

PROJECT CERTAINTY



You have heard the stories — or you have told them yourself — about capital projects burdened by startup delays and excessive costs. Decades-old project methods are not helping anymore.

Today, successful integrated project execution—whether a greenfield new build, a modernization, or a migration—requires all of us to go beyond traditional thinking.

Emerson's Project Certainty approach provides a path to better project results by eliminating cost, accommodating late changes, and reducing complexity. The following stories should make it easy to envision your own future project savings and successes.



Learn more about Project Certainty.

Chemical Manufacturing (Europe)



Team Chemistry and Expertise Overcome Complexity

Time to Update

A European chemical company knew its existing control system was being phased out. After working productively with the Emerson team, management saw the benefit of migrating to Emerson's DeltaV™ distributed control system (DCS).

The facility employs a complex batch process to manufacture plastic additives used in products such as PVC. To maintain production, timing of the cutover and DCS migration was critical.

As the project team began considering how to reverse engineer the system design and migrate, they were up against a very tight 15-month project schedule and a shutdown period of 2.5 weeks for installation, SAT, and start-up. They also needed to redesign the batch implementation to be ISA-S88 compliant.

Emerson's expertise made the project less complex and met the goal of an optimized batch strategy.

Familiarity Breeds Ease

Thanks to past successes and good chemistry between the two project teams, Emerson was the organization's choice to partner with in this migration. Management trusted Emerson to use its expertise to assist in taming the project complexity and in optimizing the batch strategy.

The project would include full configuration standardization with DCS reverse engineering, configuration, virtual FAT, start-up and commissioning, plus using DeltaV Batch Analytics for process optimization for recipes and transitions.

Local and Remote Expertise

The Emerson engineering work cell, fully dedicated to the project, based enhancements of the complex batch recipes on the Emerson standards library to streamline the work and assure the use of best practices. Expertise combined with the library delivered a complex batch design that complied with S88.

Because the facility and Emerson teams had to work tightly together, they needed a way to share files and communicate effectively. Reducing the complexity of communication, Emerson's Remote Virtual Office (RVO) collaboration platform provided secure, reliable, distributed engineering of automation projects on a common infrastructure that reduced overall project schedule, cost, and risk. Project stakeholders from both companies could look at the configuration — facilitating adoption and reducing training.

The RVO environment was also used to complete a virtual FAT. The project team was able to stay at the plant and continue to manage production during the FAT. The results included reduced travel, expert Emerson guidance, and less time away from the operating plant for personnel. Testing was completed in segments; while Emerson was working on the next segment of configuration, plant personnel were testing the completed configuration. This helped ensure consistency and maintained the pace of progress.

Expert partnering and teamwork delivered the successful project on time.



Project Certainty



Emerson

North America

1100 W. Louis Henna Blvd.
Round Rock, TX 78681-7430,
United States

☎ +1 800 833 8314

Latin America

1300 Concord Terrace Suite # 400
Sunrise, Florida 33323,
United States

☎ +1 954 846 5030

☎ +1 954 846 512

Europe

Blegistrasse 21
6341 Baar,
Switzerland

☎ +41 41 768 61 11

☎ +41 41 761 87 40

Asia/Australia

1 Pandan Crescent
Singapore 128461

☎ +65 6777 8211

☎ +65 6777 0947

Middle East/Africa

PO Box 17033
Jebel Ali Free Zone - South 2
Dubai, United Arab Emirates

☎ +971 4 811 8100

☎ +971 4 886 5465

🌐 www.emerson.com/en-us/expertise/automation/project-certainty

©2020, Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

EMERSON. CONSIDER IT SOLVED.™

Learn more about Project Certainty.