



Nooter/Eriksen
Aftermarket Services

Stack Damper Supply and Installation November 2008 – Pennsylvania



A northeastern plant servicing a refinery required the addition of stack dampers to improve both the reliability and the availability of their HRSGs. The dampers would reduce the start up times following a hot or warm start and subsequently reduce cyclic fatigue on the boiler components. **Nooter/Eriksen Aftermarket Services** provided a turnkey installation for the dampers on three HRSGs which were not **Nooter/Eriksen's** design. **Nooter/Eriksen's** field contractor was required to develop a field construction plan considering a critical outage of only (3) weeks for all three units. The turnkey project required **Nooter/Eriksen** to perform the design, procure all of the materials, develop a detailed installation procedure, supervise the field construction, and provide start-up assistance. In addition to the supply of the stack dampers, **Nooter/Eriksen** designed and supplied new stack platforms. Stack insulation was also provided to the elevation of the stack damper to improve the heat retention during a weekend or overnight shutdown.

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The design criteria was tailored to a large stack with a height of 250+ feet, mass tune dampers at the top, and independent foundation from the HRSG. The stack damper design included: insulated blades, 90 degree open position for all (4) blades, and pressure release at 5 in. of H₂O. The platform was designed for an elevation below the top HRSG platform with supports from both the HRSG and the stack. All electrical and instrumentation design and field installation was also provided by **Nooter/Eriksen**.

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