

CONTINUING AIRWORTHINESS MANAGEMENT EXPOSITION (CAME)

Address : GALAXY AEROSPACE (M) SDN BHD
Suite 11-14, Helicopter Centre,
Malaysia International Aerospace Centre (MIAC),
Sultan Abdul Aziz Shah Airport,
47200 Subang,
Selangor Darul Ehsan

Tel No : +603 7734 7226

Fax No : +603 7734 7526

CAME Reference No : GAM/CAAM/CAME

Issue Number : Issue 2

Revision Number : Revision 4

Date of Issue : 29 April 2019

Date of Revision : TBA

Copy Number : GAM/CAME/01

Copy Holder : Civil Aviation Authority of Malaysia

AMENDMENT RECORD

REVISION NO.	DATE	DETAILS	BY	DATE
1	16-Aug-2019	<p>Chapter 5.1 To extract some internal forms out and maintain those that require CAAM approval.</p> <p>Chapter 5.2 To include Permit to Fly (PTF) approval for ARS and update names of ARS.</p> <p>Chapter 5.8 To include aircraft 9M-SAS belonging to His Royal Highness, Sultan of Pahang</p> <p>Chapter 5.10 To reflect the list of scope of maintenance activities for the issuance of PTF in the second level, Continuing Airworthiness Management Procedure (CAMP).</p>	CAMM	16-Aug-2019
2	24-Dec-2019	<p>Chapter 0.2 To include aircraft type A109E to GAM scope of work and update AMP reference.</p> <p>Chapter 5.2 To update ARS 01 approval for airworthiness review and permit to fly for type A109E</p> <p>Chapter 5.8 To update list of aircraft managed under GAM CAMO</p> <p>Chapter 5.9 To update manpower resources and include ARS function for PTF issuance in Manpower Resources and Management Tool</p>	CAMM	24-Dec-2019

REVISION NO.	DATE	DETAILS	BY	DATE
3	28-Jan-2020	<p>Chapter 0.2.4 Include aircraft type B300 to GAM scope of work and update AMP reference.</p> <p>Chapter 0.3.5.1 Include duties and responsibilities of Accountable Manager (AM) as acting Quality Assurance Manager (QAM) in the event of his absence.</p> <p>Chapter 0.8 - Include AM office and remove specific number of mobile compactors allocated for CAMO due to variable in description of facilities. - Update facility layout for CAMO department</p> <p>Part 1 (All pages) Reformatting to include numbering list system (a, b, c) for each paragraph.</p> <p>Chapter 1.1.1.1 - Rephrase term of "Certificate of Release to Service" to "Maintenance Release Certificate". - Correction on policy for the submission for approval of AJL through CAAM not QAM. - Rephrase term "Technical Log" to "Journey Log".</p> <p>Chapter 1.2 - Correction title from "Programmes" to "Programme"</p> <p>Chapter 1.2.1 - Typo correction from "Program" to "Programme"</p> <p>Chapter 1.3.2 Correction on policy to retain records for a period not less than 12 months in case of aircraft permanently withdrawn from service instead for a period not less than 36 months after the aircraft or component has been released to service.</p> <p>Chapter 1.4.1 - Remove form TIC no. GAM/CAMO-001 which is controlled under second level document.</p>	CAMM	28-Jan-2020

REVISION NO.	DATE	DETAILS	BY	DATE
3	28-Jan-2020	<p>Chapter 1.4.2 Correction on policy to record the compliance of Airworthiness Directive in the aircraft airworthiness records (Log Books) by GAM CAMO instead of by the contracted approved maintenance organisation.</p> <p>Chapter 1.6.1 Remove policy on special repair instructions issued and approved by the OEM to be considered as data approved by CAAM.</p> <p>Chapter 1.7.3 Correction of abbreviation from CAM to CAMM</p> <p>Chapter 1.8 Update policy from "Mandatory Occurrence Reporting" to "In Service Difficulty Reporting (ISDR)" as per requirement by CAAM.</p> <p>Chapter 1.11.1 Correction of abbreviation from CAM to CAMM</p> <p>Chapter 1.12.1 Rephrase term from "Maintenance Check Flight Schedule (MCFS)" to "Maintenance Flight Test Schedule (MFTS)"</p> <p>Chapter 1.12.2.2 Rephrase term from "Maintenance Check Flight Schedule (MCFS)" to "Maintenance Flight Test Schedule (MFTS)"</p> <p>Chapter 5.2 To add ARS privilege and ARS 02 approval for airworthiness review and permit to fly for type B300.</p> <p>Chapter 5.4 To update aircraft type capability for contracted AMO for type A109E, B300 and EC155B.</p> <p>Chapter 5.8 To update list of aircraft managed under GAM CAMO.</p>	CAMM	28-Jan-2020



REVISION NO.	DATE	DETAILS	BY	DATE
3	28-Jan-2020	Chapter 5.9 To update manpower resources for inclusion of aircraft type B300 in Manpower Resources and Management Tool.	CAMM	28-Jan-2020
4	TBA	Chapter 5.2 To add ARS approval for airworthiness review and permit to fly for type AW139.	CAMM	TBA

5.2 List of Airworthiness Review Staff

No	Aircraft Type	Hairee Mat		Azillah Matap		Ismail Sulaiman		Mohamed Safarin	
		(ARS 01)		(ARS 02)		(ARS 03)		(ARS 04)	
		AR	PTF	AR	AR	PTF	PTF	AR	PTF
1.	AW139	-	-	-	X	X	-	X	X
2.	EC120	-	-	-	-	-	-	-	-
3.	AS355	-	-	-	-	-	-	-	-
4.	A109S	-	-	-	-	-	-	-	-
5.	AW189	-	-	-	X	X	-	-	-
6.	EC155B	-	-	-	X	X	-	-	-
7.	EC155B1	-	-	-	X	X	-	-	-
8.	AS365N2	-	-	-	X	X	-	-	-
9.	BELL429	-	-	-	X	X	-	-	-
10.	A119	X	X	-	-	-	-	-	-
11.	A109E	X	X	-	-	-	-	-	-
12.	B300	-	-	X	-	-	X	-	-

5.9 Manpower Resources and Management Tool

CAMO MAN HOUR PLANNING

POSITION	HOURS/DAY	AVAILABILITY HOURS/WEEK	HOURS/YEAR
MANAGEMENT			
ACCOUNTABLE MANAGER	3	15	780
CAM	8	40	2080
QAM	4	20	1040
			<u>3900</u>

QUALITY ASSURANCE			
AMIRA	8	40	1920
KHAIR	8	40	1920
MUZRIM	4	20	960
CHUA	4	20	960
			<u>5760</u>

AIRWORTHINESS REVIEW STAFF			
ISMAIL SULAIMAN	4	20	960
HAIRIE	8	40	1920
AZILLAH	4	20	960
SAFARIN	8	40	1920
SYAFIQ	0	0	0
			<u>5760</u>

TECHNICAL SERVICE			
FARHANA	4	20	960
YASIR	4	20	960
YUS	4	20	960
ZAHIN	4	20	960
NIZAM	4	20	960
AKMAL	4	20	960
AMIRAH	4	20	960
ADI	4	20	960
IZAD	4	20	960
NURIN	4	20	960
			<u>9600</u>

MAINT PLANNER			
AISHAH	8	40	1920
AZLIZAN	8	40	1920
IKRAM	8	40	1920
IHSAN	8	40	1920
KHALIS	8	40	1920
			<u>9600</u>

TECHNICAL RECORD			
HAFIZ	8	40	1920
ZUL	8	40	1920
SHAHEERA	8	40	1920
HUSNA	8	40	1920
AMANI	8	40	1920
AINA	0	0	0
YASMIN	0	0	0
			<u>9600</u>

PUBLICATION			
NABILA	8	40	1920
			<u>1920</u>

TOTAL AUDIT + AMP REVIEW HOURS	3864
REMAINING HOURS	1896
STATUS	SATIS

TOTAL ARR + PTF HOURS	2856
REMAINING HOURS	2904
STATUS	SATIS

TOTAL RELIABILITY + TIC REVIEW + AMP/MEL HOURS	8840
REMAINING HOURS	760
STATUS	SATIS

TOTAL DATA ENTRY+PLANNING HOURS	8190
REMAINING HOURS	1410
STATUS	SATIS

TOTAL DATA ENTRY+TECH RECORD HOURS	8190
REMAINING HOURS	1410
STATUS	SATIS

TOTAL PUBLICATION HOURS	1612
REMAINING HOURS	308
STATUS	SATIS

	1. AUDIT CAMO				TOTAL	2. AUDIT CONTRACTED AMO				TOTAL	3. AMP REVIEW				TOTAL
	QUANTITY	(HR/D/AC)	DAYS	H/AC/YR)		(HR/D/AC)	DAYS	H/AC/YR)	(HR/D/AC)		DAYS	H/AC/YR)			
AW139	9	8	10	720	1680	8	10	720	1680	8	3	216	504		
AW 189	2	8	10	160		8	10	160		8	3	48			
EC120	1	8	10	80		8	10	80		8	3	24			
EC155B	1	8	10	80		8	10	80		8	3	24			
EC155B1	0	8	10	0		8	10	0		8	3	0			
AS365N2	0	8	10	0		8	10	0		8	3	0			
BELL 429	1	8	10	80		8	10	80		8	3	24			
A119	1	8	10	80		8	10	80		8	3	24			
A109E	1	8	10	80		8	10	80		8	3	24			
B300	5	8	10	400		8	10	400		8	3	120			

AIRWORTHINESS REVIEW STAFF

1. ARR

REG	(HR/DAY)	(DAYS)	H/AC/YR
9M-PMA	8	15	120
9M-PMB	8	15	120
9M-PMC	8	15	120
9M-PMD	8	15	120
9M-PME	8	15	120
9M-BOC	8	15	120
9M-BOD	8	15	120
9M-YPG	8	15	120
9M-YTL	8	15	120
9M-BOE	8	15	120
9M-BOF	8	15	120
9M-GGB	0	15	0
9M-SAS	8	15	120
EC155B1	0	0	0
AS365N2	0	0	0
9M-PEC	8	15	120
9M-PBH	8	15	120
9M-BOB	8	15	120
9M-PTA	8	15	120
9M-PTB	8	15	120
9M-PTC	8	15	120
9M-PTD	8	15	120
9M-PTE	8	15	120

TOTAL
2400

2. PTF

REG	(HR/PTF)	(PTF/YR)	(HR/PTF/YR)
9M-PMA	8	3	24
9M-PMB	8	3	24
9M-PMC	8	3	24
9M-PMD	8	3	24
9M-PME	8	0	0
9M-BOC	8	3	24
9M-BOD	8	3	24
9M-YPG	8	3	24
9M-YTL	8	3	24
9M-BOE	8	3	24
9M-BOF	8	3	24
9M-GGB	8	0	0
9M-SAS	8	3	24
EC155B1	0	0	0
AS365N2	0	0	0
9M-PEC	8	3	24
9M-PBH	8	3	24
9M-BOB	8	3	24
9M-PTA	8	3	24
9M-PTB	8	3	24
9M-PTC	8	3	24
9M-PTD	8	3	24
9M-PTE	8	3	24

TOTAL
456

TECHNICAL SERVICE

1. RELIABILITY

	(H/WEEK)	(H/YEAR)
AW139	36	1872
AW 189	8	416
EC120	0	0
EC155B	0	0
EC155B1	0	0
AS365N2	0	0
BELL 429	0	0
A119	0	0
A109E	0	0
B300	0	0

TOTAL
2288

2. TIC REVIEW

	(H/WEEK)	(H/YEAR)
	18	936
	4	208
	2	104
	2	104
	0	0
	0	0
	2	104
	2	104
	2	104
	10	520

TOTAL
2184

3. AMP/MEL

	(H/WEEK)	(H/YEAR)
	36	1872
	8	416
	4	208
	4	208
	0	0
	0	0
	4	208
	4	208
	4	208
	20	1040

TOTAL
4368

MAINT PLANNER

	1. DATA ENTRY				TOTAL	2. PLANNING				TOTAL
	QUANTITY	(HR/D/AC)	(HR/WK)	H/AC/YR		(HR/D/AC)	(HR/WK)	H/AC/YR		
AW139	9	0.5	22.5	1170	2730	1	45	2340	5460	
AW 189	2	0.5	5	260		1	10	520		
EC120	1	0.5	2.5	130		1	5	260		
EC155B	1	0.5	2.5	130		1	5	260		
EC155B1	0	0.5	0	0		1	0	0		
AS365N2	0	0.5	0	0		1	0	0		
BELL 429	1	0.5	2.5	130		1	5	260		
A119	1	0.5	2.5	130		1	5	260		
A109E	1	0.5	2.5	130		1	5	260		
B300	5	0.5	12.5	650		1	25	1300		

TECHNICAL RECORD

	1. DATA ENTRY				TOTAL	2. TECH RECORD				TOTAL
	QUANTITY	(HR/D/AC)	(HR/WK)	H/AC/YR		(HR/D/AC)	(HR/WK)	H/AC/YR		
AW139	9	0.5	22.5	1170	2730	1	45	2340	5460	
AW 189	2	0.5	5	260		1	10	520		
EC120	1	0.5	2.5	130		1	5	260		
EC155B	1	0.5	2.5	130		1	5	260		
EC155B1	0	0.5	0	0		0	0	0		
AS365N2	0	0.5	0	0		0	0	0		
BELL 429	1	0.5	2.5	130		1	5	260		
A119	1	0.5	2.5	130		1	5	260		
A109E	1	0.5	2.5	130		1	5	260		
B300	5	0.5	12.5	650		1	25	1300		

PUBLICATION

1. AIRFRAME

TYPE	(HR/DAY)	(H/AC/W)	H/AC/YR	TOTAL
AW139	0.2	1	52	416
AW 189	0.2	1	52	
EC120	0.2	1	52	
EC155B	0.2	1	52	
EC155B1	0	0	0	
AS365N2	0	0	0	
BELL 429	0.2	1	52	
A119	0.2	1	52	
A109E	0.2	1	52	
B300	0.2	1	52	

2. ENGINE

TYPE	(HR/DAY)	(H/AC/W)	H/AC/YR	TOTAL
PT6C-67C	0.2	1	52	416
CT7-2E1	0.2	1	52	
ARRIUS 2F	0.2	1	52	
ARRIEL 2C1	0.2	1	52	
ARRIEL 2C2	0	0	0	
ARRIEL 1C2	0	0	0	
PW207D1/2	0.2	1	52	
PT6B-37A	0.2	1	52	
PW206C	0.2	1	52	
PT6A-60A	0.2	1	52	

3. PROPELLER

TYPE	(HR/DAY)	(H/AC/W)	H/AC/YR	TOTAL
HARTZELL HC-B4MP-3C	0.2	1	52	52

4. AD

TYPE	(HR/DAY)	(H/AC/W)	H/AC/YR	TOTAL
FAA AD	0.2	2	104	780
EASA AD	0.2	8	416	
CAAM AN/AD	0.2	1	52	
TCCA AD	0.2	4	208	