

# How Oil & Gas Leaders Transformed High-Noise Safety with Sensear Headsets

**Client:** Leading Oil and Gas Companies Worldwide

**Industry:** Oil and Gas

## Overview

From offshore rigs in Malaysia to pipelines in Alaska, the oil and gas industry runs on constant coordination—often in the most extreme and high-noise environments on Earth. Traditional communication tools fall short when safety, timing, and clarity matter most.

That's why top oil and gas companies around the globe rely on Sensear's Intrinsically Safe (IS) headsets to stay protected, productive, and connected in the loudest conditions.



That all changed when leading Oil & Gas teams adopted **Sensear's high-noise communication headsets**. The result? Smarter coordination, safer worksites, and faster turnarounds.

## The Challenge

Oil and Gas workers face intense challenges across every stage of operation—from planning shutdowns to inspecting pipelines and operating offshore rigs:

- **Extreme Noise:** From turbine engines and fracking trucks to gas compressors, the sound levels regularly exceed safe limits.
- **Diverse Environments:** Whether onshore or offshore, crews work in harsh, enclosed, or elevated conditions—often with no visual contact.
- **Communication Breakdown:** Standard radios and hand signals were insufficient, especially where double hearing protection was required.
- **Safety Risks:** Poor communication in these environments can result in operational downtime, costly mistakes, or injury.
- **Operational Complexity:** Teams often need to coordinate across large facilities, within tanks, or while performing refueling operations on river vessels.

And as Oil & Gas operations expanded into more hazardous environments—from offshore platforms to fracking sites—the need for **Intrinsically Safe (IS) communication technology** became not just important, but essential for safety and compliance.



## The Solution

Sensear's Intrinsically Safe headset technology transformed how oil and gas companies communicate in hazardous, high-noise environments. By deploying Sensear's Bluetooth® wireless technology enabled over-ear headsets, designed for high-noise hazardous environments, with short-range and radio connectivity, workers now stay fully protected while communicating clearly—face-to-face, via radio, or Bluetooth®—without removing their hearing protection.

## What Made the Difference:

- **Full Situational Awareness** while using Two-way radios or Bluetooth® devices
- **Clear Face-To-Face Conversation** without removing PPE
- **FM Short-Range Communication**—ideal for 1:1 comms within 50 meters
- **Rugged, Over-Ear Design** built for harsh field conditions
- **Future-Ready** planning for IS headset deployment in hazardous zones

## The Results

Across multiple oil and gas environments, the impact was immediate and measurable:

- **Faster Turnarounds:** During a facility shutdown, executives used Sensear headsets for planning walkarounds—eliminating the need to move to quiet areas and improving real-time decision-making.
- **Improved Safety:** Fracking truck crews and turbine overhaul teams operated with fewer risks, staying connected across zones of hazardous noise.
- **Enhanced Efficiency:** Crews in offshore rigs, inside tanks, and during river refueling maintained uninterrupted communication with the control room and with one another.
- **Reduced Risk of Spills and Errors:** Vessel refueling and pigging operations became safer and more precise.
- **Universal Use:** From turbine maintenance to pipeline inspection and crane lifts, Sensear enabled consistent communication across job roles.

## Looking Ahead

With energy companies pushing deeper into complex, high-risk operations, **Sensear's Intrinsically Safe communication solutions** are becoming standard gear. From tank inspection to offshore platform operations, workers now operate with clarity, protection, and confidence.

## Conclusion

Whether a worker is 200 meters away near a gas turbine, inside a storage tank, or coordinating a lift from a control room—

**Sensear makes it possible.**

Loud doesn't have to mean unsafe. With Sensear, the oil and gas industry can hear clearly, work safely, and perform smarter.

**"Sensear headsets proved immensely valuable during our recent shutdown—one of the most successful full plant turnarounds in our history. They should receive company-wide recognition for advancing safety."**

— **Executive, Conoco Phillips**

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