

Air, Sea and Land Role for Zetron in Russian Oil Field

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Advanced TETRA technology from Zetron is enabling the coordination of safety and operational communications in the remote Exxon Neftegas Chayvo oil field on Sakhalin Island, just off the east coast of Russia.

The oil field's production platform, onshore processing facility and oil terminal are each equipped with Zetron DCS-5020 Digital Consoles linked by E1 circuits. Zetron's advanced digital consoles give operators control over all marine-band UHF, air-band VHF and MTM700 TETRA radios, as well as land-line telephony.

In addition, Zetron Model 390 remote desktop controllers are deployed on the oil field's production platform to give workers and safety staff fully-functional access to the TETRA network without the risk of localised RF energy causing an explosion.

Sakhalin Island lies to the north of the Japanese island of Hokkaido, along the eastern coast of Russia. The island is 948 km long from north to south, and 27-160 km wide from east to west. It is a mountainous environment with a climate of extremes – minus 50 degrees C in the winter with up to five metres of snow and 40 degrees C with very high humidity in the summer. Oil was discovered there in 1880 and potential recoverable reserves from the north of the island where Chayvo is located are thought to be 307 million tonnes of oil and 485 billion cubic metres of gas.

The supply and build-out of the communications network was carried out by Zetron integration partner SAGA whose engineers used the DCS-5020's customisable displays to create a common desktop that looks and functions exactly the way Exxon Neftegas operators want. Through touch-screen virtual buttons the DCS-5020 allows control of conferencing, patching, memory dialling, alarm monitoring, alpha-searching of a directory, and emergency group calling.

Widely deployed around the world across a range of sectors from public safety and transportation to heavy industry, the Zetron DCS-5020 enables operators to manage up to 30 different radio and telephone channels through a touch-screen display.

The Zetron Model 390 Desktop Remote has the form factor of a conventional desk phone, but gives users access to Motorola MTM5400, 800e, 800, 700 and 300 functionality through a dedicated interface. Up to 15 Zetron Model 390s can be connected by conventional Cat 5 cable to a single TETRA radio located up to 600 metres away, greatly reducing deployment and installation costs, and enabling RF emissions be kept away from people, sensitive equipment and hazardous environments.

Said Mikhail Rybachenkov of SAGA: "These two key pieces of Zetron technology have enabled us to deliver a very capable solution to Exxon Neftegas. Every day, this solution helps ensure the safety and efficiency of operations in this very challenging environment."

About Zetron

For over 30 years, Zetron has provided mission-critical communications solutions for customers in public

safety, transportation, utilities, manufacturing, healthcare and business. With offices in the U.S.A., UK, Australia and numerous field locations, Zetron supports a worldwide network of resellers, system integrators and distributors. This gives Zetron a global reach as well as a local presence in the regions it serves. Zetron is a wholly owned subsidiary of JVC Kenwood Corporation. For more information, visit www.zetron.com.

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