

Regulatory Control Stabilization

“Reduce up to 30%* standard deviation of controlled variables”

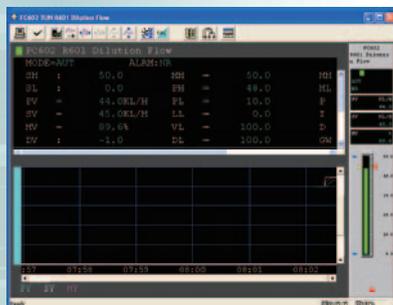
Why is regulatory control stabilization important?

Plant safety is paramount to the continuance of production operations and is drawing increasing attention globally. All process industries now recognize the importance of regulatory control stabilization as the baseline for plant safety. To achieve stability it is required to evaluate and improve the effectiveness of the regulatory control loops (e.g. control configuration, PID tuning, instrumentation). Achieving regulatory control stabilization is a pre-requisite and paves the way for advanced process control (APC) implementation.



What are the advantages?

Yokogawa's 30+ years of hands-on experience as a global supplier of process automation solutions has provided a wealth of knowledge and understanding of regulatory control loops. Yokogawa can deliver first class consulting services in a diverse range of industries and processes using its proven standardized procedures and methods.



* Actual results will depend on the installation.

Regulatory Control Stabilization

DMAIC

Yokogawa's regulatory control stabilization service is based on standardized Six Sigma DMAIC methodology. This provides clear and effective steps to achieve a defined target while ensuring consistent and high levels of service quality.

Define <small>step 1</small>	Measure <small>step 2</small>	Analyze <small>step 3</small>	Improve <small>step 4</small>	Control <small>step 5</small>
<ul style="list-style-type: none"> • Determine priority of improvement <ul style="list-style-type: none"> - Follow-up to set point change - Response to disturbances • Define target value for improvement <ul style="list-style-type: none"> - within X seconds - within Y% of deviation 	<ul style="list-style-type: none"> • Acquire necessary information regarding target control loops <ul style="list-style-type: none"> e.g. <ul style="list-style-type: none"> - P&ID - Process overview - Control strategy - PID parameters - Tag range - Loop configuration - Sensors - Analyzers - Control valves - Control KPIs - Historical trends 	<ul style="list-style-type: none"> • Assess current control performance • Identify root causes of problem • Decide proper countermeasures <ul style="list-style-type: none"> e.g. <ul style="list-style-type: none"> - Change of loop configuration - Change of PID parameters - Replacement of field instruments 	<ul style="list-style-type: none"> • Take decided countermeasures^{*1} 	<ul style="list-style-type: none"> • Evaluate improvement effect • Report on results of service

*1 DCS/field engineering work (e.g. change of loop configuration) will be proposed as required.

*2 This service is provided by executing the above five steps of the DMAIC cycle.

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The clear path to operational excellence

SEE
CLEARLY

KNOW
IN ADVANCE

ACT
WITH AGILITY

VigilantPlant is Yokogawa's automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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