A 1. HIRM REFERENCE NUMBER: GAM/SMS/H-122(21) 2 AREA/ OPERATION/ EQUIPMENT: GAM Aircraft Maintenance Organisat	tion $(\Lambda N \cap 145)$		*	
	aircraft Cessna 172, Caravan U208 and Pilatus PC-6.		GalaxyAerospace	
5. ULTIMATE CONSEQUENCE [UC]: The operation not carried out in a co	ontrolled environment.		maintenance . repair . overhaul HAZARD IDENTIFICATION AND	
Date Conducted5-Aug-21Revision0	Conducted bySafety DepartmentReceived bySafety Department	Approved byMohammad Nizam Jaafar (SM)Document No.GAM/SMS/HRC-003-01/21	RISK MANAGEMENT (HIRM) FORM	
B         1         2         3         4         5         6         7         8         9         10         11         12	13     14     15     16     17     18     19     20     21     22     23     24	25 <u>26 27 28 29 30 31 32 33 34 35 36</u>	37     38     39     40     41     42     43     44     45     46     47	
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	tigation (as applicable) >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Existing Recovery Measures [E-RM]       RI & T	Image: Second constraints     New Recovery Measures [N-RM]     RI & T	
rd / Threstem stem ating ating isory/ isory/ n r control Control	stem bn/ bn/ iating isory/ isory/ isory/ isory/ isk	stem bn/ nt ating 'isory/ h h k Index k Index	on/ n ating 'isory/ n control Consec	
Haza Backup/ ndby sys regulatic td Oper cedure sification others bthers bthers alation   erability	backup/ backup/ ndby sys tegulatic tegulat tegulatic teg	backup/ backup/ hdby sys tegulatic tegulat tegulatic tegulatic tegulatic tegulatic tegulatic teg	tegulatic tegulatic tegulatic tegulatic tegulatic tegulatic sm/ Adv sm/ Adv sm	
66.     1. B       1. B     1. B       1. B     1. B       1. B     1. B       1. B     1. B       2. R     3. S       3. S     3. S       3. S     1. B       1. B     1. B       1. B     1. B       2. R     1. B       3. S     1. B       3. S     1. B       1. C     1. B       1. D     1. B       1. D     1. B       1. C     1. B       1. D     1. B <tr< td=""><td>1. B     1. B     1. B     1. B       1. B     1. B     1. B     1. B     1. B       1. C     1. C     1. C     1. C     1. B       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     <t< td=""><td>ta. 1. B 1. B 1</td><td>ed Tolo Resc. 7. 0 11 100 12. R</td></t<></td></tr<>	1. B     1. B     1. B     1. B       1. B     1. B     1. B     1. B     1. B       1. C     1. C     1. C     1. C     1. B       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C     1. C     1. C       1. C     1. C     1. C <t< td=""><td>ta. 1. B 1. B 1</td><td>ed Tolo Resc. 7. 0 11 100 12. R</td></t<>	ta. 1. B 1. B 1	ed Tolo Resc. 7. 0 11 100 12. R	
E-PC1 E-PC2 E-PC1 EF>E-	N+C1         PC1         91		N-RM1     Image: N-RM2     Image: N	
light for the l		Le rente de la company de la c	O     O     O     O     O       J     O     O     O     O     O	
E-PC4 E-PC4 E-PC4 E-PC4 EC>EF>E-PC4 PC4 PC4 2C 20 PC4	The sectify a sector of the se	ate Risl	Risk Risk 10 Landon	
OWA No.     E-bC2     EE-be-be-be-be-be-be-be-be-be-be-be-be-be-	ertified Lo	Woder Woder	Protection of the second secon	
ITZ2, Ca	ity of o	eduip	ation r	
Vddition	vailabil.	ateria a la	je obe	
C Description of Evisting Dreventive Controls [E DC]				
Description of Existing Preventive Controls [E-PC] E-PC1: MOC raised as a notification and preparation	Description of New Preventive Controls [N-PC] N-PC1: To updated tools list between PGU and GAM.	Description of Existing Recovery Measures [E-RM] E-RM1: Conduct biweekly meetings with PGU and follow up any unresolved issues.	Description of New Recovery Measures [N-RM] N-RM1: To perform periodically surveillance by Safety & Quality as MOE	
EF>E-PC1:	EF>N-PC1: Overlook the expiry date or calibration dates	EF>E-RM1:	EF>N-RM1:	
EC>EF>E-PC1:	EC>EF>N-PC1:	EC>EF>E-RM1:	EC>EF>N-RM1:	
E-PC2: Manpower required for the operation as manpower list.	N-PC2: Appropriate procedure to meet the requirements of "Qualified Personnel" for aircraft type as per MOE Part 3.4.5	E-RM2: Monitor and follow up the forecast system as per maintenance schedule.	N-RM2: Perform verification audit prior the real audit by authority.	
EF>E-PC2: Insufficient Qualified personnel for aircraft type.	EF>N-PC2: Insufficient additional training as required.	EF>E-RM2:	EF>N-RM2:	
EC>EF>E-PC2:	EC>EF>N-PC2: Scheduled for the appropriate training and update in training record for monitoring purposes.	EC>EF>E-RM2:		
E-PC3: Facilities are provided by PGU (hangar, store and office)	N-PC3:	E-RM3: Quality Physical Audit as per MOE Part 3.1.2	dit as per MOE Part 3.1.2 N-RM3:	
EF>E-PC3: To meet the standard of authority and safety requirement	EF>N-PC3:	EF>E-RM3:	EF>N-RM3:	
EC>EF>E-PC3: Facility audit / Desktop audit as per MOE 3.1	EC>EF>N-PC3:	EC>EF>E-RM3:		
E-PC4: Adequate and appropriate standard tools, GSE and Maintenance platform as per MOE Part 2.4	N-PC4:	E-RM4:		
EF>E-PC4: The equipment may not meet the standard of authority compliance which lead to be an unsafe working environment	EF>N-PC4:	EF>E-RM4:	EF>N-RM4:	
EC>EF>E-PC4: to ensure PGU follow authority requirement.	EC>EF>N-PC4:	EC>EF>E-RM4	EC>EF>N-RM4:	
E-PC5: Mandatory training provided to all maintenance staff as per MOE Part 3.4.5	N-PC5:	E-RM5:	N-RM5:	
EF>E-PC5: Required specific training base on aircraft type.	EF>N-PC5:	EF>E-RM5:	EF>N-RM5:	
EC>EF>E-PC5:	EC>EF>N-PC5:	EC>EF>E-RM5:	EC>EF>N-RM5:	
D 5-1. Existing Risk Index [Hazard > Unsafe-Event]	5-2. Resultant Risk Index [Hazard > Unsafe-Event]	5-3. Existing Risk Index [Unsafe-Event > Consequence]	5-4. Resultant Risk Index [Unsafe-Event > Consequence]	
A Assessed Existing Severity level of the UE [Wsht 5]:CB Therefore, UE's Optimum No of Barriers (ONB) [Wsht 4A, Table3]:4C Applicable CBSV-Likelihood Table for this severity level [Table 3]:4 (iii)	AAssessed Existing Severity level of the UE [Wsht 5]:CBTherefore, UE's Optimum No of Barriers (ONB) [Table3]:4CApplicable CBSV-Likelihood Table for this severity level [Table 3]:4 (iii)	AAssessed Existing Severity level of the UC [Wsht 5]:CBTherefore, UC's Optimum No of Barriers (ONB) [Table3]:4CApplicable CBSV-Likelihood Table for this severity level [Table 3]:4 (iii)	AAssessed Existing Severity level of the UC [Wsht 5]:CBTherefore, UC's Optimum No of Barriers (ONB) [Table3]:4CApplicable CBSV-Likelihood Table for this severity level [Table 3]:4 (iii)	
D Assessed BSV of individual Existing PCs [Table 1]: E-PC1 2 E-PC2 3 E-PC3 4 E-PC4 4 E-PC4 4 E-PC5 4 E-PC6 0 E-PC7 0 E-PC8 0	D       Assessed BSV of individual Existing PCs & New PCs [Table 1]:         E-PC1       2       N-PC1       5         E-PC2       3       N-PC2       5         E-PC3       4       N-PC3       0         E-PC4       4       N-PC5       0         E-PC5       4       N-PC6       0         E-PC7       0       N-PC7       0         E-PC8       0       N-PC8       0	DAssessed BSV of individual Existing RMs [Table 1]:E-RM14E-RM24E-RM34E-RM40E-RM50E-RM60E-RM70E-RM80	D       Assessed BSV of individual Existing RMs & New RMs [Table 1]:         E-RM1       4       N-RM1       4         E-RM2       4       N-RM2       5         E-RM3       4       N-RM3       0         E-RM4       0       N-RM4       0         E-RM5       0       N-RM5       0         E-RM6       0       N-RM6       0         E-RM7       0       N-RM7       0         E-RM8       0       N-RM8       0	
E Therefore, CBSV (SUM) of all E-PCs:	E Therefore total (SUM) BSV of all E-PCs plus N-PCs: 27	E Therefore, CBSV (SUM) of all E-RMs:	E Therefore total (SUM) BSV of all E-RMs plus N-RMs: 21	
F Assess CBSV of ONB (Applicable if E-PCs are more than ONBs):       15         (Choose barriers with highest BSVs for this ONB-CBSV calculation)	F       Assess total BSV of ONB (Applicable if E-PCs + N-PCs is more than ONBs):       18         (Choose barriers with highest BSVs for this ONB-CBSV calculation)       18	F       Assess CBSV of ONB (Applicable if E-RMs is more than ONBs):       12         (Choose barriers with highest BSVs for this ONB-CBSV calculation)       12	F Assess total BSV of ONB <u>(Applicable if E-RMs + N-RMs is more than ONBs):</u> (Choose barriers with highest BSVs for this ONB-CBSV calculation) 17	
G Existing CBSV of UE (item E or F, whichever is applicable):	G Resultant CBSV of UE (item E or F, whichever is applicable):	G Existing CBSV of UC (item E or F, whichever is applicable):	G Resultant CBSV of UC (item E or F, whichever is applicable): 17	
H Existing Likelihood of the UE (CBSV-Likelihood Table of item 3):	H       Resultant Likelihood of UE (CBSV-Likelihood Table of item 3):       1         L       Resultant Risk Index of the UE [Sht8, PL & Telerability]:       10	H       Existing Likelihood of the UC (CBSV-Likelihood Table of item 3):       2         L       Existing Risk Index of the UC [Sht% RI & Telerability]:       2C	H       Resultant Likelihood of UC (CBSV-Likelihood Table of item 3):       1         L       Resultant Risk Index of the UC [Sht8_RL8_Telerability]:       10	
I Existing Risk Index of the UE [Sht8, RI & Tolerability]: 2C J Existing Tolerability of the UE: Moderate Risk	I       Resultant Risk Index of the UE [Sht8, RI & Tolerability]:       1C         J       Resultant Tolerability of the UE:       Low Risk	I       Existing Risk Index of the UC [Sht8, RI & Tolerability]:       2C         J       Existing Tolerability of the UC:       Moderate Risk	I       Resultant Risk Index of the UC [Sht8, RI & Tolerability]:       1C         J       Resultant Tolerability of the UC:       Low Risk	
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GAM/SMS/HRC-003-01/21	

Ultimate Consequence			
The operation not carried out in a controlled	environment.		
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