



Controlling Industrial Noise and Heat at Moss Landing Power Plant

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OVERVIEW

Moss Landing Power Plant operates in a demanding power generation environment characterized by high-temperature process piping, high-velocity exhaust ductwork, and continuous mechanical operation. In facilities of this scale, uncontrolled noise and thermal losses can negatively affect worker safety, system efficiency, and regulatory compliance.

Many of the plant's mechanical systems extend beyond interior mechanical rooms into exposed outdoor areas, where piping and ductwork are subject to heat, vibration, moisture, and environmental wear. These conditions require a soundproof pipe and duct wrap that delivers reliable HVAC noise blocking, long-term durability, and effective thermal insulation without frequent maintenance or replacement.

CHALLENGES

Excessive noise from exhaust ducts, process piping, pumps, and valves increased worker noise exposure levels and impacted compliance with OSHA limits. At the same time, heat loss from hot piping reduced system efficiency, and condensation control was required to protect equipment and insulation systems.

SOLUTION:

All Noise Control installed ANC-B10LAG2 (B10LAG) acoustic pipe and duct wrap across key process piping, HVAC ductwork, exhaust ducts, and mechanical equipment throughout the facility. The system's two-inch thick quilted fiberglass pipe wrap acts as a vibration decoupler and sound absorber, reducing structure-borne noise traveling through pipes and ducts.

Bonded to this absorber is a loaded vinyl noise barrier that blocks airborne and impact noise from escaping mechanical systems, delivering dependable soundproof duct wrap performance in high-noise industrial environments. With an R-value of 9, the acoustic pipe and duct wrap also provides exceptional thermal insulation for hot pipe applications, significantly reducing heat loss and improving temperature control.

Engineered for harsh conditions, ANC-B10LAG2 is resistant to moisture, chemicals, and wear, making it ideal for long-term HVAC wrap, fiberglass duct wrap, and outdoor pipe wrap applications commonly found in power generation facilities.

RESULTS:

- Reduced worker noise exposure in mechanical and process areas
- Improved compliance with OSHA noise requirements
- Enhanced thermal efficiency and reduced heat loss
- Durable acoustic pipe and duct wrap solution for industrial power plants