DeltaV™ Preventive Maintenance

- Implement a standardized maintenance approach
- Improve process availability
- Reduce operations and maintenance costs
- Receive services executed by Emerson experts

Achieve and sustain peak control systems operational performance and reliability.

Introduction

Regular preventive maintenance is critical to ensuring the longevity and peak performance of your system.

DeltaV™ Preventive Maintenance has been created to meet your plant's specific and comprehensive needs and to address your operational and business imperatives and challenges:

- Keeping your plant operating safely, consistently and economically.
- Improving and preserving your asset reliability and investment over time.
- Optimizing your plant performance and achieving business goals.

Improve business performance and protect your automation investment with one of the largest global services and support organizations in the industry.

Emerson service specialists will perform a prescribed set of maintenance tasks using a standard and proven procedure. This expertise is supported by more than 40 years of process systems industry experience and thousands' of customers worldwide.

DeltaV Preventive Maintenance provides site services to proactively maintain and continually advance and enhance your Emerson control system installation.

With this program, you can keep your control system hardware and software maintenance requirements up-to-date while maintaining a flexible path forward to new technology and features.

Benefits

Implement a standardized maintenance approach: DeltaV Preventive Maintenance Service represents a standardized and proactive maintenance methodology provided by Emerson to help you operate your control systems safely and dependably day after day. DeltaV Preventive Maintenance changes the maintenance from a fail-and-fix approach to a predictive and preventive approach. The objective is to proactively identify shortcomings that can impact system continuity and availability.

Improve process availability:
Maximize plant manufacturing availability and avoid loss of production through proactive software and hardware support maintenance methods to match your plants operation needs. Software maintenance updates to keep equipment operating reliably and stay current with latest technology.

Reduce operations and maintenance costs:
DeltaV Preventive Maintenance will minimize the chance of unexpected emergency service calls and costly equipment failures. Emerson technical expertise will augment your capital efficiency by sustaining the useful life of the software and applications and also your plant internal staff versus additional hiring and improve your staff responsiveness and productivity.

Receive services executed by Emerson experts:
Priority access to site services specialists with deep knowledge of past proven solutions experiences can be a major time saver and will help reduce the risk of an inefficient or unreliable solution.

Service Description

Emerson will initiate the scheduling of planned maintenance visits with your plant's designated contact person. Emerson services specialists will work in advance with the customer to define the frequency and duration of service visits, specific services to be performed, and equipment to be serviced.

In general, Emerson service specialists will perform maintenance tasks during the visit focused on six core and four additional (if installed) categories related with the DeltaV distributed control system (DCS):

- **System updates and hotfix:** Activities related to overall system integrity, reviewing applicable KBAs, Microsoft patches, Anti-Virus definitions, DeltaV hotfixes and DeltaV backups.
- **Controllers:** Activities related with review of controller's hardware and software, communications integrity, redundancy and basic health check values.
- **Cabinet:** Maintenance tasks related to cabinet voltage analysis, power quality and general revision of the DeltaV DCS hardware inside the cabinets.
- **Workstations:** Activities related with communications of the workstations, overall integrity, cleanup, software, hardware, free disk space, hotfixes/KBAs, alarms and events backups.
- **I/O Subsystems:** LED indicators, check overall integrity, check properly connected IO carriers and cables.
- **Network:** Physical inspection of cabling connectors and cabling integrity of Smart Switches and Firewalls (undamaged/unstressed).
- **DeltaV SIS™ Maintenance:** Activities for the Logic Solver SLS1508 and SIS Net Repeater, including status of communications, LED indicators, communications, check all channels.
- **Backup and Recovery:** Checks to make sure Backup and Recovery setup is working as configured, if installed in the system.
- **Integrated Patch Management:** If subscribed to Integrated Patch Management, ensure that the installation is working properly.
- **Virtualization:** If there are virtualized workstations/ servers, maintenance activities related to the various components will be performed.

During each service visit, specialists will log all findings and observations and generate a standardized report. The results of the preventive maintenance routines as well as the standard report will be sent to the SureService Portal, where the customer will be able to visualize the health checks conducted on the different system devices and the corresponding recommended action plan identified during the visit to improve lifecycle, support and maintenance of the control system.

Service Availability

DeltaV Preventive Maintenance is a Lifecycle Services offering for DeltaV DCS running on versions 9.3.1 (English), 10.3.1 (English), 11.3.1 (English, Russian), 12.3 (English), 12.3.1 (English, Russian), 13.3 (English), 13.3.1 (English, Russian), 14.3 (English), 14.LTS (English), 15.LTS (English) and 16.LTS (English) (Windows Server IoT 2022 Standard and Windows 10 IoT Enterprise LTSC 2021). The Guardian Software & Solutions portfolio consists of service modules, each designed to address specific support requirements. These modules can be combined to customize a support program for your plant that is tailored to fit just right, meeting your support needs while providing value and peace of mind.

Ordering Information

Description	Model Number
DeltaV Preventive Maintenance	VE9053

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