Mark* VIe Upgrade

Product Description

- Mark* VI controllers are currently nearing the end of their life cycle and will soon become legacy units. Certain parts of both the Mark VI and GE Fanuc 90-70 controllers are already discontinued/obsolete.

- New Mark VIe combines Mark VI and GE Fanuc 90-70 into one controller, increasing service life beyond 2026.

- **Significant I/O interface changes:**

  - I/O interface no longer hardwired to controller, instead connected via Ethernet.

  - New 13 panel controller will incorporate the I/O interfaces from the old Mark controller.

- **The Mark VIe upgrade also includes:**

  - New smaller, more compact, and more efficient UCSB CPU.

  - Windows 7 software upgrade (from Windows 98, 2000, NT, and XP).

  - Innova* replaced with touchscreen COMARK* or tower desktop HMI.

  - Latest core software logic upgrade.

  - New CIMPLICITY* GUI.

  - Integrate single software application including: ControlST*, Work stationST*, and Workstation Alarm Viewer.

Customer Value

- **I/O Ethernet capability has significant benefits:**

  - Increased range of installation.

  - Increase network speeds and reliability.

  - No longer limited by controller location, simply by site wide intranet system scope.

- Alarm Viewer and other trending applications have improved inter faces, much more user friendly.

- Decentralized I/O modules utilize local processors, creating a net increase in process computing power and delivering higher performance.

- Lower repair time because I/O modules can be replaced individually without disturbing entire system.

- The multi system integration allows one easy to use, centralized system to control and monitor many turbine aspects. Also easier trouble shooting.

- **The new software upgrades optimize NOx and SPRINT Systems (see SPRINT page for full benefits):**

  - Increased turbine power output.

  - Better engine efficiency and lower heat rate.

  - Security updates to meet NERC/FERC regulations.
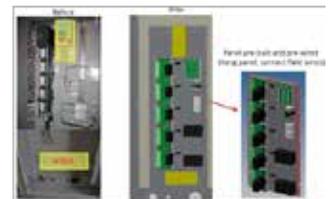
Applicable Units:

LM6000	✔	LM2500	
LMS100		LM5000	
LM1600		TM2500	

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The Mark VIe controller will replace certain parts of the TCP shown above

The remote generator cabinet will also have panel changese

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