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# AMEC UK

## Fusion Powers Collaborative Information Processes

### AMEC a leading provider of total life of asset services to oil and gas clients

AMEC is a leading international provider of total life of asset services to clients in the upstream oil and gas industry. AMEC Natural Resources manages projects for British Gas, Shell, BP, ExxonMobil and many others.

#### **Investigating step changes in information management efficiency to reduce cost on major projects**

AMEC Natural Resources exchanges documents and data continually with customers, each of whom may use very different structures, processes and systems. A typical AMEC Engineering, Procurement and Construction (EPC) project manages as many as 100,000 documents and may result in over 2.5 million single document transactions. If each of these transactions were to take 10 minutes this process could consume around 400,000 person-hours.

#### **Just how do you cut time and cost safely from complex, multi-contractor projects dispersed across centres of excellence around the world?**

AMEC Natural Resources set up an Information Management business group comprising line managers and document controllers who manage the collection, management and distribution of project data and documents to support the Information Management process. Their goal was to integrate AMEC's data and document technologies into a seamless Information Management Model (IMM) and to implement the IMM as a standard on all major projects.

#### **A proven understanding of industry requirements**

Sword CTSpace has been providing and supporting solutions in the Oil and Gas Industry for over 17 years and has an excellent understanding of their requirements for document management & workflow solutions.

AMEC Natural Resources first used a fore-runner of Fusion on a project at British Gas and internally for accounts, human resources, bids & proposals and work unit tracking. AMEC and Sword CTSpace Oil and Gas projects include Shell SEIC (Sakhalin Island, SHI, Korea), Shell SEPCO (Bonga, Nigeria, ACG3 (BP), Caspian Sea) De Reuter (Dutch Petro, Canada), BritSats (Capital Project and Integrated Services) and BP Federal and AMEC Design Engineers in Halifax and St. John's in Canada.

#### **Document management across multiple execution centres across the globe**

AMEC users across geographically dispersed locations access documents held within the Fusion repository via a browser-based client application. Each project has its own web space that includes access via a link to DM-Net. On-line induction training takes just 10

#### **Benefits**

Access to information 24 hours a day, 7 days a week

Provides the owner operator with early visibility of project work and greatly reduces the work required at handover

Automatic updates to the customers own document management system

Users are more knowledgeable about information that exists to support their current work activities

Fusion enables distribution of work to appropriately skilled staff and everyone sees the same version of a document

On-line induction training takes just 10 minutes

Document Controllers receive additional dedicated training

*“AMEC can knock down the ‘wall’ of information volume which can frustrate a project handover’s success. Receiving data in the right format, at the right time adds value to the quality and completeness of the data.”* Pete Mayhew, AMEC UK

minutes, as 95% of users just need search / view / print capabilities. Document Controllers receive additional dedicated training on DM Desktop, Sword CTSpace's Windows client application.

A typical project has multiple execution centres in multiple countries. All types and formats of documents are stored in the Fusion repository - drawings, SOPs, P&IDs, Maintenance Manuals, Vendor Documents, Structural reports etc, as well as non-project documents such as management documentation. Most documents are indexed against an item's tag id, and Fusion's 'pathwalk' function allows users viewing a tag record to find all related information quickly.

The key drivers for an AMEC system are:

- Storing / viewing & printing design documents
- Approving vendor documents
- Producing electronic workpack for implementing offshore & on site
- Handing over deliverables to clients
- Managing client documentation

End customers also have access to the documents, either through direct access to Fusion, or via a direct link that automatically updates the customers own document management system.

#### **The preferred solution for technical document management on all projects**

Fusion was configured to meet AMEC's requirements, but no customisation of the code was required. This is typical of a Fusion implementation - code customisation occurs only when a change has no impact on other existing customers, and code changes are always included in the base product from that point onwards.

Fusion also interfaces with other AMEC Systems such as DCS System for Document Distribution, Procurement System for the Vendor docs requested, and Commercial System for Invoice Data and Certification System.

The statistics on the document register for a typical project are as follows:

- 350 Workpacks produced & distributed
- 10,000 Invoices attached per month
- 11,000 Document Management Service Requests
- 12,000 Invoices viewed per month
- 22,000 Technical Documents Transmitted
- 34,000 Technical Documents attached in 2003
- 43,500 Technical Documents viewed in 2003

AMEC has access to information 24 hours a day, 7 days a week. Users are able to locate more information that is relevant and

relationships between different types of information allow users to become more knowledgeable about information that exists to support their current work activities. Fusion allows distribution of work to appropriately skilled staff and everyone sees the same version of a document.

#### **Adding value to the completeness and quality of data**

A typical AMEC project can involve 100,000 documents, of which 50,000 - 80,000 may be handed over to the customer. One of the key issues raised by the Information Management business group was to improve the project information methodology.

For example, the 600 Fusion users at the BP Federal System project use the IMM for:

- Design Documents
- Vendor Documents
- Client Reference Documents
- DCC Task Register
- Invoice Processing
- Certification Register
- Unit Tracking Register

The traditional approach to project handover involved a 'one off' information collection, content and quality check, and compilation at the end of the project, which added no value through the project phase. Historically this type of exercise was extremely time consuming and often inaccurate, and sometimes lasting as long as 3 months with typical costs between £500k - 1.0 M per handover.

AMEC are now able to update dynamically, regardless of their customer's EDM system, during the course of a project, which gives the owner operator early visibility of project work and greatly reduces the work required at handover.

The new approach is to gather information, and check its content and quality incrementally throughout the life of the project. This method adds value by enabling information sharing through project phases and improves quality by ensuring controlled validation of information. Removing the need for end of project extension periods reduces costs and the quality of the information handover typically improves in the first year of operability.

"AMEC can knock down the 'wall' of information volume which can frustrate a project handover's success", explains Pete Mayhew. "Receiving data in the right format, at the right time adds value to the quality and completeness of the data."

Following the successes of the IMM, AMEC and Sword CTSpace have signed a worldwide enterprise licence agreement and a 3-year technical support and services contract for Fusion.

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