

10. Quality management systems (1)

QUALITY MANAGEMENT SYSTEMS SUPPORT AND ENHANCE COMPANIES' QUALITY ASSURANCE PROCESSES USING DATA AND DIGITAL TOOLS.

> The challenge

Excellerate faced several challenges in its quality control processes for the assembly of modular electrical buildings (MEB) for data centres. Where out-of-calibration torque wrenches were used, or paperwork related to torque logs and QC signoffs was lost or inaccurate, rework and re-documentation was both time-consuming and necessary.

> The technology solution

The Cumulus Quality Execution System integrates the client QA and contractor QC into a single workflow.

Excellerate deployed Cumulus with Bluetooth-enabled (BLE) torque wrenches to accurately record applied torque values. Field workers used the Cumulus mobile application to follow guided workflows, ensuring proper documentation of each torque application. Integration with BIM 360 software ensured seamless documentation upload.

> The benefits

As well as faster module production, Cumulus eliminated issues with lost paperwork. Document Control personnel could easily review and upload Cumulus PDFs to the client's BIM360 software, saving time and reducing errors.

> The lessons learned

Wider adoption requires the support of senior management and integration with existing client systems. A trial period helped build trust.



Project:

Data centre module fabrication

Contractor:

Excellerate, a division of Faith Technologies

Technology provider:

Cumulus Digital Systems



“Wider adoption requires the support of senior management and integration with existing client systems.”