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GMM

CAIP APPENDIX 2b CL600-2B16 (CL-604)

DL-GMM-CAIP 2b

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Revision Record					
Revision No.	**Revision Date**	**Initials**	**Revision No.**	**Revision Date**	**Initials**
Original	8/01/13				
Rev. 1	3/31/16				

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Table of Contents

Section **Page**

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1 INTRODUCTION

This section is the Continuous Airworthiness Inspection Program (CAIP) applicable to a specific aircraft maintained per the CAMP.

2 INSPECTION PROGRAM

The aircraft will be maintained in accordance with the instruction and referenced manuals for a specific aircraft.

3. MAINTENANCE MANUAL

This section includes procedural and specific instructions applicable to the:

Aircraft: **Bombardier Challenger CL-600-2B16 (CL-604)**

4 REVISIONS TO THE MAINTENANCE MANUAL

All Revisions to this appendix for the Challenger CL-600-2B16 will be submitted to the FAA, Van Nuys FSDO, for approval. .

All revisions will consist of newly issued pages that will show the date of the revision and indicate the revision number. The revisions will be numbered sequentially. The current Challenger CL-600-2B16 Maintenance Manual:

"As Revised"

When the Aircraft Manufacturer issues a revision to the Inspection Schedule (Chapter 5), the DOM or his designee will send the Van Nuys FSDO a copy of the change and revise the CAIP program as required.

5 COMPUTERIZED MAINTENANCE PROGRAM

The Challenger CL-600-2B16 Computerized Aircraft Maintenance Program (CAMP) will be used to track all the maintenance and inspections requirements.

6 AIRFRAME INSPECTION PROGRAM

The Challenger CL-600-2B16 Chapter 5 Maintenance Program was prepared by Bombardier to provide operators with all information necessary to enable operators to comply with the FAR requirements to construct a suitable maintenance program. It was prepared with the intent of providing the maximum amount of flexibility for the Challenger operator. Chapter 5 contains all the requirements of the maintenance and inspection program that are recommended and prescribed by the manufacturer.

Each inspection task defined in Chapter 5 is independent of other inspections. At each inspection the DOM or his designee shall review the due list for other life-limited maintenance tasks that are coming due in the near term so they may be included in the work package if advisable to do so.

7 AIRCRAFT INSPECTION PROGRAM

The Challenger Maintenance Manual Chapter 5 consists of the following sections:

- **Section 05-00-00: Time Limits/Maintenance Checks**. The TLMC manual has the sections that follow:
  - Airworthiness Limitations. The tasks in this section are mandatory. They include the removal of life-limited components (structure and systems), tasks that are necessary for continued operation in special environments (such as reduced vertical separation minimum (RVSM)), hard time inspections and certification maintenance requirements.
  - Maintenance Review Board Report. The MRB report contains the initial minimum maintenance/inspection requirements in compliance with Instructions for Continued Airworthiness. It does not include any of the mandatory airworthiness tasks that are in the Airworthiness Limitation section (05-10-XX) of the TLMC.
  - Custom Installations. This section is reserved for tasks that come from installations to the aircraft made by aircraft completion
- **Section 05-10-00: Airworthiness Limitations.** This Section provides manufacturer recommended time limits for inspections, maintenance and overhaul of the aircraft, structures and systems. This section provides information on Airworthiness Limitation Instructions and manufacturer's recommended life limits items.
- **Section 05-20-00: Maintenance Review Board Report**. This report outlines the initial minimum scheduled maintenance/inspection requirements to be used in the development of an approved continuous airworthiness maintenance program for the airframe, engines (on−wing engine only), systems, and components of the Canadair Challenger CL−600−2B16 (CL−604).
- **Section 05-21-00: Avionics, Systems and Powerplant Program.** This section provides the basic scheduled inspection tasks and frequencies applicable to the CL−604 Avionics, Systems and Powerplant.
- **Section 05-22-00: Structure Program.** This section provides the basic scheduled inspection tasks and frequencies applicable to the aircraft structure.
- **Section 05-23-00: Zonal Inspection Program.** This section provides the requirements for each aircraft zone to check system and powerplant installations and structure for security and general condition. The inspections are specified by quoting the relevant zone number, zone description, access requirement and intervals. There are zones which will require more than one inspection at different intervals, because the depth at which the zone is to be examined may necessitate differing levels of accessibility.
- **Section 05-24-00: L/HIRF Inspection Program.** This section provides the basic scheduled inspection task and frequencies applicable to the CL−604 lightning/high intensity radiated field (L/HIRF) protection. The intent of the Challenger 604® L/HIRF protection maintenance program is to ensure the availability of L/HIRF protection for each line replaceable unit (LRU) and wiring disconnect within a specified system. The L/HIRF maintenance program will involve on−aircraft inspection of L/HIRF protection termination at LRUs and wiring disconnects for un-serviceability resulting from

accidental or environmental damage. Wiring runs are considered to be covered within the scope of the normal Zonal Inspection Program.

- **Section 05-50-00: Unscheduled Maintenance Checks.** This Section lists those maintenance checks and inspections on the aircraft that are dictated by special or unusual conditions not related to the time limits. These conditions include: Aircraft parked in strong wind or wind gusts; Hard and/or overweight landing; Severe turbulence reported; Lightning Strike; Overspeed condition; Deflated tire, burst tire or fusible plug release; Wing leading edge overheat; Air driven generator in-flight deployment; Cabin over pressurization; Engine driven pump operated dry after loss of hydraulic fluid; Hydraulic system over heat; Symmetry and alignment; Pitot-Static visual drains; High energy stop/reject takeoff; Hydraulic Harrison H fittings; Hydraulic pump shock mount contamination check; Electric motor driven pump after dry operation due to hydraulic fluid loss; Lavatory spill or leak; Bird strike condition; Rapid control reversal; Unscheduled engine checks.
- The current approved Maintenance Manual will be used in conjunction with this CAIP to provide detailed inspection techniques and maintenance procedures for individual tasks. All inspection intervals identified in the Challenger Maintenance Manual and the Instructions for Continued Airworthiness are tracked by CAMP. When hourly, landing cycle, or calendar limited inspections come due, a work order, as described in the General Maintenance Manual, will be issued and compiled by the DOM or his designee and provided to the appropriate persons performing the maintenance. In the event that a contract agency compiles the work package, the DOM or designee will assure that all required inspection and maintenance items are included. Upon completion of the work package, all maintenance records generated will be retained in the office of the DOM. The CAIP incorporates the latest revision of the Challenger Maintenance Manual. When an inspection or inspection task is scheduled, the agency performing the inspection will utilize the latest revision of the Challenger Maintenance Manual and the Continuous Airworthiness Inspection Program. The completed work package will be maintained in the maintenance office. Individual Inspection Task accomplishment will be documented on the Challenger Computerized Aircraft Maintenance Program (CAMP) work item card.

8 ENGINES INSPECTION PROGRAM

The following engine inspection schedule has been incorporated into the program from the latest revision of the engine manufacturer.

General Electric CF-34-3B Service Manual Current Publications are as depicted in the following table:

GE Maintenance Data Challenger 604		
Publication	Publication Reference	Revision No.
Service Manual	CF34 (SEI780)	“As Revised”
Equipment Manual	SEI-589	
Heavy Maintenance Manual	SEI-782	
IPC	SEI-779	

Maintenance Program

- The CF-34-3B Task Oriented (on condition) Engine Maintenance Program is contained in GE Service manual chapter 05-21-00 and is developed under the guidelines of the Air Transport Association (ATA). This program of manufacturer's recommendations consists of installed engine repetitive visual boroscope inspections of the engines external and internal components, specific maintenance checks and tasks, a performance trend monitoring program and compliance with the life limits as specified in chapter/section 05-11-00 as well as compliance with all manufacturer's service bulletins.

- The replacement intervals for life limited parts (05-11-00) must take precedence over all maintenance actions contained in the Task Oriented (on condition) Engine Maintenance Program. The inspection and maintenance intervals in GE Service Manual 05-21-00 are subject to the cycle life or hourly parts limits as described in 05-11-00 of the GE Service Manual.

- Individual Inspection Task accomplishment will be documented on the Computerized Aircraft Maintenance Program (CAMP) work item card
- The Maintenance Manual will be used in conjunction with this CAIP to provide detailed inspection techniques and maintenance procedures for individual tasks. Individual Inspection Task accomplishment will be documented on the Challenger Computerized Aircraft Maintenance Program (CAMP) work card.

Maintenance Program- Shop Level Requirements

- Table 603 in the GE Service Manual 05-21-00 contains significant time or cycle driven shop level maintenance actions which are recommended to be performed if the engine is removed from the aircraft for any reason.

Maintenance Program- Shop Mandatory Inspection Requirements

- This procedure is used to identify specific pieces or parts that require mandatory inspections that must be accomplished at each exposure in a GEAE authorized overhaul facility, using the applicable chapter referenced in Table 604 in the GE Service Manual 05-21-00 for inspection requirements. The inspection requirements listed in Table 604 are not required for any piece or part exposure resulting when the engine remains on-wing while performing chapter 72-00-00 maintenance practice 44.

9 APU INSPECTION PROGRAM

A general inspection for leakage at fittings, security of component part attachment, chafing of wiring harness and obstructions at inlet and exhaust areas shall be made at each inspection interval. Inspect tubes for chafing, cracks, signs of corrosion, or other damage. The approved Maintenance Manual will be utilized for maintenance information along with this CAIP to provide detailed inspection techniques and maintenance procedures for individual tasks. Reference Honeywell (AlliedSignal) Maintenance Manual 49-20-00. Individual inspection task accomplishment will be documented and tracked on the Computerized Aircraft Maintenance Program (CAMP) work item card.

APU Inspection Due Items

The inspection schedule information is in the CAIP and tailored to address the specific APU of:

Aircraft: **CL-604**

APU Model Number: **Honeywell GTCP 36-100E**

This APU will follow an ON-CONDITION maintenance concept. The Company will use the On-Condition maintenance concept for the GTCP 36-100E
APU in lieu of a firm overhaul time period. The International Air Transportation Association (IATA) definition of “ON CONDITION” is: “A primary maintenance process having repetitive inspections or tests to determine the conditions of units, systems or portions of structure with regard to continued serviceability (corrective action is taken when required by item condition)”.

The APU requires a Hot Section Inspection (HSI) every 2100 operating hours. The original HIS interval was 1500 operating hours; due to the Service Bulletin and modification status, the manufacturer has permitted an extension to 2100 operating hours. Periodic inspection requirements can be found in Honeywell (AlliedSignal) Maintenance Manual 49-20-00 Table 601.

10 LISTING OF ICA'S – CL-604 (CL600-2B16)

	TITLE	ICA Doc	CMP CODE
1	Passenger Oxygen System	MMP10-005	35-00-GA-9072,35-00-GA-9078 35-00-GA-9079,35-00-GA-9080 35-00-GA-9081,35-00-GA-9082 35-00-KCA-9049 35-00-KCA-9052 35-00-KCA-9057,351037-701A
2	Electronic Standby Instrument System	KCA-MMS-5365	34-12-00-201,34-12-00-202 341201-001B,341304-701A 342301-001
3	Second Radio Altimeter	KCA-MMS-5365	53-00-GA-9017
4	Metric Altimeter Display Selection	KCA-MMS-5365	No additional maintenance requirements outside of CL604 MM CHP 4/5 per ICA doc.
5	Second TCAS-II Directional Antenna	KCA-MMS-02	34-43-KCA-9009 34-43-KCA-9010 34-43-KCA9011 34-43-KCA-9012
6	Artex ELT	KCA-MMS-5365	256201-001C 256201-001D
7	SAT-AFIS	KCA-MMS-5365	No additional maintenance requirements outside of CL604 MM CHP 4/5 per ICA doc.
8	Heads UP Technologies CMS400 Checklist	KCA-MMS-5365	No additional maintenance requirements outside of CL604 MM CHP 4/5 per ICA doc.
9	Cabin Lighting System	KCA-MMS-5365	33-00-GA-9027,33-00-GA-9028 33-00-GA-9029,33-00-GA-9030 33-00-GA-9031
10	Remote Fuel System, APU Hour Meter, Door Ajar System	KCA-MMS-5365	No additional maintenance requirements outside of CL604 MM CHP 4/5 per ICA doc.
11	Magnastar Airborne Radio Telephone	KCA-MMS-5365	No additional maintenance requirements outside of CL604 MM CHP 4/5 per ICA doc.
12	Aerial View Camera System	KCA-MMS-5365	No additional maintenance requirements outside of CL604 MM CHP 4/5 per ICA doc.
13	Walter Kidde Type II Fire Extinguisher	Ref 337 #35	26-00-GA-9048,262301-702B 262301-002B,262301-701A 262301-701B,262301-702A 262301-702C,26503-701A
14	Upgrade ELT to include Nav interface unit	CL-604 MM chp 5 25-60-00-201 / Artex Periode Maintenance Instructions	256201-001C 256201-001D
15	Upgreaded Safe Flight Auto Power System to Enhanced System	TE-22305001-IFCA-2	22-00-CUS-9001

Note: Any maintenance on the Aircraft must be done in accordance with the above ICA documents