



Transport
Canada

Transports
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MPS-751
(04/2009)

Transport Canada Civil Aviation (TCCA)

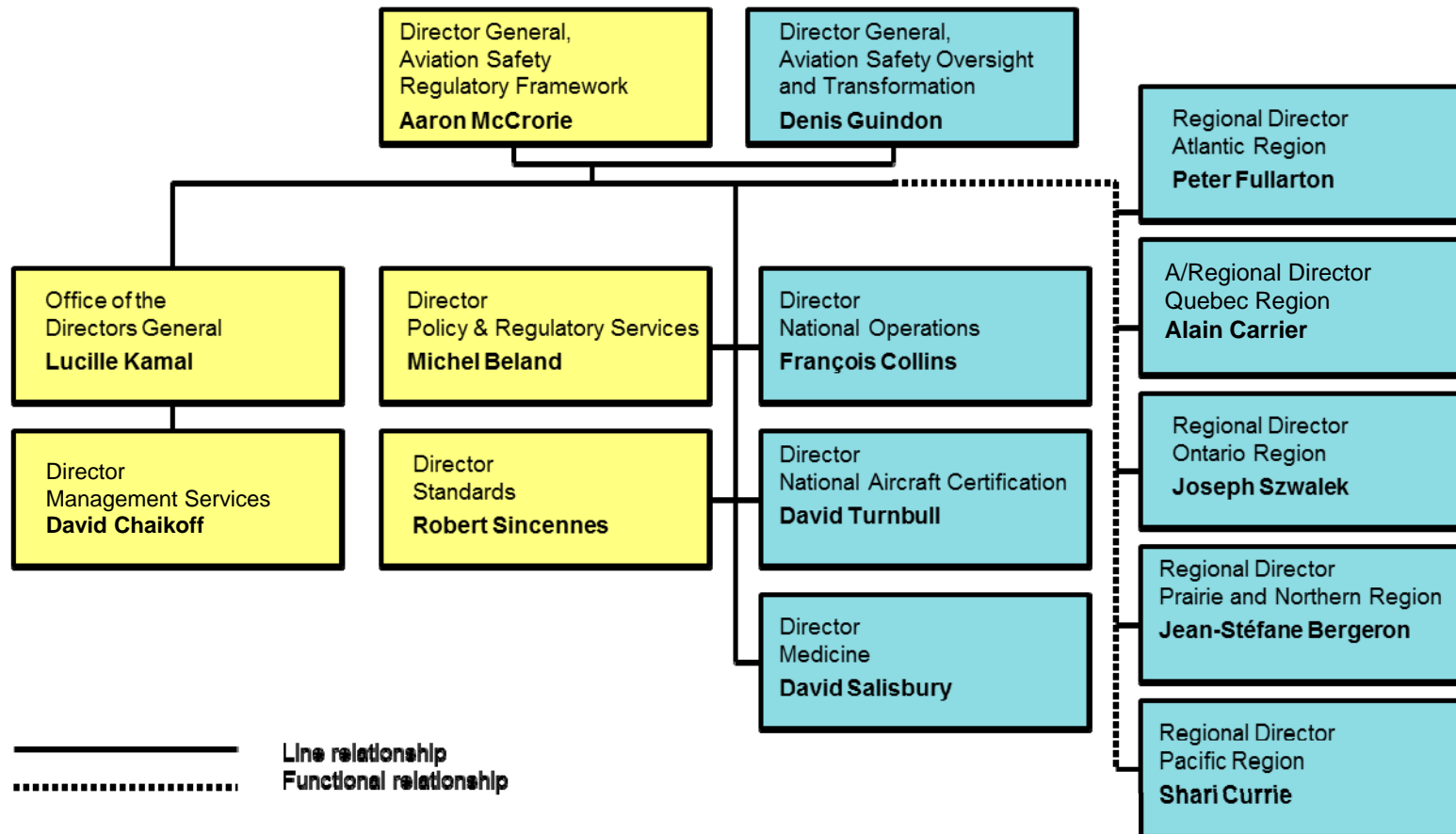
CAR Part V, Subpart 61

Manufacture of Aeronautical Products

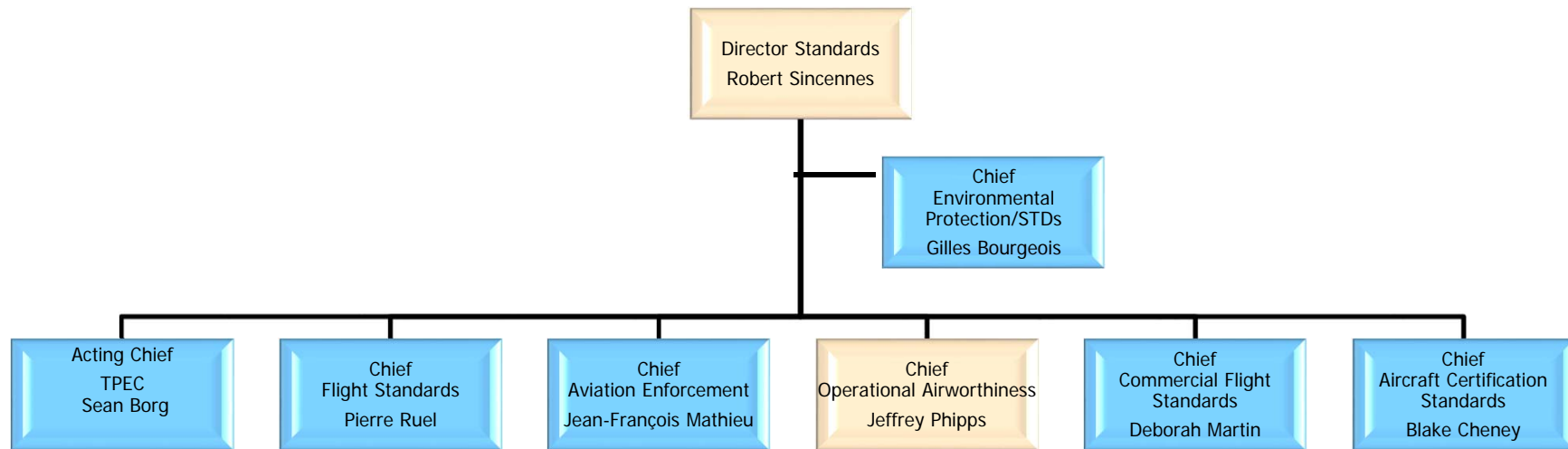


Jeffrey Phipps
Chief, Operational Airworthiness
November 15, 2017

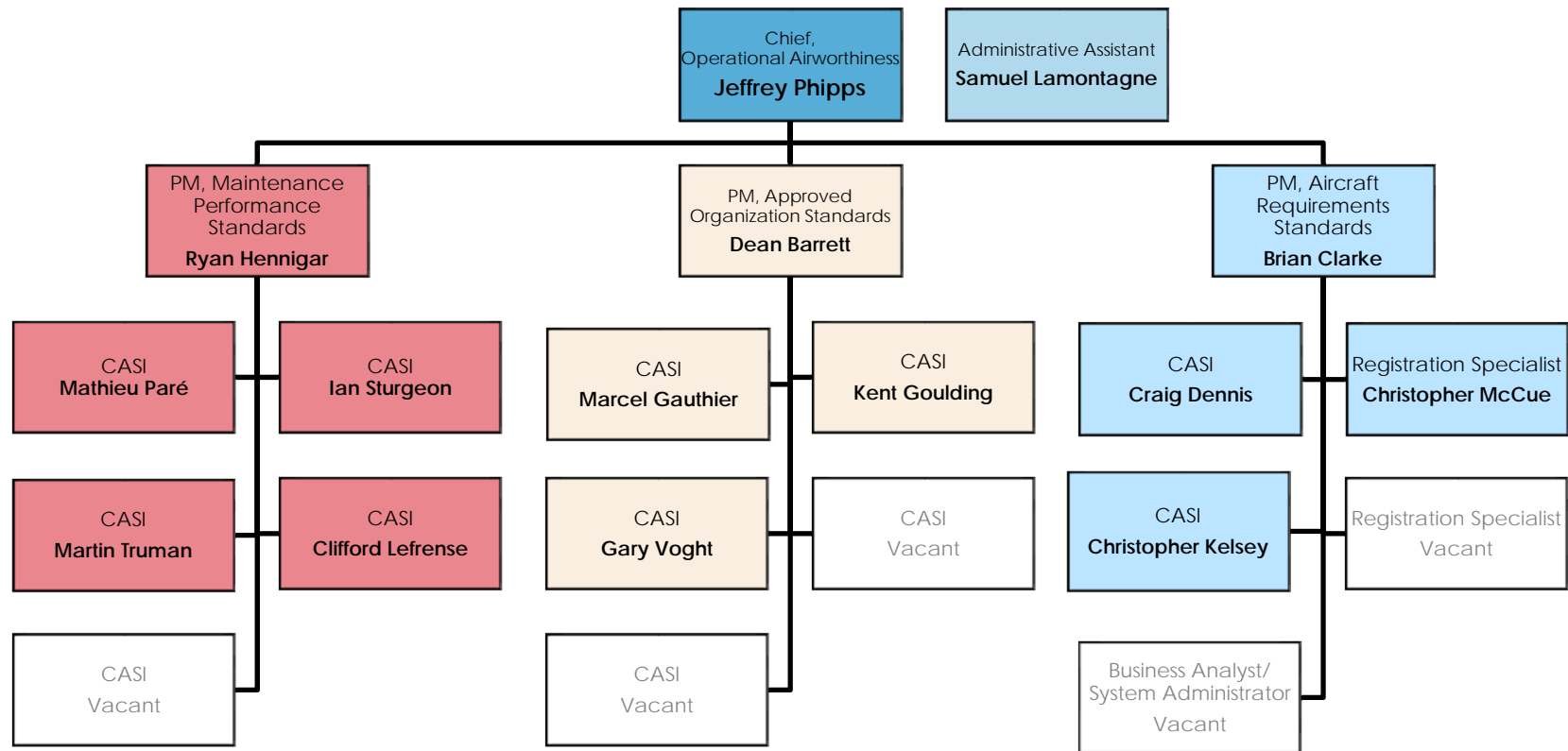
Transport Canada Civil Aviation



Standards Branch



Operational Airworthiness



CAR 561

Canadian aviation regulations (CAR) 561 and the associated standard is the basis for approval of CANADIAN manufacturers.



History

2006- CAR 561 became law on September 5, 2006

2007- Regulatory requirements for TC approved manufacturer certificate holders came into effect on December 1, 2007.



Manufacture CAR 561

The making of an aeronautical product in respect of which a design approval has been issued.....

“Aeronautical product” (Aeronautics Act, Article 3 (1) means any aircraft, aircraft engine, aircraft propeller or aircraft appliance or part or the component parts of any of those things, *including any computer system and software.*



Manufacturing Approval Not Required

- Standard parts;
- Commercial parts;
- Parts made during a repair or modification (CAR 571.06), including repairs approved under a Repair Design Approval (RDA) and modifications approved under a registration specific (Serialized) Supplemental Type Certificate (STC).



CAR 561 Requirements

- Facilities and quality system;
- Management personnel;
- Rights to manufacture.



The Application Process

- Submit an application (letter format);
- Submit a [policies and procedures] manual;
- Where applicable, present a written authorization to manufacture from the holder of the design approval;
- Where applicable, submit all required data concerning management personnel;
- Pay the fee; and
- Where applicable, provide a proof of incorporation or equivalent document.



Manual Requirements

- Title page
- Table of contents
- List of effective pages
- Amendment procedures
- Certification page
- Brief description of the organization
- Scope of work
- Duties and responsibilities including organizational chart if necessary
- Technical data management
- Product configuration control
- Evaluation and control of suppliers
- Identification and traceability of aeronautical products
- Production control system
- Quality audit system
- Certification authority
- Control of inspection, test and measuring equipment
- Non-conforming products
- Training program
- Personnel Records
- Product Records
- Service Difficulty Reports



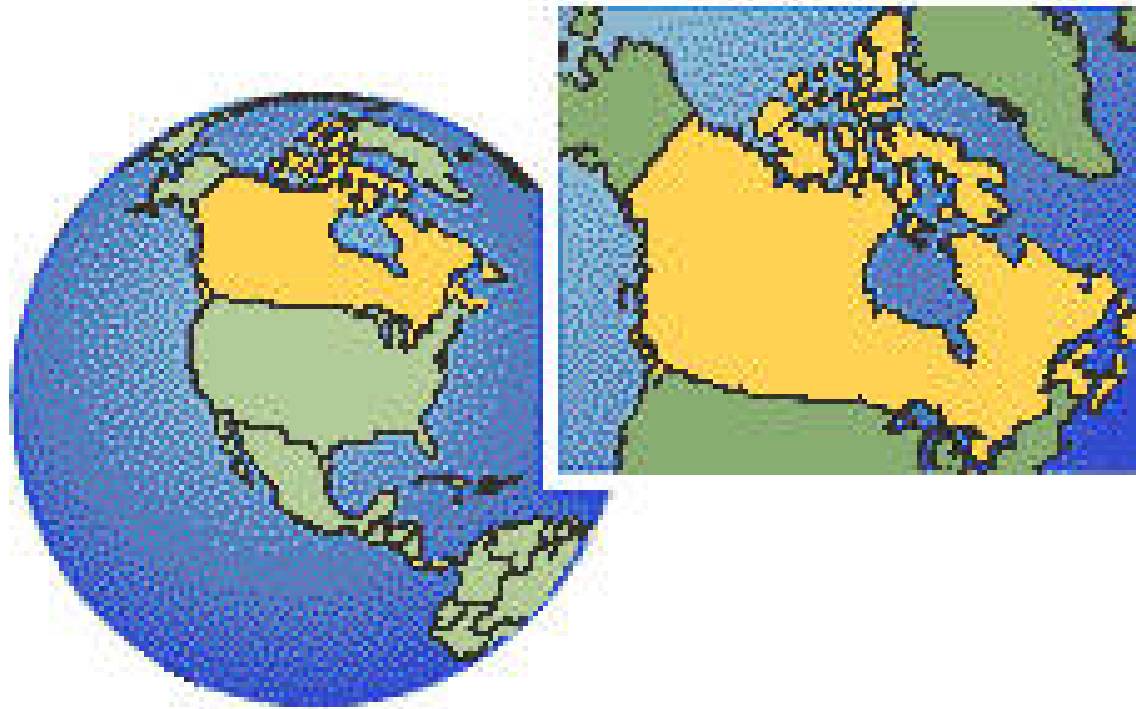
The Approval Process

To Issue a Manufacturer Certificate:

- Collect the fee;
- Review the documentation submitted;
- Report any discrepancy or non-compliance;
- Where applicable, review corrective actions;
- Validate information received (On-site verification);
- Report any discrepancy or non-compliance;
- Where applicable, review corrective actions;
- Approve the manual, issue the Manufacturer Certificate.

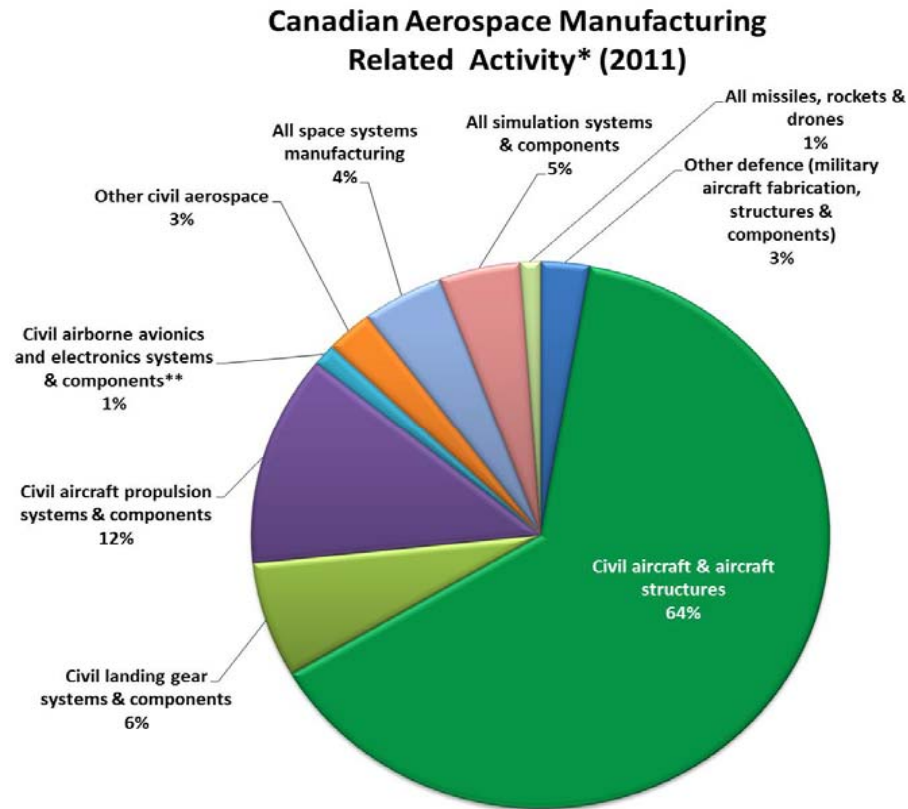


Our Approvals



Our national data base lists 141 approved manufacturers

Canadian Manufacturing Activities



Source: Aerospace Industry Association of Canada (AIAC)'s "The State of the Canadian Aerospace Industry Report"

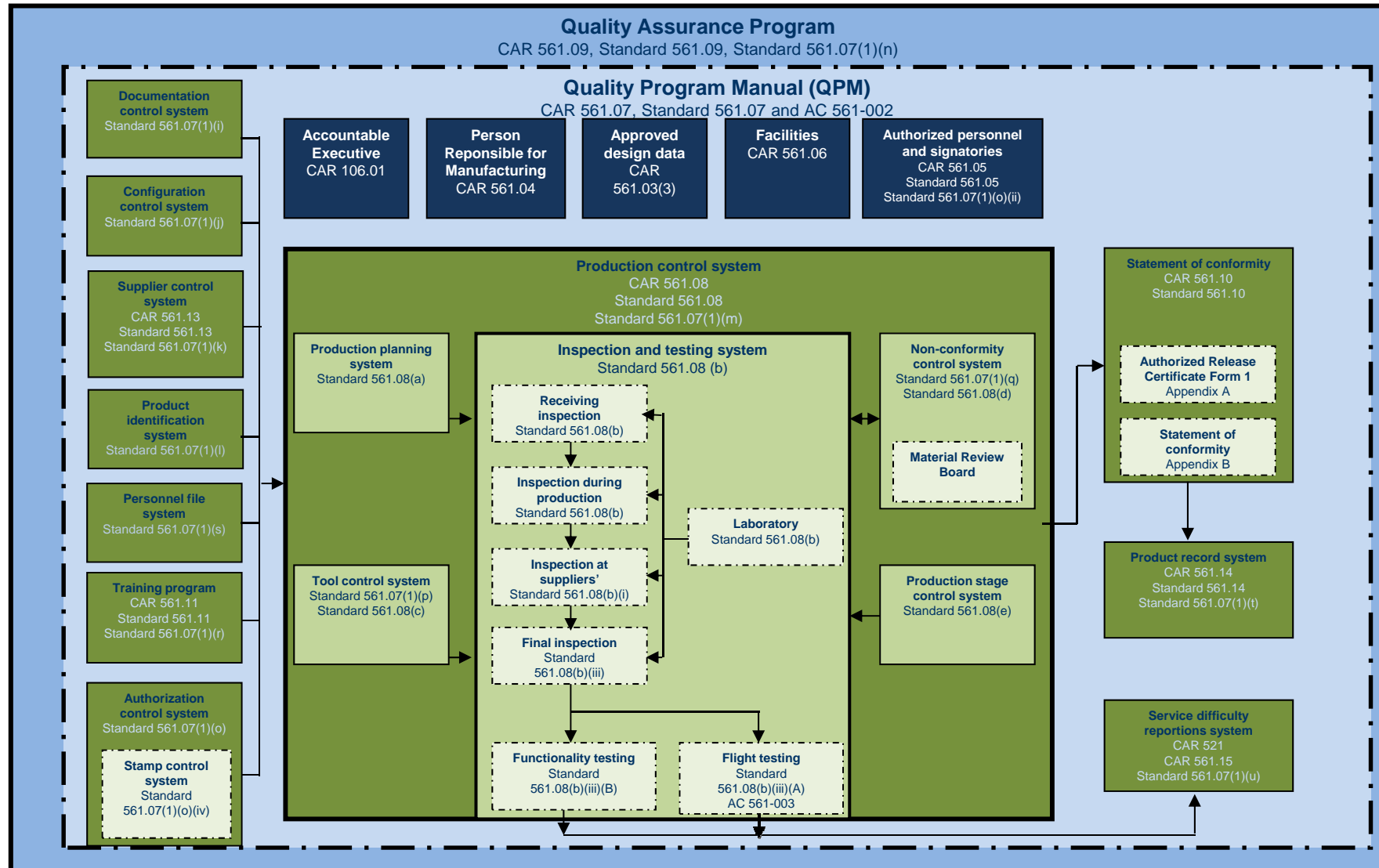




Currently 4 approvals have extended outside of
Canada



Approved Manufacturing



The Approval Process Outside of Canada

- We do not issue approvals to organizations that are not based in Canada;
- A Canadian manufacturer can extend their QA and production system outside of Canada to allow for manufacturing to occur in a foreign land;
- When completed in accordance with the manufacturing approval, the product is considered manufactured in Canada.



The Approval Process Outside of Canada Cont'd

- Ensure that foreign authority has no objection
- Company to extend Quality program to sub base
- Validate information received (On-site verification);
- Report any discrepancy or non-compliance;
- Where applicable, review corrective actions;
- Approve the manual, amend certificate for sub base;
- Two year expiry date on the CAR 561 certificate for that facility outside of Canada.



Technical Implementation Procedures

- The Agreement on Civil Aviation Safety between the Government of Canada and the European Union, was signed on the 6th May 2009.
- Technical Implementation Procedures (TIP) Revision 3, between TCCA and EASA was signed 18 September 2017.
- TIP Covers Type Design, import, export, continued support of civil aeronautical products and production.
- Production of civil aeronautical products have been deemed to be sufficiently similar.
- TIP requires production approval in accordance with Part 21A.4 or CAR 561 in order to manufacture a production with a design approval.



Questions?



Canada

