

This airline has significantly reduced their MRO labor hours with one simple solution.



Smarter MRO



This airline provides a vital connection to remote populations located in Northwestern Ontario. There are over 25 communities of 500 to 4,000 people that utilize their service. Medical supplies, building materials, fuel and food all require air transport into this area, as roads are inaccessible to most motorized vehicles.



The MRO hangar solution allowed us to check the on-going operation and performance of our on-board Flight Management System (FMS) or GPS Navigation System. This gives us the ability to offer a timely and uninterrupted service to meet the supply needs of our communities in Northwestern Ontario and Manitoba whom do not have road access to markets, suppliers and manufacturers.

SkyTrac Enabled

The airline has 27 aircraft utilizing the SkyTrac 2-way messaging system, inclusive of GPS on board their planes. Because of the large geographical area in which it operates, this system provides a mean of real-time communication including the start-up, shutdown and enroute positioning of their planes.

Labor Costs

Flight management checks were routinely performed on all aircraft. This included the operation and performance of the on-board Skytrac System. Without GPS availability inside the hangar, avionics techs were required to back planes out onto the tarmac for routine system flight checks. This was the only way to obtain a clear line of sight to GPS satellites, required for a successful systems flight check.

Select the Right Solution and Extract Value

In July 2011, the airlines contacted a distributor of GPS Source looking for ways to check the GPS component of their SkyTrac System from inside their hangar operation. GPS Source suggested that they install the GPS MRO Hangar solution. The airlines purchased MRO Hangar and realized a decrease in their labor requirements by 150 - 200 hours per year. MRO Hangar paid for itself almost immediately.



- **Cost Savings - Labor**
- **Cost Savings - Time**
- **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 SkyTrac System was now able to receive a GPS signal without technicians backing planes out onto the tarmac. The airlines calculated the installation saved them 100 - 150 labor hours per year. The MRO crew were able to check the operation and performance of the GPS Navigation System inside the hangar in a controlled environment at all times.

Testing of a GPS navigation system as part of the on-board FMS, 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 FMS 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.

