

## Special fan silencers fit the restricted space at a thermal power station.

### **PROBLEM: Insufficient straight duct**

To protect against employee hearing loss, retrofit silencing was required for two forced draft fans supplying the boiler. However there was insufficient space to supply standard silencers.

### **SOLUTION: Special silencer designs**

One intake silencing system was supplied to control the noise from both fan inlets. It consists of a singular air inlet box, common silencer, weatherhood, birdscreen and support legs.

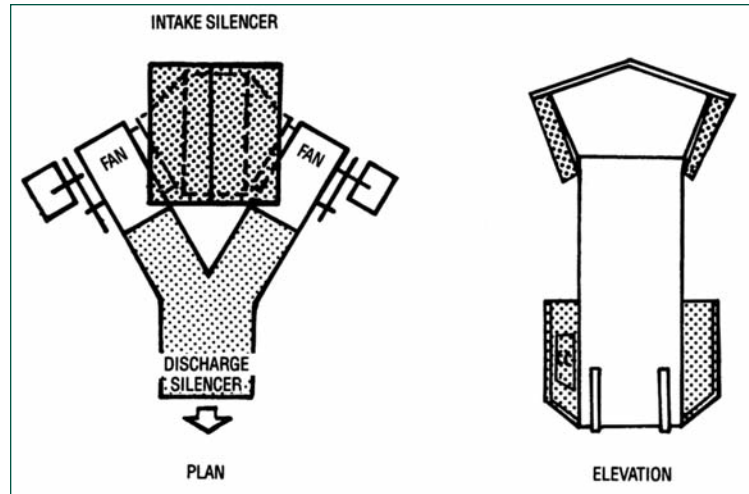
The fan discharge “pair-of-pants” silencing system is made up of discharge duct silencer and supporting structural steel.

### **PROBLEM: Insufficient duct length**

The silencers were close coupled to the high pressure fans exposing them to substantial aerodynamic forces.

### **SOLUTION: Heavy duty construction**

Silencing systems were supplied class III construction, heavy gauge and all welded. Casings were continuously welded.



*Plan view of common intake and “pair-of-pants” discharge silencing systems. Elevation shows common intake silencing systems.*