

Challenging Calibration Procedures Are Successfully Streamlined by PlantWeb® Services



RESULTS

- Reduced manpower needed on required instrument calibrations
- Completed Quality Assurance validation successfully
- Continued uninterrupted onsite production of high quality pharmaceuticals



APPLICATION

Periodic calibration of 400 HART® field devices and creation of supporting documentation

CUSTOMER

A major pharmaceuticals producer in the UK

CHALLENGE

This pharmaceutical factory, situated in the picturesque Lake District, County of Cumbria, England, standardized on Emerson's DeltaV™ digital automation system several years ago and implemented it using the ProfibusDP communications protocol and Stahl remote I/O. Managing the calibration of the HART field devices and loops within a clean room environment and documenting the results was very challenging for plant personnel. Yet, demonstrating the integrity of measurement instruments is required in the pharmaceutical industry.

“The PlantWeb architecture helps us bring the applications together so our workforce can best utilize the technologies we deploy.”

Process Manager
Pharmaceutical plant in the UK

SOLUTION

Emerson's AMS™ Suite: Intelligent Device Manager, integrated with the DeltaV system, is ideally suited to support field calibrations using a documenting calibrator. Customized calibration routes are easily downloaded to the calibrator from a central AMS Device Manager workstation in the process environment. This, in itself, saves time for maintenance personnel by eliminating the need to locate calibration information on each device and load the calibrator. Once the field calibrations are completed, all data is quickly uploaded to the AMS Device Manager database for historical record and future reference.

Emerson's PlantWeb® Services were employed to train plant personnel on using this technology and validating the system within Good Automated Manufacturing Procedures (GAMP). The experience and knowledge of the Emerson personnel were extremely beneficial in helping the customer apply the calibration functionality for greatest effect, including Quality Assurance validation for regulatory agencies.

By applying technology to implement best practices, this production unit is successfully meeting current economic challenges, whereas some units at this site have actually been shut down. By reducing the manpower needed for instrument calibrations and by maintaining uninterrupted production, this unit continues to operate during these difficult economic times.

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AMS Suite: Intelligent Device Manager powers PlantWeb through predictive and proactive maintenance of intelligent field devices to improve availability and performance.

