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GMM

CAIP APPENDIX 2c Gulfstream GIV

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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: **Gulfstream IV**

4 REVISIONS TO THE MAINTENANCE MANUAL

All Revisions to this appendix for the Gulfstream GIV 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 Gulfstream IV 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 Gulfstream IV Computerized Maintenance Program (CMP) will be used to track all the maintenance and inspections requirements.

6 AIRFRAME INSPECTION PROGRAM

The Gulfstream IV Chapter 5 Maintenance Program was prepared by Gulfstream 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 Gulfstream 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 Gulfstream GIV 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:
 - Scheduled Maintenance checks: The tasks in this section are mandatory. This section contains all programmed maintenance operations and frequencies to be carried out on the Aircraft.
 - Manufacturer Time between Overhaul/Scrap: This section lists all frequencies of Overhaul/Scrap time given in flying hours, calendar time or cycles as noted.
 - Life Limited Components:

- Section 05-01-00: Scheduled Maintenance Checks - This Section contains Certification Maintenance Requirements which are mandatory fixed intervals maintenance task requirements established during the Aircraft certification. Newly issued requirements and changes to existing requirements become effective by new revisions.

- Section 05-02-00: Manufacturer Time between Overhaul/Scrap – This section list all equipment not covered in Section 05-04-00 requiring a Major Overhaul/scrap time and the frequency between Overhaul/Scrap Items.

- Section 05-02-00(B) – Hydrostatic Testing of Bottles – Section “B” of Section 05-02-00 are for all Cylinders (DOT Specification) including spheres that must be inspected and tested as required by Title 49 CFR, part 180, section 180.205.

- Section 05-04-00: Life Limited Components – This Section lists all components that have a retirement or scrap time controlled by the FAA Engineering. The Retirement times cannot be changed by Gulfstream Operators.

- Section 05-05-00: Special Inspections – This Section lists those maintenance inspections on aircraft which are dictated by special or unusual conditions.

- Section 05-06-00: Special Inspection Requirements – This Section provides information for special inspection requirements.

- 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 Gulfstream Maintenance Manual and the Instructions for Continued Airworthiness are tracked by CMP. 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 Gulfstream Maintenance Manual. When an inspection or inspection task is scheduled, the agency performing the inspection will utilize the latest revision of the Gulfstream Maintenance Manual and the Continuous Airworthiness Inspection Program. The completed work package will be maintained in the maintenance office. Individual Inspection Task

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accomplishment will be documented on the Gulfstream Computerized Aircraft Maintenance Program (CMP) 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.

Rolls Royce Service Manual Current Publications are as depicted in the following table:

Rolls Royce Maintenance Data for Gulfstream IV		
Publication	Publication Reference	Revision
Calendar SB	70-1050	"As Revised"
Maintenance Manual	M-TAY-1RR	
IPC	611-1RR EIPC	
Time Limits Manual	T-TAY-1RR	

Maintenance Program

- The TAY 611-8 Task Oriented Engine Maintenance Program is contained in Rolls Royce Engine 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 well as compliance with all manufacturer's service bulletins.
- The replacement intervals for life limited parts Task 05-10-01-800-000 – Airworthiness Limitations must take precedence over all maintenance actions contained in the Task Oriented (on condition) Engine Maintenance Program. The inspection and maintenance intervals in Gulfstream Maintenance Manual 05-10-00 are subject to the cycle life or hourly parts limits as described in Ch.05-10-01 of the Time Limits Manual. The Calendar intervals for the TAY 611-8 are listed in the Non Modification Service Bulletin No.70-1050
- Individual Inspection Task accomplishment will be documented on the Computerized Maintenance Program (CMP) 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 Gulfstream IV Computerized Maintenance Program (CMP) work card.

Maintenance Program- Shop Level Requirements

- Table 603 in the 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 Rolls Royce authorized overhaul facility, using the applicable chapter referenced in TAY 611-8 Maintenance Manual 05-21-00 for inspection requirements. The inspection requirements listed in MM are not required for any piece or part exposure resulting when the engine remains on-wing while performing chapter 72-00-00 maintenance practices.

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 Maintenance Program (CMP) work item card.

APU Inspection Due Items

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

Aircraft: **Gulfstream IV**

APU Model Number: **Honeywell GTCP 36-150G**

This APU will follow an ON-CONDITION maintenance concept. The Company will use the On-Condition maintenance concept for the GTCP 36-150G 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 HSI 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.

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General Maintenance Manual
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10 LISTING OF ICA's – GULFSTREAM IV

	TITLE	ICA Doc	CMP CODE
1	Upgrade of the Transponder System	Refer to FAA Form 337 Dated 10/06/2004	No Additional Maintenance, refer to Collin Install Manual, to be tested every 24 Calendar months per FAR 91.413. Reference CMP 345311 and CMP 345312
2	Installation of Artex Model C406-N 406 MHz ELT	Refer to FAA Form 337 Dated 10/06/2004	256105, 256110, 256120 & 256130
3	Upgrade Existing Transponders to support Flight ID – Install of Gables 7614-()	Refer to FAA Form 337 Dated 1/25/2005 per STC ST02872AT-D and ICA Doc. No.CE41 126A000	No Additional Maintenance, refer Ch.5 of the GIV MM, to be tested every 24 Calendar months per FAR 91.413. Reference CMP 345311 and CMP 345312
4	Installation of TCAS version 7.1	Refer to STC No.ST02406LA and ICA Doc.No.8008572-001	. No Additional Maintenance, refer Ch.5 of the GIV MM. Refer to CMP 344341

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

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