS:**

Dofasco	Gallatin Steel
Hylsa	Mittal Steel
Ipsco	Nucor
Praxair	Timken Company
US Steel	

**PROJECT DURATION:** 24 Months

**PROJECT START DATE:** 3/17/05

**PROJECT BUDGET (excluding AISI Project Mgmt.):** \$527,213

**TECHNICAL PROJECT MANAGER:** Bill Obenchain – AISI Washington, DC

## KEY CONTACTS:

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