

**1990 NOVA AWARD WINNER****Mount Macdonald Tunnel Ventilation System**

The Mount Macdonald Tunnel Ventilation System allowed a major increase in the volume of traffic over Canada's transcontinental rail line. The system is characterized by the partitioning of the tunnel with a system of multiple gates and variable pitch fans and dampers. These are interlocked in a pattern that automatically adjusts to train position and environmental conditions. The system is unmanned and operated under computer control.

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