Global Project Execution Virtual Capabilities

In these uncertain times, we understand you are faced with unique challenges when it comes to maintaining – let alone enhancing – your sites, equipment, and workforce. Emerson offers a variety of remote and virtual project service capabilities that can help you.

Cloud Engineering & Remote FAT

Emerson's **Cloud Engineering collaboration platform** provides secure, reliable, distributed engineering of automation projects on a common infrastructure that reduces overall project schedule, cost, and risk. Accommodate changes in teamwork and remote testing by increased collaboration with multiple resources working on the same project, independent of location.

Remote Software Factory Acceptance Test Benefits:

- Reduce cost by minimizing travel
- Enables remote testing of third party interfaces
- Does not require project hardware for software testing or operator training

Video Inspections

Video Inspections optimize project schedules by reducing mod/de-mob time for inspections. Virtual inspections leverage IT technology to provide options for remotely performing inspections and witnessing equipment tests.

Video Inspection Benefits:

- Improve manufacturing schedule with less waiting time for mob/de-mob inspections
- Reduce T&L costs for inspections
- Improve inspection records

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Virtual Commissioning

Virtual Commissioning uses the Digital Twin (or Multi Purpose Dynamic Simulator - MPDS) is a tool to optimize the plant commissioning activities by reducing commissioning efforts. The Digital Twin provides a realistic representation of the asset and reduces commissioning efforts by enabling *virtual* verification and/or validation of:

- **Start-up and shutdown procedures**
- **Complex control algorithms**
- **Operating procedures**
- **Dynamic alarm suppression algorithms**
- **Tuning of control loops**
- **Development of advanced control strategies**

Deviation Tracking

The Deviation Tracking App supports paperless Project Execution and provides a digital solution to record and follow-up up on deviations identified during the internal and acceptance test stages of projects.

Benefits include:

- **User friendly interface on PCs and Mobile Devices**
- **Efficient communication between test and implementation teams, wherever they are located**
- **Enforces consistent sign-off and approval steps**
- **Central repository for project metrics, analysis, and continuous improvements**
- **Supports Remote FAT**

For more information, please visit: www.emerson.com/projectcertainty

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