



## **Project Profile: Full-Service Engineering**

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### **COMPANY**

ROHM & HAAS, INC.  
4300 Campground Road  
Louisville, KY 40232

### **SERVICES PROVIDED**

- Electrical Engineering
- Instrumentation Engineering
- Software Development
- Construction Management
- Hardware Procurement
- Commissioning and Startup
- Training

### **PROJECT DESCRIPTION**

Rohm & Haas has retained the services of Pfeiffer Engineering Company on a continuous basis at their Louisville, KY plant since 1984. We provide engineering services in the areas of project conceptual development, design, software development, construction coordination, startup assistance and training.

Approximately 875 projects have either been completed or are now being executed in Louisville. Projects range from small improvement projects to major facility expansion and modernization projects.

Pfeiffer Engineering is also providing service to facilities recently purchased by Rohm & Haas, principally their plants in Cincinnati and West Alexandria, Ohio.

Pfeiffer Engineering is included on most projects at the conceptual stage where we play a major role in process design. When we are assigned a project, we become a member of Rohm & Haas' design team, which consists of plant engineering, production management, process operator and maintenance mechanic.

Our projects consist of many major reactor automation projects where control systems are upgraded to fully automated batch recipe distributed process control systems. We have worked on continuous reactor projects, extruder systems, spray dryers, utility systems, boiler systems, power distribution as well as many others. The majority of our work is on retrofit projects involving very short process shutdowns, thus, requiring extensive planning and preparation. Our projects range from a few thousand dollars to multi-million dollars.

Many of the control systems we developed consist of programmable controller systems with computer based supervisory controllers, and we also work with Rohm & Haas' large-scale distributed process control systems.

Besides design, Pfeiffer Engineering provided a full-time resident field engineer for supervision and coordination of construction activities. Startup assistance is provided in the form of teams of engineers covering one to three shifts. The startup crew performed checkout and calibration of the various electrical and instrumentation systems, as well as checkout and debugging of various software systems.

The scheduling of these projects ranged from the normal project schedule, where design, construction, and startup activities followed each other, to fast track projects, where all three states were carried out simultaneously on various portions of a reactor system. This was done to meet schedule commitments and to minimize the downtime of the reactor.