

# PROJECT CONTROL DOCUMENT – TRP 0034

**PROJECT TITLE:** Real Time Melt temperature Measurement in a Vacuum Degasser Using Optical Pyrometry

**PROJECT DESCRIPTION:** The objective of the program is to develop a fiber-coupled, optical pyrometer for continuous melt temperature measurement in a vacuum degasser to reduce process time, enhance process control and eliminate manual or robot-operated thermocouples. The lance-based sensor will measure melt temperature before and after oxygen blowing.

## PRIMARY RESEARCH ORGANIZATION(S):

Process Metrix, LLC  
San Ramon, CA

**PRINCIPAL INVESTIGATOR(S):** Michel Bonin

**PROJECT PARTICIPANTS:** Bethlehem Steel  
Heraeus Electro-Nite  
US Steel Research

**PROJECT DURATION:** 62 Months

**PROJECT START DATE:** 1/19/01

**PROJECT BUDGET (excluding AISI Project Mgmt.):** \$1,546,113

**TECHNICAL PROJECT MANAGER:** BV Lakshminarayana – AISI, Washington DC

## KEY CONTACTS:

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