

Leading Automotive Manufacture Commissions Fuel Blend System



Main Objective:

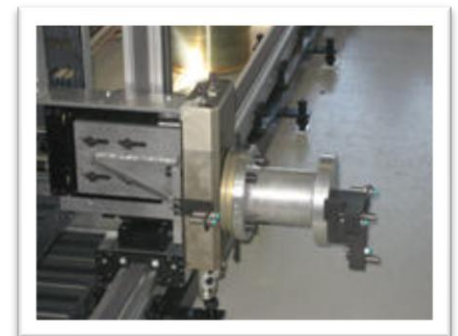
The purpose of this job was to perform the conceptual design, PLC and HMI software design, control panel build, mechanical subcontractor management, and commissioning for the fuel blend system at an automotive research facility.

Customer Results:

All systems controls performed as designed. The customer and end user were satisfied. Warranty work has been minimal, and OTI is contracted exclusively for all system upgrades.

Overview:

- ❖ The objective was to design and implement a control system to operate and monitor all of the manually actuated valves in this environment, as well as all automated valves in the fuel supply system.
- ❖ The Fuel Blending System contained two boards of 374 manually actuated valves. Each board (labeled “J” and “K”) contained 22 valves across by 17 valves high for a total of 748 valves. The valve boards supplied various fuel types to test cells in the research facility’s campus. Due to the types of fuel being used, the operational environment was treated as Class 1 Division 1.
- ❖ The Fuel Blending System PLC controlled the 17 automated ball valves that supplied fuel from the Head Tanks to the fuel blend board, the 44 automated ball valves along the bottom of the blend board that supplied fuel to the test cells, and the 19 hydrogen/helium valves that supplied various test cells.
- ❖ Industry Standards:
 - Class 1 Division 1
 - NFPA
 - NEC



Every owner, manager, and key decision maker is an engineer. They have all been through the ranks and learned this business before they were given the responsibility to manage it. Diversity is also a key to our success. From a technical standpoint specific areas of expertise include: High Temperature applications, Automotive Paint Finishing, Pharmaceutical Automation, Web Handling Applications, Custom Software Solutions, and Safety. As a Systems Integrator, we are a 50/50 split between Continuous Process and Discrete Automation expertise.

Outbound Technologies Inc.

30026 Research Drive, New Hudson, MI 48165, USA

Tel: (248)-735-5000 Fax: (248)-735-5001

www.outboundtech.com

Email: MI@outboundtech.com

