

# Cooking Up Major Noise Reduction

**FK reduces noise at Korean nuclear power plant to the hum of a food blender at 3ft!**



A CCI Company

*...Helping you meet and exceed noise reduction goals*

Application  Power  Gas Transmission  Oil and Gas  Other

**T**he Kori 1 & 2 power stations are the first nuclear power plants ever to be built in Korea and are operated by the biggest electric power company in Korea.

These power stations have been in operation ever since they were built in 1978 and with ancillary plants supply 40% of the nation's electricity demand. However, over time the existing non-Fluid Kinetics silencers at the plants began to succumb to age and the severe service conditions. Because of the silencers' internal component failures and disintegrating acoustic materials, there were increased noise levels from the atmospheric power safety relief valves. This plant needed major noise reduction and needed it quick! To reduce this noise, the owners made the wise decision to install Fluid Kinetics' (FK) reputable vent silencers. Bracing themselves for a vertically oriented and very heavy silencer as would have been the industry standard, they were pleasantly surprised when FK recommended and provided horizontally oriented, compact silencers that were within the given weight limit. This orientation provided unparalleled benefits in terms of support design. In addition, the acoustic performance of the brand new compact silencers was exceptional. Our silencers exceeded the noise goal of 90dba at 100ft by reducing the noise to 74dba at 100ft!

FK is committed to doing a thorough job. We perform a complete analysis of your system in order to ensure silencer longevity and maximum performance. This long-time practice of FK's was evident while designing the Kori silencers - our blowback calculations revealed a considerable need to increase the existing support pipe diameter. These changes were recognized and then incorporated by the plant. The Kori plants got the best of both worlds - reliable silencers and the services of experts who have over 35 years of experience. Do what other professionals have, trust FK with your noise problems today.



The newly installed silencers reduce noise to 74dba

**Date:** January, 2006      **Location:** Kori Nuclear Plant, Korea  
**Noise goal:** <90dba at 100ft  
**Application:** Atmospheric Power Safety Relief Valve Silencer



**Need a quick quote?**  
**Call: 1-805-644-5587**  
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**FK is the manufacturer of choice where quality, reliability and durability are of utmost importance**