

# RD&T Technology Facilitation

## Product Action Plan

### **Product - High Performance Steel (HPS)**

Description of Product - New series of steel grades that have superior weldability and toughness compared to conventional structural steels.

Intended User - Division Bridge Engineers

Distribution methods - Demonstration bridge projects funded through FHWA and the Innovative Bridge Research and construction (IBRC) Program.

Delivery Date - The first 5-year phase is complete with the development and commercialization of HPS-70W in 1999.

Future Actions Needed / Planned - A second 5-year phase was initiated in 1999 and will continue through 2004.

### **Program/Product Support -**

R&D Contact - Bill Wright, High Performance Bridge Materials (HRDI-06).

CBU Contact(s) - Krishna Verma (HIBT), Vasant Mistry (HIBT)

Future Actions Needed / Planned - Incorporation of HPS products into codes. Continue development and implementation of other HPS products.

**Outreach - Implementation of HPS has already begun through a series of demonstration bridge projects funded through FHWA and the IBRC Program.**

Publications - FHWA R&D has developed a HPS Fabrication Guide Specification which is being published by AASHTO (American Association of State Highway and Transportation Officials) in the near future.

Future Actions Needed / Planned - Conduct research to study HPS structural performance.

**Training - AASHTO is currently in the process of publishing a fabrication guide to train fabricators. Industry, academia, and FHWA are all sharing roles in training.**

Schedule of Training / Workshop / Briefing - The Steel Bridge Forum sponsored by AISI has dedicated a major portion of their program to HPS at least through 2000. Speciality conferences - East coast conference is set for November 2000.

Intended Audience(s) - State DOT's