

PROJECT CONTROL DOCUMENT – TRP 0006

PROJECT TITLE: Hydrogen and Nitrogen Control In Ladle and Casting Operations

PROJECT DESCRIPTION: The purpose of the project is conduct experiments to determine the major factors that influence hydrogen and nitrogen content in ladle and casting operations. The goal is to develop predictive models for optimum final concentrations of hydrogen and nitrogen.

PRIMARY RESEARCH ORGANIZATION(S):

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

PRINCIPAL INVESTIGATOR(S): Dr. Richard Fruehan

PROJECT PARTICIPANTS: A. Finkl & Sons * Bethlehem Steel
* Non-CISR participant Gallatin Steel * IPSCO
North Star Steel Timken Company
USS Research
Heraeus Electro-Nite *
Republic Technologies *
Center for Iron and Steelmaking Research

PROJECT DURATION: 41 Months

PROJECT START - END DATE: 3/1/01 – 1/13/05

PROJECT BUDGET (excluding AISI Project Mgmt.): \$362,615

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

KEY CONTACTS:

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