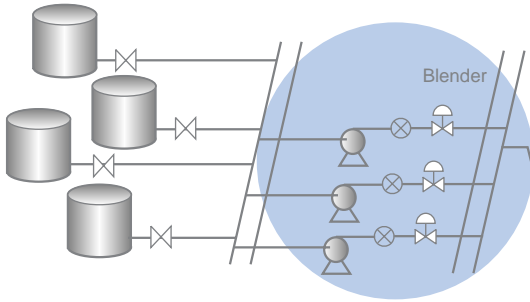




fitOMS BLEND

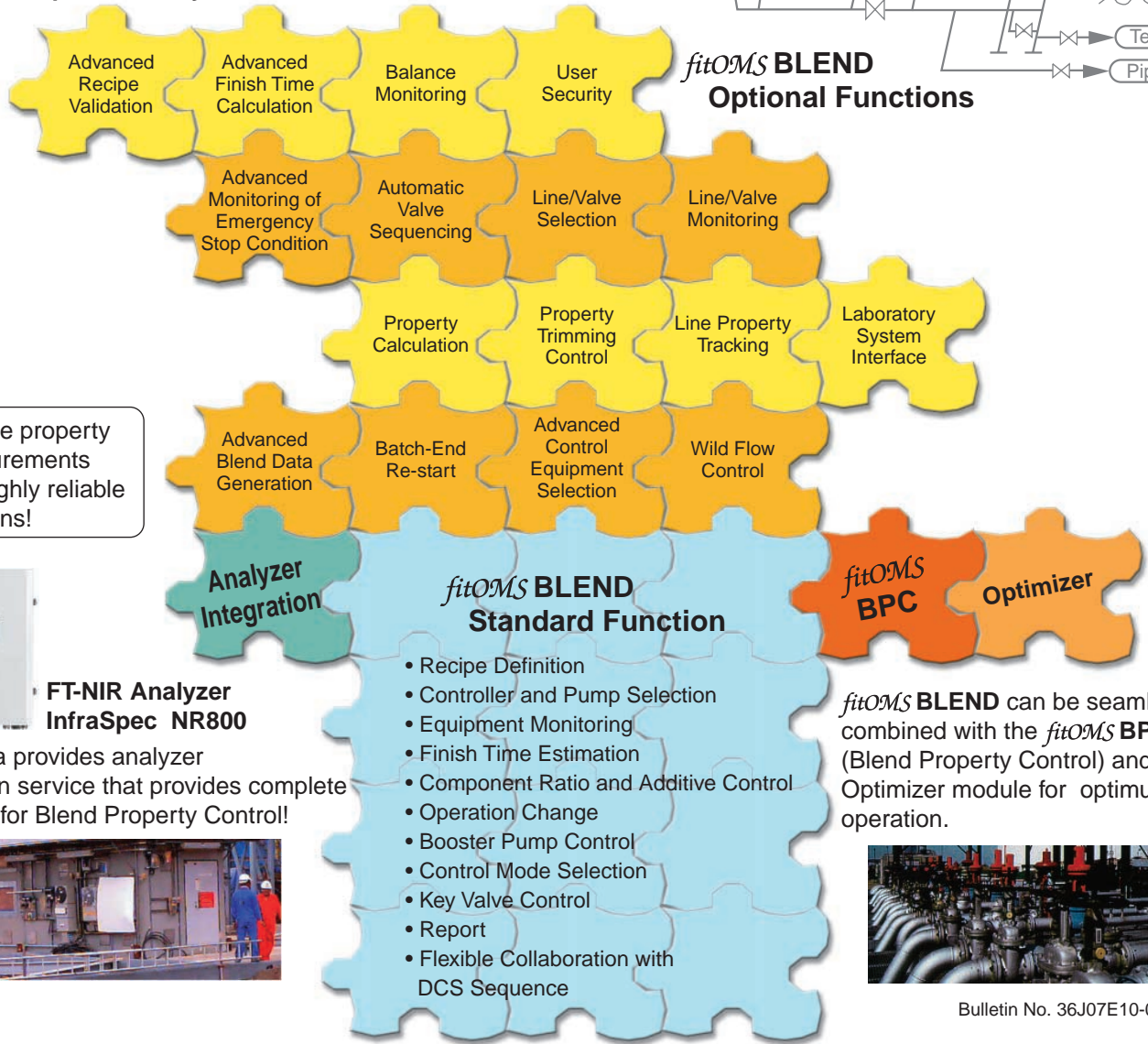
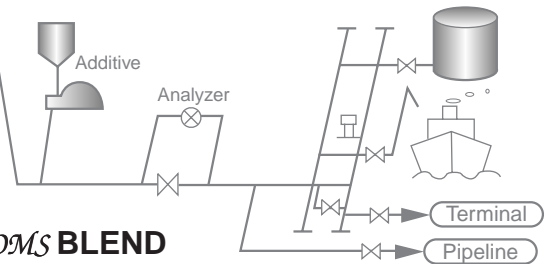
Future Integration Technology for Oil Movement System

Yokogawa proudly announces the release of our new concept system, *fitOMS* (Future Integration Technology for Oil Movement System). The *fitOMS* is a module series which offers solutions in the offsite process. *fitOMS BLEND* is one of the modules in the series.



Fulfilling current needs – anticipating those of the future

-based on BLEND (Blend Ratio Control Module) Standard Function, *fitOMS* lets you add an unlimited number of options to fit your scheme and schedule.



Multiple property measurements and highly reliable solutions!



FT-NIR Analyzer InfraSpec NR800

Yokogawa provides analyzer integration service that provides complete solutions for Blend Property Control!



fitOMS BLEND can be seamlessly combined with the *fitOMS BPC* (Blend Property Control) and Optimizer module for optimum operation.



Bulletin No. 36J07E10-01E

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fitOMS BLEND Optional Functions

Safty and Efficiency

Advanced Recipe Validation

Recipe can be validated before operation start to ensure that destination ullage is sufficient to receive the volume to be blended, that the volume of the component available is enough to be sent to the blender and that the selected equipment is suitable for the target flow rate.

Advanced Finish Time Calculation

Calculate the expected time when the source tank level becomes LOW and when the destination tank level becomes HI to indicate when and what shall be done by the operator.

Balance Monitoring

The data of volumes in component source tanks and destination tanks, and that of flow meter readings are compared to detect any inconsistencies.

User security

Log in users can be security protected.

Advanced Monitoring of Emergency Stop Condition

To avoid any adverse incidents, emergency switches are functioned to automatically interrupt blend operations should any of the following alarms be detected: destination tank level HI, wharf trip alarms, instrument alarms at blenders such as pressure gauge, temperature and quality.

Automatic Valve Sequencing

Defined valves are opened/closed accordingly at blend start/restart/interrupt and finish statuses.

Line / Valve Selection

Selects the blending path and provides a list of the valves to isolate and lineup for the blending operation.

Line / Valve Monitoring

Selected valves are monitored and any errors are detected automatically.

High Quality and Cost Reduction

Property Calculation

Analyzer data are monitored and accumulated to indicate blend average properties.

Property Trimming Control

Ratios are adjusted to control analyzer reading values.

Line Property Tracking

The line properties between blend header and destination tanks are tracked automatically. In addition, the user can manually edit property data.

Blend Property Control (fitOMS BPC)

Blend Property Control module is available for advance model predictive control of blending.

Maximum Operation Throughput

Advanced Blend Data Generation

Target volume can be automatically calculated based on the ullage of the destination tank. Target flow rate can be calculated based on the selected equipment. The resulting data is generated.

Batch-end Re-start Function

The user can add some amount of volume after batch end detection without re-creating a new job.

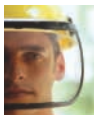
Advanced Equipment Selection

A set of pumps and flow-controllers are suggested based on selection mode such as minimum energy consumption, maximum throughput or pump running hours.

Wild Flow Control

Rundown stream can be incorporated with the blending operation.

fitOMS BLEND combines optional functions to bring you maximum profit !



commitment
means building
the future **to last**

A Yokogawa Commitment to Industry

vigilance™

What does **vigilance**™ mean to Yokogawa? For starters, always, always making sure the products and solutions that leave our research & development labs are the best the world has seen -- from day one throughout your business life cycle. Our innovative technologies and committed experts help design, install and manage your production systems efficiently and dynamically. In an ever-changing business environment, we help plan for the future to ensure continuity and flexibility in your automation strategies. Yokogawa goes the extra mile to do things right. Let us be vigilant about your business.

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