



A Rockwell Automation Company

El Paso Corporation - Colorado Interstate Gas Rawlins Hot Oil Furnace Ignition Control

The Client:

El Paso's interstate transmission system spans the nation, border to border and coast to coast. The nationwide pipeline system is consolidated into three regional operations.

The Western Pipeline group consists of El Paso Natural Gas Company and Colorado Interstate Gas Company and is headquartered in Colorado Springs, Colorado.

Colorado Interstate Gas (CIG) is a major transporter of natural gas in the Rocky Mountain region. The Colorado Interstate Gas system is connected to nearly every major supply basin in the Rocky Mountains as well as production areas in the Texas Panhandle, western Oklahoma, western Kansas, and Wyoming.

The Requirement:

The primary project objective was to upgrade the ignition process for the fifteen burners on the hot oil furnace at the Rawlins Gas Plant. The existing burners were currently lighted with a burning rag. It was a two-person operation, requiring one person to bleed the bypass valve at the main gas control valve, while the second individual opens each main burner valve, lighting it directly.

To limit start-up costs and meet an on-time delivery,

the following items were addressed and agreed upon prior to project design:

- Existing furnace design and control was to remain the same.
- Existing hot oil furnace pneumatic controls were to be retained.
- A John Zink Company retrofit package housing for each new pilot was to be installed.

The Design Solution:

Hinz was contracted to prepare a detailed budgetary estimate for the control system upgrade of the existing hot oil furnace pilots. Working with El Paso personnel, a detailed proposal and estimate were prepared which defined the project scope, budget, and implementation plan.

The scope of work included:

- Evaluation of the proposed high-energy igniters and control panel layout from John Zink Company (OEM).

The detailed project scope included:

- Modification of the existing furnace pilots with new high-energy igniters.
- Redlining existing electrical control drawings to show interface control power to the new John Zink

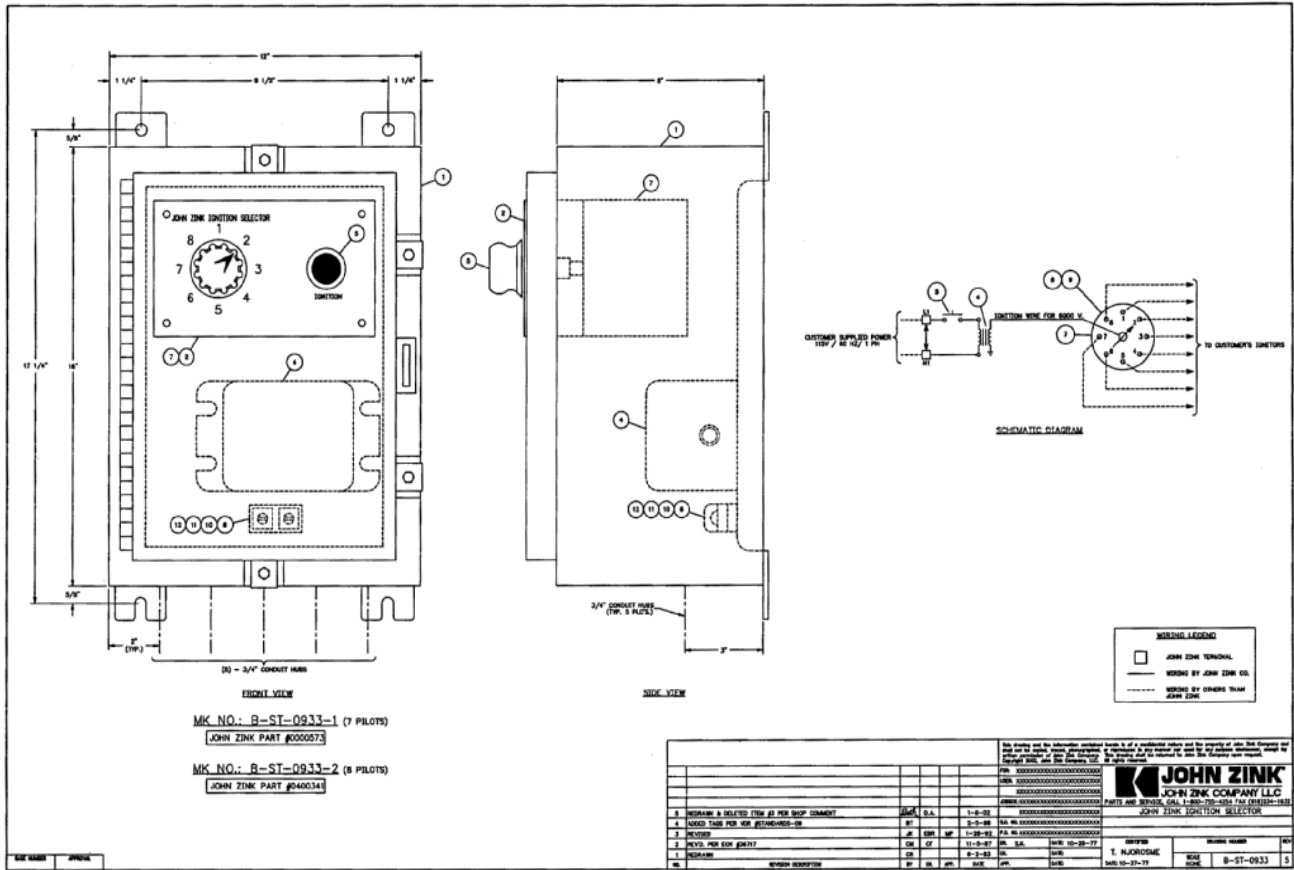
ignition control panel. El Paso performed all CADD functions on this project.

- Preparation of a detailed scope of work for the electrical and mechanical construction contractors' bid documents.
- Preparation of Functional Requirements Document (FRD).
- Providing specification sheets for purchase by El Paso of all new equipment required for this project.
- Submission of project tracking documents to include progress reports and budget cost analysis.
- Commissioning of the new control hardware.
- Submission of final as-built FRD documentation.



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System Specifications:

- (2) John Zink weatherproof ignition control panels, with ignition transformer, 8-position selector switch, and ignition pushbutton.
- (15) John Zink Stationary Air Registers, for retrofit of current pilot housings.
- (15) John Zink Electric Ignition Pilots for VBM-16 burners.
- (2) John Zink Sight Port Assemblies with Refractory Plug.

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com