

NAV CANADA CALGARY INTERNATIONAL AIRPORT

 **PARTICLES**
REDUCED

 **ODORS**
NEUTRALIZED

Odor Control

The Challenge

In 2017, as in prior years, the air traffic control tower at the Calgary International Airport (CIA) was having major indoor air quality issues due to smoke from the wildfires in British Columbia.

The Solution

In 2018, NAV CANADA installed the GPS-iMOD® system in the HVAC units for the air traffic control tower prior to the wildfire season. The intent was to test the ability of the GPS technology to not only reduce particles entering the facility, but to neutralize odors associated with the smoke.

96%
PARTICLE
REDUCTION
WITHIN 48 HRS



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The Results

The GPS-iMOD system helped reduce the amount of particulate entering the building by 87% at 0.3 microns within the first 48 hours of operations while still using their existing MERV 13 filters. The ionization caused the fine smoke particulate to agglomerate, making the existing filters more effective in catching the particles

Particle reduction results using existing filters with GPS-iMOD system:

1. 87.2% reduction for particle size 0.3 micrometer (0.3 micron)
2. 95.4% reduction for particle size of 0.5 micrometer (0.5 micron)
3. 95.8% reduction for particle size of 1 micrometer (1 micron)

GPS®

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