

Safe. Smart. Systematic.

SURESTART[®]

YOUR PATH TO BETTER I&C
COMMISSIONING AND STARTUP

MAVERICK[®]
TECHNOLOGIES
A Rockwell Automation Company

Startup and commissioning is risky business.

It's not easy to squeeze startup and commissioning in during normal operations. And an aging workforce leaves even fewer plant personnel with sufficient experience for startup and commissioning. On top of that, due to global competition, timelines are tighter and staffing is leaner than ever.

Under these conditions, attempting to execute effective startups without a proven process in place puts your entire operation at risk—financially and physically. Most budgetary overruns and unobtainable first-year ROIs are due to missed startup dates. Worst of all, with 70% of all accidents occurring during non-routine activities such as startups, this is not an environment where you can afford to be understaffed or underskilled.

The surest way to protect against these liabilities is to work with a partner that uses a well-established process to perform startups regularly. MAVERICK Technologies is that partner. Our SureStart® solution applies the experience we've gained through 15,000+ successful projects and the efficiency we've gained through technological breakthroughs like our eStartSM application to help you get up and running safely, smartly and ahead of schedule.

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The SureStart difference:

- ✓ **50+** startup and commissioning projects per year
- ✓ **100+** I&C technicians and electricians on staff
- ✓ **200,000** hours per year of on-site technical visits
- ✓ Static and dynamic testing
- ✓ Real-time project tracking with eStartSM



To learn more,
visit sure-start.com
or call 888.917.9109.



SAFE

What's non-routine for you is everyday for us.

When you're operating the plant, your focus is on operations—as it should be. It's how you keep the plant running safely. Startup and commissioning efforts, on the other hand, are non-routine activities; in fact, most engineers participate in one only every couple of years. As a result, startups leave you susceptible to environmental and safety incidents that pose a serious risk to your business.

But that doesn't mean you have to develop a separate team for something you'll execute just a handful of times in the life of your plant. With MAVERICK's SureStart, we begin by gathering site-specific information to better define the ways in which we can tailor our process to meet your exact needs. At your request, we can review or participate in hazard and operability studies (HAZOPs) to identify and evaluate any potential risks. By increasing our awareness of possible hazards, we're able to better protect the safety of your plant and personnel throughout the process.

You'll also get the benefit of our 200,000+ annual hours of on-site experience. Our 100+ commissioning and construction managers, technicians and electricians perform more than 50 startups each year. By doing what we do best, you're able to do what you do best: stay focused on plant operations.

Reducing environmental, health and safety risks

Our team has worked together on thousands of projects, which allows us to effectively partner with your team for greater safety. Your operational expertise, combined with our startup experience, yields a safer startup environment. Better planning and solid documentation coupled with a proven structured commissioning process are the recipe for success.

Though startup and commissioning account for barely

5%
of all operations...

...it's during these types of non-routine activities that

70%
of major accidents occur.

To learn more, visit sure-start.com or call 888.917.9109.

✓ SMART

Our process shortens your time to startup.

Though on-time completion is the goal of every project, a recent study found that 91% of projects finished late. Lack of seasoned personnel and miscommunication among the startup team can lead to schedule overruns, causing operating expenses (OPEX) and capital expenses (CAPEX) to escalate to unacceptable levels. Regardless of the level of effort, without a proven, structured process, there's little hope of finishing on time.

With SureStart, our proven process takes advantage of the efficiencies we've gained through years of experience to help you start up smarter—and sooner. Our process is designed to work in parallel with construction efforts, and you can track our progress in real time with the eStart digital commissioning app. No more scheduling issues or unexpected delays. Know exactly where we are at in the project so you can make

smart decisions about how to allocate resources to finish on time or even earlier than projected.

Long-term reliability starts with smart commissioning

If commissioning is performed improperly, post-startup reliability is unlikely. To avoid high equipment failure rates and off-spec production, thorough final dynamic testing and documentation are essential.

Interruptions in the final dynamic testing can lead to incomplete interlock testing, which is an imperative step in ensuring a safe process. The SureStart process includes pre-static inspection, static checks and pre-dynamic testing to eliminate issues that can disturb the final dynamic testing or live process simulation. Solid commissioning documentation provides the maintenance team with the necessary information to maintain the new system post-startup. Our proven approach enhances long-term reliability by getting you off to a strong start.

Without SureStart,
91%
of projects
typically finish late.



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SYSTEMATIC

A proven process leads to quicker completion.

We take a collaborative and systematic approach to startups. By better coordinating the commissioning and construction processes, we can often help you reach completion ahead of schedule.

We begin by assembling a world-class team made up of your operations experts and our seasoned startup personnel. As site-specific information is gathered, we define the best ways to tailor our process to meet your precise needs. Then we thoroughly inspect, check and test all instrument and control devices to correct any issues prior to live process simulation.

After pre-dynamic testing is signed off by operations, we transfer ownership to your team for final dynamic testing and provide a core crew to support you through the remainder of the startup. Once startup is complete, we debrief plant personnel and turn over the closeout documentation so you have a sustainable, well-documented system.

1

Planning

- Identify startup & commissioning team
- Gather information
- Develop schedule

2

Implementation

- Pre-static inspection
- Static checks
- Pre-dynamic testing
- Final dynamic testing

3

Documentation

- Debrief training personnel
- Turn over closeout documentation
- Discuss lessons learned

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SIMPLIFIED



Now startup is simpler, too — with eStartSM

When outage windows become condensed, even the slightest inaccuracies in project tracking can have a serious impact. Fortunately, our digital commissioning tool, eStart, helps keep your project on track by making production more efficient and transparent than ever.

A more efficient workflow

Every project begins with data-gathering and the creation of loop folders to house all relevant instrument data and checksheets. With eStart, loop folders are created digitally, which not only reduces the time required for documentation by up to 30%, but also keeps all electronic data at the technicians' fingertips, anywhere they are.

Barcodes applied to each instrument can be scanned to record GPS data and populate a fully functional Google Maps™ layout of your facility's instruments. eStart's Near Me feature can then locate nearby instruments and identify which stage of commissioning they are in to make loop-shooting more efficient.

Google Maps is a trademark of Google Inc.

Every time a step is completed, the technician's name, date and time stamp are recorded and automatically captured, allowing the percent-complete data you see to be updated in real time. That way, you'll always know exactly where we are in the process and how close we are to completion.

Up-to-the-minute progress updates

eStart continuously monitors productivity so you can see, in real time, your projected completion date. If the schedule slips, you know right away and can proactively arrange additional resources or work on resolving specific blockers to ensure you still hit your target completion date.

up to
30%
documentation
time savings

up to
10%
loop-shooting
time savings

Get in touch today.

We're ready to help you become more competitive in an ever-changing marketplace.

sure-start.com
info@mavtechglobal.com

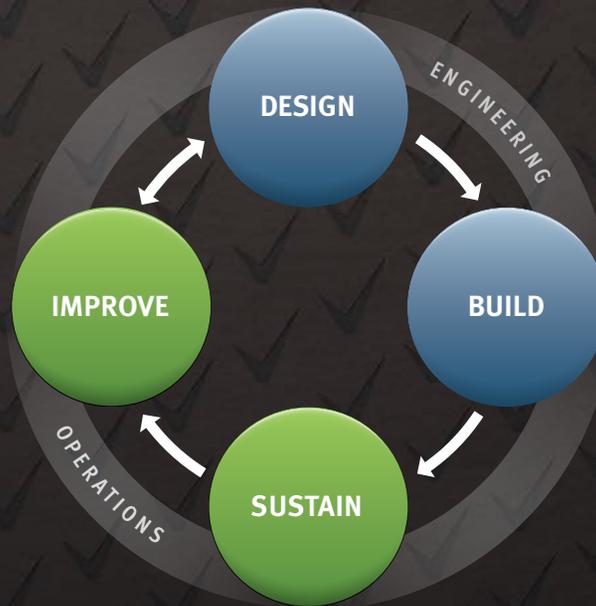


Request
a Demo.

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MAVERICK Technologies offers a full range of automation solutions for enterprise-wide lifecycle support.



About MAVERICK Technologies[®]

MAVERICK was acquired by Rockwell Automation, Inc. (NYSE: ROK) in September 2016. Founded in 1999, MAVERICK is an independent systems integrator in North America, and is a global leader in industrial automation, enterprise integration and strategic manufacturing solutions for clients across a wide range of manufacturing and process industries. Leveraging its unique enterprise-wide perspective, MAVERICK identifies suboptimal operations and improves performance for greater safety, efficiency and overall profitability. The company's people, processes and technical capabilities ensure delivery of the right solution for every project, using the most appropriate technology. Organizations around the world depend on MAVERICK's responsiveness, results-driven approach and dedication to their success. Over the years, MAVERICK has completed more than 15,000 projects in 46 countries across six continents. To learn more about MAVERICK, please visit mavtechglobal.com. To download our press kit, please visit mavtechglobal.com/press

mavtechglobal.com | info@mavtechglobal.com



15,000+
MAN-YEARS OF EXPERIENCE

15,000+
SUCCESSFUL PROJECTS

300+
PROFESSIONALS ON STAFF

46
COUNTRIES

21
U.S. LOCATIONS