

Weapon Systems Support

We are a proud supplier of Avionics Life-cycle Support in the Maritimes, with over 20 years of active participation on various CP140 support contracts and modernization programs.



Geared to improving operational availability of ageing avionics systems, L-3 ES provides avionics mission systems life-cycle support and optimized weapon systems support for the Canadian Forces' CP-140 Aurora Maritime Patrol Aircraft fleet and other aircraft.

Support is provided from our Halifax facility and includes Technical Investigations and Engineering Studies, Repair and Overhaul (R&O), Life-cycle Management Support, Technical Publications Management and Spares Management services.

We are currently responsible for "total" life-cycle support of the CP-140 aircraft avionics systems and related ground support systems under the CP-140 Avionics Systems Support Contract.

A technical staff of over 60 personnel are involved in sustaining the CP-140 mission systems, 13 of which provide on-site engineering and logistics services directly to Canada's Department of National Defence and other customers as necessary. This team has conducted thousands of technical

studies and investigations, maintains over 800 technical publications and is responsible for the R&O of 46 mission system weapons replaceable assemblies and 250 subassemblies. This participation has provided us with an intimate knowledge of the CP-140's avionics architecture, functionality and subsystems.

With the CP-140 as one of our principal programs, we have invested heavily in establishing our Halifax facility as a centre of excellence for Maritime Aviation support. "Squadron-to-depot" levels of maintenance are offered at the facility, which is equipped with custom-built Automatic Test Equipment and other advanced technologies.

We are continuously evolving and developing our resources and tools at the Halifax facility to ensure an optimum level of service to CP-140 modernization programs. For example, to assist in Aurora avionics evaluation and testing, we established the System Test Facility (STF), a highly versatile test station used on a number of Aurora avionics subsystems.

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The STF exemplifies our capability in avionics supportability. It has improved equipment availability and reduced both equipment and test program development costs.

We are committed to providing a highly versatile support environment to support future replacements or enhancements of CP-140 avionics.

Facilities

- Class 10,000 and 1,000 clean rooms
- Avionics system test facility (STF)
- EMC/EMI test facility
- Environmental stress screening facilities
- Optics laboratory
- Walk-in thermal and humidity chambers
- Materials and processes laboratory
- Qualification, in-circuit, and final system test equipment

Maintenance

- Depot level maintenance
- Field service support
- Maintenance management

Repair and Overhaul/Manufacture

- Depot level avionics repair and overhaul
- Dedicated Carousel IV Navigation System repair and overhaul
- Avionics systems component fabrication

Support Engineering Services

- System modifications/upgrades
- Rapid prototype development
- Test equipment design and build
- Airworthiness management
- Flight test support
- Integrated logistics support
- Obsolescence management
- Training
- Technical publications management



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