

Pratt & Whitney Aerospace Centre and Lethbridge Assembly and Test Centre

Operation and Maintenance



Client: Pratt & Whitney Canada
Location: Mirabel, QC and Lethbridge, AB
Building Type: Industrial
Contract date: Since 2014
Surface Area: 400 000 ft²

Pratt & Whitney is a global leader in aerospace. The company produces globally over 50,000 engines and employs more than 9,200 people. Approximately 6,200 employees are based in Canada, including 300 at the Mirabel Aerospace Centre and 200 at the Lethbridge Assembly and Test Centre.

The 300,000-square-foot **Mirabel Aerospace Centre** is the global flight testing hub for the complete range of Pratt & Whitney engines. The Centre is home to assembly and testing facilities integrating the most advanced manufacturing technologies. Built in 2011 according to the highest operational and environmental standards, the Centre meets the LEED Silver standard requirements.

The **Lethbridge Assembly and Testing Centre** is P&WC's centre of excellence for assembling and testing PT6 engines for the turboprop and helicopter markets. In operation since 1993, the centre also houses a regional maintenance services centre open to corporate clients.

Pratt & Whitney can count on ENGIE to ensure the maintenance of its industrial production systems in a secure environment.

Mandate

ENGIE provides operation and maintenance of mission critical production systems, project management services and oversees the inventory of production parts and consumables. ENGIE also provides an emergency response service 24/7, 365 days a year. This mandate, carried out in a critical environment, requires ENGIE to adhere to a number of service level agreements relating to equipment's uptime, safety and timely reporting.

Systems

- Auto-Guided Vehicles
- Overhead Engine Handling System
- Pre-Dress Engine System
- Fuel Farm System
- Engine Transport System
- Hardback Transport System
- Test Cell Systems
- Zero Gravity Manipulators / G-Force & Production Hoists
- Automated Shelf Storage Systems (Remstar)
- Test Cell Hydraulic systems and air start systems

Maintenance Planning

ENGIE plans the production systems' maintenance in collaboration with the client's production team, including:

- Daily planning and scheduling of preventative and corrective maintenance with customer representatives
- Review of backlog/open work-orders
- Look-ahead scheduling
- Required shutdown or forced outage scheduling
- Coordinate and communicate with end users regarding shutdowns and site-specific procedures
- Adhere to all work specifications and guidelines in the planning, scheduling, and execution of work including EH&S planning of impacting projects

Led by an onsite supervisor, ENGIE's technical support team assesses the equipment condition and recommends improvements to ensure reliability and optimal efficiency.

ENGIE's onsite team utilizes a CMMS (Computerized Maintenance Management Software) to document, track and monitor maintenance activities. This system enables ENGIE's team to control maintenance operations and the execution of works from thorough planning while monitoring facilities maximum uptime and efficiency. The CMMS system produces various customized reports to Pratt & Whitney's requirements, such as:

- Equipment Reliability Program
- Change management procedures
- SOP (Standard Operating Procedures) and EOP (Emergency Operating Procedures)
- Production maintenance optimization program
- Short and long range maintenance and life-cycle planning reports

ENGIE is the partner capable of providing innovative and cost efficient solutions adapted to each client