



## Filter Replacement

The D/3<sup>®</sup> DCS Used to Improve Another Major Brewing Operation.

### CUSTOMER OVERVIEW

Making the highest quality beer has been a passion of this major U.S. brewer since its founding in 1855. Since then, it has grown from a small local brewer to the second largest brewery in the U.S., with seven major breweries located across America. It owns and produces many brands of beer. Each brand is made with attention to exacting detail and quality.

### NOVATECH & BREWING

For over a decade, NovaTech has been this company's first choice for major brewing automation and control applications. From brewing- brew house and fermentation to cold service, NovaTech Systems brings precision, information and control to each process. By deploying a greater degree of automation, this brewer has earned the reputation as a leading contract manufacturer and the most efficient and cost effective producer of product in the brewing industry.

### NOVATECH APPLICATIONS DELIVER VALUE TO BREWING

Brewers have recognized the value of working with NovaTech Systems on the automation of their facilities including a recent replacement of a critical production filter in one of the breweries. This particular filter is responsible for a significant piece of the brewery's capacity. Furthermore, the filter selected by the company is normally supplied with an embedded control package, but the brewer felt that the D/3's integrated control for cold service operation would be more beneficial and easier to operate thereby eliminating the desire to have an OEM third party control system running the filter.

### NOVATECH APPLICATIONS DELIVER VALUE TO BREWING

Brewers have recognized the value of working with NovaTech on the automation of their facilities including a recent replacement of a critical production filter in one of the breweries. This particular filter is responsible for a significant piece of the brewery's capacity. Furthermore, the filter selected by the company is normally supplied with an embedded control package, but the brewer felt that the D/3's integrated control for cold service operation would be more beneficial and easier to operate thereby eliminating the desire to have an OEM third party control system running the filter.

NovaTech was called in to team with the brewer and the filter suppliers' engineering team to integrate the filter into the D/3 system that was already in place and running in the brewery. In addition, the brewer's goal for this project was to have this application and process look like the other breweries and leverage the benefits enjoyed by using their automation software standards. By using the D/3 for automation anyone with the proper privileges can monitor and/or control the process, even in the confines of their own home. As a result of the successful D/3 System automation implementation and the overall efficiency of the filter, the project was a success and will now become the model for new filters in other areas of the company's breweries.

*"D/3's open system architecture and Windows environment make it easy to automate and monitor plant operations."*

**- Company Area Manager**

## IN THEIR OWN WORDS

The following bullets were taken from NovaTech Systems' September 18, 2002 interview with the customer:

- The benefit of having D/3 as the control over a black box, is that everyone could see what was happening – from home, or corporate.
- The close working relationship with NovaTech helped tremendously. Initial programming changes were frequent and NovaTech was a huge help and open to changes that were not expected from the beginning.
- Obscure equipment failures were detected sooner and historical data was easily obtained to support the cause leading up to the event.
- This filter runs twice as fast as the one replaced. We haven't experienced any beer loss. The beer quality has improved and we are producing a more consistent end product.
- NovaTech people were ready to go—transition to IT went well and ahead of schedule.
- NovaTech knows our processes and how the plant works. Everyone was on board with using D/3 and there are many things that could have gone wrong that did not. We credit the team of which NovaTech was a major part with that success.
- The team on this project was excellent and the project came together very well.

## SPECIFIC BREWING SYSTEM EXPERIENCE

NovaTech has experience automating all areas of the brewing process. The following is a list of the specific areas in breweries for which NovaTech Engineers have successfully automated.

### Brew House:

- Brew Scheduling
- Malt Grinding and Elevation
- Mash Mixers and Cereal Cookers
- Lauter Tuns
- Brew Kettles
- Hot Wort Tanks and Whirlpools
- Wort Coolers

### Fermentation:

- Vertical & Horizontal Fermenters
- Yeast Injection
- Air Injection
- CO2 Collection

### Utility Systems:

- DE and Precoat Transfer Systems
- Glycol Chillers
- Diluent Tanks and Deaerators
- CO2 Counterpressure Systems
- Yeast Brink Management
- CIP Systems

### Cold Service:

- Fassing and Beer Transfer
- DE (Diatameous Earth) Filters
- Centrifuges
- Blending
- Trap Filters
- In Line Beer Analysis
- Glycol Coolers
- CO2 Injections
- Hops Injection
- Cold Storage Tanks
- Package Release Tanks