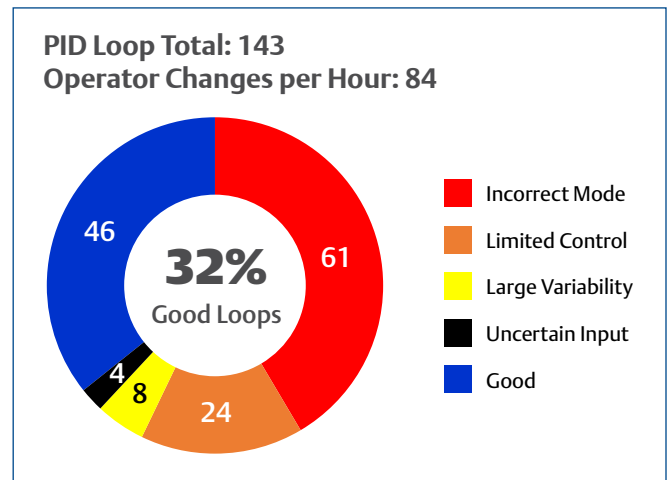


# DeltaV™ Loop Service

- Gain insight from industry experts into your Guardian Control Performance Score
- Get recommended actions to improve your Control Performance Score
- Receive regular feedback from Emerson Control Performance Experts



Control Performance Score available in Guardian

## Introduction

The Guardian Control Performance Score can help you determine how well your Control Loops are performing on your DeltaV System. With DeltaV Loop Service, you will have additional resources at your disposal to help improve your Control Performance Score.

## Benefits

- Minimize operator interventions on site
- Maximize number of automatic and well performing loops
- Identify bottlenecks
- Investigate instrumentation and tuning issues
- Improve product quality and throughput

## Service Description

With DeltaV Loop Service, our expert Control Performance Consultants help you interpret the results of your Guardian Control Performance Score and give you actionable recommendations which will improve your score. We will review your score on a monthly basis and help maintain and improve your score for months and years to follow. Services include:

- **Initial On-Boarding with a consultant to understand your process and operating objectives**
  - P&ID review
  - Phone interview with plant personnel
  - Control Performance questionnaire
- **Configuration Review**
  - Addresses common configuration issues such as default Normal Mode, default Variability Index Limits, default tuning and other common PID configuration parameters
  - Identify and prioritize the loops that have the greatest impact on the bottom line. Establish control performance roadmap which focuses on the bottom line benefit.

■ **Regular Control Performance Reports**

- Identify control loop performance issues, bottlenecks and instrumentation issues. Suitable corrective actions in priority order.
- Frequency is adjustable based on your needs, but typically would be provided monthly.

■ **Access to Control Performance Experts**

- Live support via phone and video conference
- Review of process data and tuning parameters
- Continuous improvement recommendations

## Requirements

DeltaV Loop Service requires consistent and scheduled uploads of your Guardian Registration File. These can be sent manually via email or automated using the Guardian Registration Utility. Emerson can help you set up an automatic schedule on your system.

## Ordering Information

DeltaV Loop Service is an extension of your existing Guardian Support Contract and will provide ongoing control loop consultation which can be renewed on an annual basis.

Consult your local Emerson office or Emerson’s Control and Operator Performance Center of Excellence for availability and quotation.

	Proposal Control Performance Analysis	February 2020
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Research has shown that in most plants two thirds of all loops are underperforming.

Top Quartile performers focus invest in increasing loop performance on and typically receive average gains of:

- 4-8% increase in throughput
- 5-10% reduction in energy costs
- 40-80% reduction in quality variation
- 1-5% increase in equipment availability

For more than 30 years, Emerson’s control performance work, and the evaluation of thousands of control loops, suggests 4 primary classifications of loop performance. 20% of the control loops evaluated perform well and reduce process variability. The remaining loops increase process variability due to process or control design issues, loop tuning problems, and control valves that are underperforming. Each plant is different, but the numbers don’t change significantly.

Symptoms

32% Good Loops

Causes

Typical Loop Performance

Chemical Production Plant  
0001-0002-9868  
A1 Chemicals  
Austin, TX, United States

An example of automatic loop analysis shows numerous suggestions for a sample of 6 loops.

Tag	Description	Suggestions
AIC1051B	FLUE GAS PERCENT O2	Incorrect Mode, Tuning, ARW Issue, Narrow OP Range
PIC2601	PROCESS GAS TO FLARE	Tuning Issue, Limited Control
FIC2001	FUEL GAS TO BURNERS	Tuning Issue, Uncertain Input
LIC8001	DEAERATOR LEVEL CONTROL	Check Process Type setting (InSight)
FIC8401	DEMIN WTR P MIN FLW BYP	Incorrect Mode, Uncertain Input, Incorrect Mode
PIC2601	REFORMER FUEL GAS SUPPLY	Loop is Good

DeltaV Loop Service Detailed Report

## Related Products

- DeltaV InSight

Description	Model Number
DeltaV Loop Service - Small scale	COP-GLS-S
DeltaV Loop Service - Medium scale	COP-GLS-M
DeltaV Loop Service - Large scale	COP-GLS-L

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