

Acoustic Consulting Services:

- ◆ Pre-construction Noise Predictions
- ◆ Equipment Location & Selection

- ◆ Post Construction Compliance Testing
- ◆ Existing Facility Noise Source Identification



ting engine compressor horsepower (1,500 to 2,700 Hp Each Engine) and add 2000 Hp gas turbine engine compressor.

Goal Meet FERC noise requirements at NSA with all compressor station horsepower operating.

Result Post construction sound survey indicated NSA noise level to be 48.4 dBA LDN.

MED Specified:

- ◆ Compressor building wall acoustics
- ◆ Compressor building ventilation system noise limits
- ◆ Location of reciprocating engine jacket water and lube oil fin fan coolers and gas turbine lube oil cooler
- ◆ Noise barrier
- ◆ Intake and exhaust noise limits of both reciprocating and gas turbine engines
- ◆ Noise limits of starting gas, unit blowdown valves, post and pre-lube gas motor vents

MED Provided:

- ◆ Reciprocating engine intake air filter/silencer - 73 dBA 3' & 90° from the side of the intake hoods
- ◆ Reciprocating engine exhaust - 67 dBA 3' & 90° from side of the exhaust outlet
- ◆ Gas turbine engine intake air filter/silencer - 67 dBA 3' directly in front of air filter element
- ◆ Gas turbine engine exhaust - 67 dBA 3' & 90° from the side of the exhaust outlet
- ◆ Gas turbine starting gas separator/silencer - 75 dBA 10' & 90° from the side of the vent outlet
- ◆ Gas turbine post and pre-lube gas motor vent /silencer - 75 dBA 10' & 90° from side of the vent outlet
- ◆ Gas turbine and reciprocating engine unit blowdown silencers - 75 dBA 10' & 90° from the side of the vent outlet