

# Equipment conversion FAQ for the Mark III high-performance BOP control system



## What equipment needs to be converted on the BOP control system?

The following subassemblies are required for the conversion to support surface-to-subsea telemetry and associated test equipment:

- yellow subsea electronics module (SEM)
- yellow riser control box (RCB)
- blue SEM
- blue RCB
- communications and power distribution panel (CPDP) A
- CPDP B
- event logger
- portable electronic test unit (PETU)
- Microsoft® Windows® 10 human machine interfaces (HMI)s

## Mark III™ High-Performance BOP Control System Conversion Scope

Control System	Description
Communications and power distribution panel (CPDP) A*	Siemens® 1517H programmable logic controller (PLC) replaces the existing Siemens 300 series PLCs.
	Digital subscriber line (DSL) modem replaces the obsolete frequency-shift keying (FSK) modem.
CPDP B*	Siemens 1517H PLC replaces the existing Siemens 300 series PLCs.
	DSL modem replaces the obsolete FSK modem.
Driller's control panel (DCP)***†	WinCC® Unified Platform replaces Wonderware® system.
Transmission Control Protocol (TCP)***†	WinCC Unified Platform replaces Wonderware system.
Supervisor control panel (SCP)***†	WinCC Unified Platform replaces Wonderware system.
Event logger*†	WinCC Unified Platform replaces Wonderware system.
Subsea electronics module (SEM) blue or yellow*	Siemens fail-safe PLCs replace SEM-embedded control components.
	DSL modem replaces the obsolete FSK modem.
Riser control box (RCB), blue*	Remote input/output modules replace riser control card.
RCB, yellow*	Remote input/output modules replace riser control card.
Portable electronic test unit (PETU)*†	Siemens PLC and DSL modem replace existing FSK modem.

\* Listed part numbers include all hardware components related to Mark III high-performance system conversion, utilizing the same enclosures with minimum modification on the SEM assemblies.

\*\* SLB representative and engineering will conduct a feasibility study to generate a final quote.

† Windows 10 computers are required for this conversion. Contact your SLB representative for Engineering Bulletin (EB) 988 D.

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