



Smarter MRO

This aviation service provider has figured out how to reduce the cost of labor and heating with one simple solution.

GPS
SOURCE
GPS LIVE INSIDE

This Aviation Service Provider is located in Canada. They have a MedEvac unit with the ability to provide 24-hour air ambulance service from multiple bases outside of Manitoba. The company operates King Air 200 aircraft that are equipped with state of the art avionics. This advanced avionics system is supported and maintained by an internal MRO Team.



We have a fleet of 4 fixed aircraft offering Medevac services, and two rotary wing aircraft offering flight services to the Construction industry. The MRO solution allows us to efficiently manage system checkups, on average twice a week, giving the ability to provide 24-hour air ambulance services on the most remote landing strips in Canada.

~ Executive with Aviation Service in Canada

No GPS Signal Available for Testing

A key task of the MRO team was to perform flight verification checks with an active GPS Signal. Planes had to be towed outside, as there was no active GPS signal available inside any of the hangars. In order to tow a plane outside, it was common practice to stop work on other planes and move them out of the way of the hangar doors. It would take approximately one hour to move a plane outdoors, perform system checks and move back into the hangar.

Add Heating Costs

Added costs came in the winter. Winnipeg's normal mean temperature in December was -13°C. Each time a plane was moved outdoors, hangar doors were opened and heat was lost. Each plane would have a systems check performed twice a week. This resulted in higher than normal heating costs and less than ideal working conditions.

Select the Right Solution and Extract Value

In December 2011, this aviation service provider contacted a distributor of GPS Source looking for ways to keep their planes inside. GPS Source suggested that they install the GPS MRO Hangar solution. The company installed the MRO Hangar in two of their hangars and immediately saw a return on their investment.



- Cost Savings - Labor
- Cost Savings - Time
- Cost Savings - Utilities
- Improved Work Environment
- Improved Situational Awareness

Benefits

System Includes

Base system includes GPS signal controller, GPS antennas, cabling and phone support. Solutions can be designed for hangars up to 1,000,000 sq. ft.

Conclusion

The electronic avionics equipment that was installed in their King Air 200 aircraft was able to receive GPS without leaving the hangar. A crew of five were no longer needed to tow aircraft outside for system checks. Work no longer stopped to jockey planes around. The hangar doors did not have to open in the middle of winter for flight checking, improving overall winter working conditions.

Testing of avionics navigation equipment requires a GPS signal, which is not often available inside a hangar. MRO Hangar is a solution offered by GPS Source that conveys a live GPS signal inside an aircraft hangar for general testing, maintenance and repair of avionics equipment.

To learn more about GPS MRO Hangar, please visit <https://www.gpssource.com/pages/aircraft-hangar-mro>



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About GPS Source, Inc.

Since 2000, GPS Source has been developing solutions for the Global Navigation Satellite System (GNSS). This includes GPS & GLONASS Retransmission and Signal Distribution Systems. GPS Source, Inc. is an expert in GNSS retransmission and has established itself as an industry leader in developing safe, controlled solutions for GNSS and RF distribution.

