

> OIL AND GAS – UPSTREAM

PATCHING ASSOCIATES ACOUSTICAL ENGINEERING

➤ NOISE IMPACTS IN UPSTREAM OIL AND GAS

Noise impacts in the upstream oil and gas sector are often duplicated well by well. Operators are keen to continuously learn through experience, and to standardize processes in order to drive efficiency. Patching Associates has more than 25 years of experience managing noise impacts for the upstream sector. We have built a reputation for reliability, innovation, and quick turnarounds, and have created lasting relationships with clients looking to streamline regulatory processes for upstream facilities.

➤ NOISE IMPACT CHALLENGES

Although the upstream industry is typically located away from population centers, the area in which a facility is located is commonly shared with rural residences. Drill rigs produce significant noise emissions, and although they operate for a short time period for a single well, they may be present in one area for a long time to drill multi-well pads. Operating well sites are generally quieter than drill rigs by design but can be in operation for several years.

Upstream facilities are often challenged by potential noise complaints from nearby residences, as well ensuring compliance with regulations on environmental noise impacts.

➤ NOISE DIAGNOSTICS AND CONTROL

Patching Associates utilizes noise diagnostic and control methods including:

- Onsite diagnostics to identify and rank facility noise sources.
- Theoretical assessments to provide solutions during the design stage.
- Noise monitoring to quantify actual noise levels around a facility and develop noise control strategies.
- Regional noise models to standardize overlapping noise impacts from multiple facilities.

We address each project individually through a combination of these methods, and deliver solutions to prevent or resolve noise complaints and ensure regulatory compliance.



“Patching Associates collaborated with Precision Engineering to develop a feasible and cost effective solution that achieved regulatory compliance and successfully met the unique noise emission concerns of our client.”

Wesley Hebert
Director of Operations
Precision Engineering Inc.

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