

# Asset Optimization

Instrument & Valve Services



**Managing the ups and downs of turnarounds.**



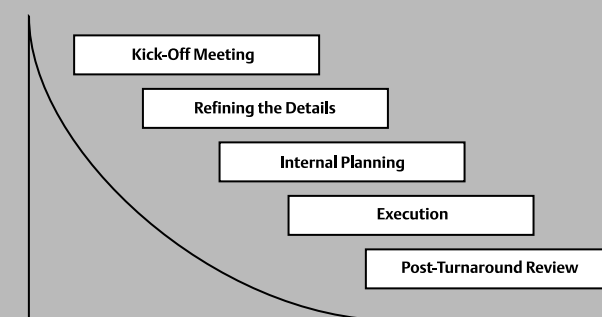
## Conduct safer, more efficient turnarounds with expertise from Emerson.

If a turnaround isn't planned and conducted properly— with quality workmanship on calibrations and repairs— its benefits can be compromised. Poor planning can result in unidentified critical assets and overlooked processes, while poor workmanship could cause lost production or even worse – safety and environmental risks. Without proper planning and execution, you could end up having more downtime than absolutely necessary – losing production, risking fines and hurting profitability.

Fortunately, Emerson's Instrument & Valve Services can reduce some of the load by helping you manage the efficient turnaround of your control processes. Our experience in asset management will enable you to get the most from your maintenance dollar.

### Emerson Turnaround Management:

A Proven Process for Reliable Results



Our five-step process ensures that everyone involved with your turnaround understands what's expected of them.

1. *Kick-off Meeting* — We define the broad scope of the turnaround and set goals for key plant personnel.

2. *Refining the Details* — The details of the turnaround and final scope are clearly established.

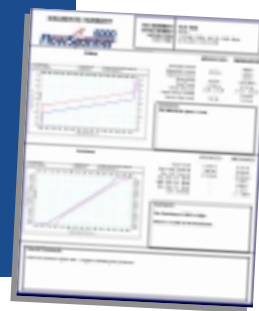
3. *Internal Planning* — We work with you to plan the execution down to the last detail.

4. *Execution* — We complete the designated work safely, on time and to your satisfaction.

5. *Post-Turnaround Review* — Together, we review the work that was completed and ask for your feedback.



FlowScanner diagnostics generate a report detailing valve assets that need repair/replacement. This results in a reduction in valve "pull" ratio of 20% - 40%, depending on the condition of those valves.



We can help you manage your turnaround when and where you need us. Then you can talk about how great your people are because it's the planning and the people that differentiate Emerson from the independents.

**Our people are thoroughly professional.**

From the moment they arrive on site, our experienced technicians adhere to the highest standards of professionalism and safety.

Every Emerson Instrument & Valve Services technician is trained to OSHA standards for personal and environmental safety.

- Each technician receives training in more than 60 Environment, Safety and Health (ESH) procedures.
- Emerson's Emergency Modification Rate (EMR) is one

of the lowest in the industry. In addition to an unwavering commitment to safety, our techs possess years of maintenance applications experience and the most advanced proprietary, diagnostic tools and solutions in the industry.

- Emerson technicians are factory-trained on Fisher®, Rosemount®, Bettis® and MicroMotion® units.
- Our turnaround teams work with some of the most advanced diagnostic tools available including AMSTM Suite: Intelligent Device Manager, HART® or Foundation Fieldbus tools, AMS ValveLink® and the FlowScanner™ 6000 Valve Diagnostic system—enabling us to quickly identify which valves and transmitters in your processes need attention.

Finally, when they're finished, our technicians leave something valu-

able behind—expertise. Through our training programs, we can transfer knowledge to your in-house personnel and share what we know about operations, troubleshooting, diagnosis and resolution. As a result, your critical plant staff can benefit from Emerson expertise long after the turnaround is over. And because they belong to a network of more than 40 repair centers in North America, our technicians are never far away when you need them.

**And our technology is professionally thorough.**

Emerson's mobile service trailers are a fully equipped, fully customizable "workbench on wheels" that can be parked on your site, providing the exact tools needed to diagnose, calibrate, remove, repair and replace the instruments

and valves in your processes.

- Equipped with lathes and mills for machining, welding capabilities, workbenches, a parts inventory, even an office with Internet access for turnaround project managers.
- Scalable as necessary to complete your turnaround in a timely fashion.

With our Instant Repair valve service, even obsolete and hard-to-find valves can be repaired by replacement in a matter of hours. Just tell us what you need and we'll ship you an Encore® valve for your specific application. When it arrives, remove your valve and replace it with the Encore unit—at the very same time. Then ship your old valve back to us.

- Your problem can be solved with a single pull-and-install work order.
- Your repair or process downtime is cut to the bare minimum, lowering your overall costs.

**Turnarounds are just the beginning.**

Emerson's products and services run broad and deep, and you can leverage them in any combination to help you run a more profitable plant.

An Emerson project manager, for example, can deliver valuable insight and experience during turnarounds and startups.

Between turnarounds, we can keep your control processes running at peak efficiency through scheduled maintenance of your valves and instrumentation.

And on a big-picture level, Emerson's asset optimization technology can help raise the productivity of even aging plants.

Our AMSTM Suite of technologies—a core component of PlantWeb® digital plant architecture—uses predictive intelligence to improve availability and performance of production assets including mechanical equipment, electrical systems, process equipment, instruments and valves. Plants leveraging our asset optimization

services have increased production from 2% – 5% and decreased their energy costs by 15% – 20%.

Every Emerson product and service is backed by people who are committed to meeting customer needs and exceeding their expectations. Maybe that's why Emerson Process Management has been voted best supplier of process management technologies and services by the readers of Control Magazine for an astounding 13 years in a row.

So, the next time you schedule a turnaround, also consider turning around the way you think of your suppliers. Call Emerson's Instrument & Valve Services today. We can be there before, during and after your next turnaround, helping you to maximize the potential of every asset in your plant.



**Emerson Process Management**

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