

Scheduled On-Site Services -

Inspection & Initialization



Get your system off to a good start - ensure trouble-free start-up and reliable operation.

- Reduced operations and maintenance costs
- Reduced waste and rework
- Improved availability

Introduction

Problems related to installation of hardware, software and wiring can be difficult and costly to isolate and rectify once a critical process is in operation. Why gamble the functionality and reliability of your critical processes on assumptions that every aspect of the installation has been properly executed? Even a well-engineered system can fail to deliver the expected performance or robustness due to oversights or problems inadvertently created during the installation phase.

Careful planning and execution of your site installation should include inspection & verification of the installation by Emerson specialists who possess specific knowledge of product specifications and requirements as well. Our SureService specialists can identify any areas that are not compliant with the system or product specifications and will perform checks and tests that will reveal potential installation problems before startup and commissioning are attempted. Our SureService specialists will complete comprehensive checklists of all items inspected and will generate an inspection report detailing any issues uncovered and recommendations for correction.

Once inspection is completed and any required system changes have been made, our specialists can perform initialization services to assist in safely bringing your system up to a fully functional state in preparation for commissioning and plant operation.



Benefits

Reduced operations and maintenance costs. Our Inspection and Initialization service can help to identify potential problems that can then be resolved before commissioning and startup when they could have a negative effect on operations and maintenance costs. We will provide an independent assessment of your system's compliance with the site plan to identify potential areas of concern that should be addressed prior to system startup. Your investment in this service can be a fraction of the cost that a deficient system design or installation can create for your plant operation and maintenance once the system is in full operation.

Reduced waste and rework. Undetected environmental, power or grounding issues can often cause unexpected and expensive system upsets and can be difficult to track down once your plant is in full operation. Our Inspection and Initialization service can give you the assurance you need that your system meets environmental, power and grounding requirements. Also, with the addition of new equipment or facility remodeling, annual power and grounding validation becomes an important element of facility reliability. Our inspection service can identify areas that could potentially have a negative impact your plant operations. Ensuring compliance with power and environmental requirements can also help to protect your system investment.

Improved availability. With our Inspection and Initialization services, you can ensure the reliability of your system from the start to meet startup, plant productivity and cost expectations. Our SureService specialists will identify and document any potential issues so they can be corrected before your system is brought online. This investment will allow you to focus on what you do best and achieve the plant productivity and financial results you expect. Improved system availability will directly result in improved plant output and profitability.

With Inspection and Initialization, you get:

Pre-inspection planning review: The specialists at Emerson will work closely with your technical staff or designated contractor to perform a review of your system and site requirements, customer supplied single-line diagrams and construction drawings, and Emerson system installation requirements. The service scope will also be determined and will be the basis for all future work performed. Based on the information gathered, Emerson will develop specific checklists for your system and will

work with you to establish a timetable that is complementary with your project schedule.

Site Inspection and Initialization visit(s): The site Inspection and Initialization visit(s) will be performed by our SureService professionals and will include all elements identified during the planning review phase. Site Inspection and Initialization can include any or all of the following typical components as applicable to your specific system and site requirements:

- A detailed site audit of the control and I/O subsystem installation including power, grounding, signal wiring and communication (serial, Ethernet, Fieldbus, etc.) cable connections.
- Verification of provisions for maintaining proper equipment environment including temperature, air flow, humidity, vibration, contaminants, and corrosive atmosphere.
- Initialization of system power supplies, equipment and devices in a safe, controlled manner.
- PlantWeb segment checks including impedance & capacitance verification, proper shielding and placement of segment terminators.
- Initialization of all PlantWeb segments and devices including commissioning the devices to the DeltaV system to ensure proper communication and functionality.
- Review and recording of all device statistics including timing factors, signal quality, signal noise, etc.
- Checks during initialization to verify the quality of communication between system components and devices to ensure robust operation.
- Testing of the control and I/O subsystem operation performance.
- Documentation of the system performance baseline statistics.

Site visit report: Upon completion of the planning review and site inspection visit(s), we will provide a written report identifying any non-compliant items. The report will also include recommendations for appropriate corrective and preventive actions needed to correct the identified deficiencies prior to system startup.

Optional follow-up or regular visits: Inspection and Initialization is one of the SureService Scheduled On-Site Services offerings. Your SureService agreement can include other elements of Scheduled On-Site Service including Preventive and Reliability Maintenance as well as System and Application Management. Our Scheduled On-Site Services will provide you with an economical way to have regular follow-up site visits performed by our SureService professionals. These visits can include validation of the current site environmental, power and grounding conditions to ensure that the site complies with the site plan and system requirement. Each site visit

would include a written report of findings and recommendations.

Regular Scheduled On-Site Services visits will help you manage maintenance costs by minimizing the chance of unexpected emergency service calls and costly equipment failure. We can help you head off problems before they affect quality, keep equipment performing at its best, and reduce or eliminate unplanned downtime by detecting and correcting conditions that can lead to equipment failure or process upset.

Ordering Information

Description	Model Number
Schedules On-Site Services - Inspection & Initialization	(Please consult your local Emerson Process Management office for availability)

PRE-SALE QUALIFICATION: The Inspection & Initialization program is customized to each customer's unique situation and therefore requires project qualification prior to order acceptance. A written summary of the customer's requirements and expected project timing must be submitted to and reviewed by Emerson Process Management prior to generation of a quotation for services.

To learn how comprehensive SureService™ solutions address your process management needs, contact your local Emerson sales office or representative today or visit our web page at <http://www.SureService.com/>.

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www.EmersonProcess.com/DeltaV

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