

Delivering High Noise Communication Solutions for the World's Leading Oil and Gas Companies

# **Oil and Gas Industry Applications**

For years Sensear has been solving high noise communication problems for Oil and Gas companies around the globe. From the Oil fields of Alaska to Oil Rigs off the coast of Malaysia, Sensear's innovative Intrinsically Safe headsets are being used in a multitude of applications across the Oil and Gas industry.

Sensear's Intrinsically Safe headsets enable workers to enjoy a total communication experience (Face-to-face, Two-way radio, Bluetooth<sup>®</sup> and Short Range), remain aware of their surroundings and protect their hearing from hostile noise environments.

The following summarizes just some of the ways Sensear is solving high noise communication problems for the Oil and Gas industry.

# ENHANCING PRODUCTIVITY BEFORE AND DURING SHUT DOWN AND TURNAROUNDS



Effective planning and execution of shutdowns and turnarounds are essential in maintaining product levels and reducing loss of revenue for the oil and gas industry.

Sensear Intrinsically Safe headsets were successfully used during a facility "walk around" planning process so that company executives could seamlessly communicate around the noisy plant while mapping out plans on the fly. Previously, executives would have moved to a quieter area of the plant to discuss plans. Sensear allowed a more efficient planning process and enhanced productivity during the shut down.

As a Conoco Phillips executive said: "Sensear headsets certainly proved to be of immense value during our recent shutdown activities and ought to receive company wide recognition as one of the two most significant technological improvements in safety discovered and utilized in what is arguably the most successful full plant turnaround in the history of our oil field."

# **TURBINE OVERHAUL TEAMS**

Turbine overhaul workers are responsible for general maintenance and repair of large jet engine turbines used to turn pumps used in the production of oil.

These workers are often exposed to high levels of noise associated with the start, run up and testing of jet turbines requiring them to protect their hearing and communicate with each other on Two-way radios. Sensear enables these workers to communicate face-to-face and on their Two-way radios while remaining aware of their surroundings.



# FRACKING TRUCK CREWS

A tremendous amount of noise is created at a Fracking Site. Noise from the process of Fracking, noise from the trucks and noise from the Gas compressor stations, resulting from the need to transport the gas into pipelines, creates a very hostile noise environment.

Sensear is enabling Fracking Crews to communicate safely while on the site even in extreme noise environments where there is a requirement for double hearing protection. By being able to communicate clearly on their Two-way radios, Fracking Crews can be more productive and remain safe while working in a fast paced and at times dynamic environment.

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# FACILITY OPERATORS COMMUNICATION

Workers inside oil generation facilities are constantly exposed to loud noise associated with jet turbine pumps and compressors used in oil production. There is a critical need for workers to communicate across the facilities where hearing protection is mandatory. Instead of removing their hearing protection, Sensear enables workers to communicate face-to-face and stay connected to their two-way radios while remaining protected from dangerous noise levels. Staying connected to fellow workers and especially to the control room is critical for productivity and safety.



#### FACILITY MECHANICS COMMUNICATION

Facility mechanics face the same problems as the Facility Operators, but endure longer exposure times due to repair and maintenance work. Additionally, they often operate crane lifts and other tools that require short-range communications between work teams. Sensear Intrinsically Safe headsets allow the mechanics to communicate face-to-face during safety walks, job briefs and over short-range FM and Two-way radio during part moves and crane operations.

## **RIVER VESSEL RE-FUELING COMMUNICATION**

Conducting an effective re-fueling process for vessels on the major river systems of North America is critical to reducing the incidence of fuel spills and the resulting environmental disasters.

The refueling process can be a very noisy process and Sensear Intrinsically Safe headsets enable clear, effective communication for the vessel workers so they can conduct the re-fueling with maximum efficiency and effectiveness. This leads to a reduction of mistakes and the risk of environmental disaster liability.



#### **OFFSHORE RIG PLATFORMS**

Although much of the equipment used on offshore platforms is also used in onshore drilling and production facilities, the constrained site and unusual operating conditions result in a significantly difficult hearing protection environment. Helicopter landing pads, flares, mud pumps, draw works, gas turbines, generators, compressors, heaters, coolers, and cranes exist in close proximity accentuating an already challenging noise environment.

Sensear's Intrinsically Safe headsets deliver a compelling hearing protection solution on Offshore Rigs because they enable complete communication (Two-way radio, Bluetooth® smart phone, face-to-face), providing full situational awareness and guaranteed protection as workers don't need to remove hearing protection to converse on the platform.

#### **OIL STORAGE TANK INSPECTION AND REPAIR**

Working within an Oil Storage Tank presents unique communication challenges for Oil and Gas workers.

Sensear's Intrinsically Safe headset enables work teams to effectively communicate within the tank by using the short-range

capabilities. They also have the option of communicating with the wider employee base by using the Two-way radio communication capabilities either via cable or Bluetooth<sup>®</sup>.

# **PIPELINE INSPECTION (PIGGING) CREWS**

Pigging crews are responsible for the general maintenance and cleaning of oil pipelines. They are exposed to loud, dangerous noise levels when launching and working with pigging tools, and it is critical that the crew is able to communicate with each other. Not only do Sensear's Intrinsically Safe headsets allow the crew to monitor and communicate on Two-way radio with the wider work force, but they also enable closed short range headset-to-headset communication using the 'Short Range' capability.

