

## Case Study

### TAQA Bratani Ltd – Configurations and Customisations to Orbit CMS Software to Support Brownfield Modifications, As-Building, and Technical Query Workflow



#### Scope

TAQA UK's onshore engineering department identified a need for a 'workpack'-focused completions management system which would enable them to streamline their workpack creation process and provide more visible "live" progress of offshore construction, commissioning activities on their 5 assets in the North Sea. The areas in need of improvement included:

- Onshore 'workpack' generation and collation
- Visibility of offshore progress
- Tracking status of as-built drawings
- Tracking progress of technical queries

#### Project Challenges

An investigation into current practices identified the following key areas where Orbit CMS functionality already existed or could be modified to suit the client's requirements:

- 'Workpacks' taking weeks to pull together, relying on a great deal of manual input and visual verification of draft content, check sheets and certs required for scope manually created and inserted into pack
- Progress and verification of construction and commissioning activities not visible until wet signed paper pack flown back from offshore, often weeks after closeout
- Technical queries processed in CMS supported basic functionality – TQs are either open or closed, in reality closure of a TQ or EQ requires a gated workflow of up to 8 stages with up to 3 signatories accepting the response.
- Further modifications to the CMS Drawings Register would greatly improve the efficiency of the closeout process

Working with the client produced functional design requirements for modifying the relevant sections of Orbit's codebase where needed, and the work was scheduled into our development cycle for inclusion in the next release of the software. Other goals were achieved with minimal configuration of existing functionality.



Courtesy of: TAQA Global

## Successes

- Through configuration of Orbit's 'workpack' template and workflow editor, it was possible to reduce the time taken for creation and collation of a full 'workpack' from weeks to days
- Inclusion of fully pre-populated checksheets into 'workpack' achieved with a small number of clicks
- User account based authorisation of 'workpacks' at 'checkprint' and review stages providing auditable history of content verification
- Immediate visibility of any user's actionable items through My Orbit module launched on application startup, for example showing workpacks requiring that user's authorisation to proceed
- Implementation of the Orbit document completion service allowed for automated PDF 'checksheets' processing by email from offshore resulting in live progress updates of construction, commissioning and closeout activities, changes immediately visible in reports and dashboards
- New fields added to drawings register capturing metadata fully supporting as-building and closeout provision
- Multiple customised dashboards created to provide full project overview month-by-month of 'workpack' progress and closeout, status of drawings by 'workpack' and technical query tracking
- Modification to the TQ workflow provided fully traceable status path from raising through to closure and acknowledgement, verified at each stage by design owner, design checker and job responsible engineer

**If your project is not going to schedule, get in touch with OCCMS today and see how we can help get your project back on track: [info@occms.com](mailto:info@occms.com)**