New control center with eyevis video wall improves process management in Statoil gas processing plant in Kårstø.

Since June 2014, four video walls consisting of 42 EC-60-LHD-CP 60” rear-projection-cubes by eyevis have been ensuring transportation and processing of gas at the Statoil processing plant in Kårstø, Norway. At the plant, the pipelines of several natural gas fields in the North Atlantic converge. The eyevis cubes offer reliable, around-the-clock visualizations, precisely predictable maintenance intervals, and a flexible presentation of data. In this way, they allow for an exact overview, quick decisions, and, therefore, the safe operation of the plant at any time.

The Statoil processing plant in Kårstø plays a central role for the transportation and processing of natural gas and condensates that are produced at the Norwegian continental shelf. The gas is processed and purified at the plant and is then passed on to different recipients all over Europe. For the central process management, the pipelines, the gas transportation as well as the process data of the processing on site are visualized on the eyevis-cubes. Additionally, the control room technicians monitor the plant safety.

High requirements for control center technology

The Norwegian integrator Global Control Center Design AS was in charge of the control center design including 3D-modeling as well as the technological equipment and the installation. Thereby, all AV-components had to meet the high requirements of the Technical Requirement Specifications for Large-Screen-Systems of Statoil. This included the eyevis-cubes, which were able to convince with their numerous features.

Reliable and stable representation 24/7:
Due to the long service life of the LED-backlight of about 60,000 hours, the eyevis-cubes offer reliable and stable long-term visualization for the 24/7 operation required in the Kårstø control center. The innovative Heatpipe cooling-system without mechanically moveable parts thereby guarantees long maintenance intervals.

Precisely predictable maintenance intervals increase the user-friendliness:
Thanks to the integrated Automatic Color Tracking, slightest color deviations of the single LEDs can be detected at an early stage. This way, maintenance can conveniently be integrated into the working processes of the plant. This increases the user-friendliness of the cubes.

Flexible presentation of process data and camera signals:
The flexible presentation of different process data and camera signals is enabled through five netPIX graphics controllers and the eyeCON V4 wall-management-software by eyevis. According to the requirements, they allow for the free scaling and distribution of the signals even over several cubes of a wall. Moreover, presets and alarms can be set for different events and situations.

INSTALLED PRODUCTS

- 42x EC-60-LHD-CP (60” rear projection cubes with LED lightsource and full HD resolution)
- 4x NPX-4812-D12-G2.0/G2.1 (high end graphics controller)
- 1x NPX-4812L-R-D4-G1.0 (high end graphics controller)
- 5x eyeCON V4 Basic wall management software