A																																							
1. HIRM REFERENCE NUMBER:		. /																																					
2 AREA/ OPERATION/ EQUIPMENT: 3. HAZARD / THREAT [H/T]:					new line maintenance															GalaxyA erospace ^{**}																			
	PGU Kuching as new operation and new line maintenance Difficulty to perform aircraft maintenance as per schedule.																			maintenance.repair.overhaul																			
5. ULTIMATE CONSEQUENCE [UC]:					due to not comply to the Authority standard maintenance requirement.																																		
Date Conducted	21												ammad N			,	nager)	RISK MANAGEMENT (HIRM) FORM																					
Revision		Received by Safety Department								ent	Document No. GAM/SMS/HRC-003-01/21																												
B 1 2 3 4 5 6 7	8 9				13	14 15				19 20	21	22	23	24	25	26	27 2	29	30	31	32	33	34	35	36	37 :	8 39	40	41	42	43	44	45	46 47					
	·>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	·>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	1	Event Mitig	gation (as appl	licable) >>>>>	New Preventi			>			1&T	4			Eviation	>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	·>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	·····	>>> Ultin	nate Cons Ri 8	equence	Mitigation	(as applicable)	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	overy Mea	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>			RI	en ce					
Existing Preventive Controls [E-P	-cj 5		N		-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	New Prevent		s [N-FC]	5				Event	-			Recovery N	ieasures [t		5			* 1	-		<u>New</u> Key		isules [iv-h		5		N	ed n					
Hazard / Backup/ mdby system mdby system regulation/ quirement quirement quirement stand maint gram fiffication trification	thers lation Fact	lation trol [EC]	ting Risk x	rability	ackup/ dby system	egulation/ Lirement d Operatin	spn/ Maint gram	fication	aining	thers lation Fact	lation trol [EC]	iltant Risk x	rability	Unsafe I	ackup/ dby system	egulation/ uirement	edure spn/ Maint	gram M/ Advisor fication	aining	thers	lation Fact	lation trol [EC]	ting Risk x	rability	ackup/ dby system	egulation/ uirement d Operatin	spn/ Maint	M/ Advisor	aining	Others	lation Fact	calation ntrol [EC]	iltant Risk x	rability timate Con					
e 22. 24. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	7. O Esca	Esca	Exist Inde	Tole	1. Ba	N-PC1	4. In prog	Noti o	6. Tr	2 0 2 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0	Esca	Resu	Tole	as	1. Ba	2. Re Requ	Proc 4. In	5. GI	6. Tr	E-RM1	Esca [EF]	Esca	Exist Inde	Tole	1. Ba stan	2. Re Requ 3. St	Proc 4. In	5. G	6. Tr	N-RM1	Esca [EF]	Esca	Resu	not Tole					
E-PC2	EF>E- PC2					N-PC2				PC1 EF>N- PC2	EC>EF> PC2	N		tenance			E-RN	12												N-RM1				i due to ndard					
Б. E-РСЗ	EF>E- PC3	EC>EF>E PC3		<u>×</u>										nain '						E-RM3				~										ation y star					
E-PC4	EF>E- PC4	EC>EF>E PC4	9	te Risk									Xisk	craft edule										te Ris]	Risk / reputa uthority					
d bi	EF>E- PC5	104	2C	loderat								10	Low F	orm airc er schee									2C	loderat									1C	he Aut					
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Description of Existing Preventive Co		Description of New Preventive Controls [N-PC]										Description of Existing Recovery Measures [E-RM]										Description of New Recovery Measures [N-RM]																	
	E-PC1: MOC raised as a notification and preparation						N-PC1: To updated tools list between PGU and GAM.										E-RM1: Conduct biweekly meetings with PGU and follow up any unresolved issues.										-	periodic	ally surv	eillance	by Safet	ty & Qua	ility as N	OE					
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 mar		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 aircrat		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:									EC>EF>N-RM2:																			
E-PC3: Facilities are provided by PGU (hangar, store		N-PC3:]	E-RM3: Quality Physical Audit 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:										EC>EF>N-RM3:														
E-PC4: Adequate and appropriate standard tools, GSE and Maintenance platform as per MOE Part 2.4					N-PC4:										E-RM4:										N-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 maintena 3.4.5	1	N-PCS:										E-RM5:										N-RM5:																	
EF>E-PC5: Required specific training base on aircraft	t type.			1	EF>N-PC5:										EF>E-RN	//5 :										EF>N-RM5:													
EC>EF>E-PC5:		EC>EF>N-PCS:										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]:			С	-									с	-									I	с										с					
B Therefore, UE's Optimum No of Barriers (ONB) [Wsht 4A, Table: C Applicable CBSV-Likelihood Table for this severity level [Table 3]		A Assessed Existing Severity level of the UE (Wsht 5]: C B Therefore, UE's Optimum No of Barriers (ONB) [Table3]: 4 C Applicable CBSV-Likelihood Table for this severity level [Table 3]: 4 (iii)										A Assessed Existing Severity level of the UC (Wsht 5]: C B Therefore, UC's Optimum No of Barriers (ONB) [Table3]: 4 C Applicable CBSV-Likelihood Table for this severity level [Table3]: 4									A Assessed Existing Severity level of the UC [Wsht 5]: C B Therefore, UC's Optimum No of Barriers (ONB) [Table3]: 4 C Applicable CBSV-Likelihood Table for this severity level [Table3]: 4																		
D Assessed BSV of individual Existing PCs [Table 1]:					D Ass	sessed BSV of	individual Existi	ng PCs & Ne	ew PCs [T	[able 1]:		_	_		D	Assessed BS	of individu	al Existing R	Ms [Table	1]:	_					D Asse	ssed BSV of	individual	Existing RN	1s & New R	Ms [Table	e_1]:							
E-PC1 E-PC2 E-PC3 E-PC4 E-PC5 E-PC6 E-PC6 E-PC7 E-PC8			E-PC1 2 N-PC1 5 E-PC2 3 N-PC2 5 E-PC3 4 N-PC3 0 E-PC4 4 N-PC4 0 E-PC5 4 N-PC6 0 E-PC6 0 N-PC6 0 E-PC7 0 N-PC7 0 E-PC8 0 N-PC7 0										E-RM1 4 E-RM2 4 E-RM3 4 E-RM4 0 E-RM5 0 E-RM5 0 E-RM6 0 E-RM7 0 E-RM8 0								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-RM6 0 E-RM6 0 N-RM6 0 E-RM7 0 N-RM6 0																		
E Therefore, CBSV (SUM) of all E-PCs:	0		17		E The	erefore total (SUM) BSV of all			-	14-FC8		27		E	Therefore, C	ISV (SUM) a				-		I	12		E Ther	efore total	(SUM) BSV				4		21					
F Assess CBSV of ONB (<u>Applicable if E-PCs are more than ONBs):</u> (Choose barriers with highest BSVs for this ONB-CBSV calculatio												Assess CBSV of ONB (<u>Applicable if E-RMs is more than ONBs):</u> (Choose barriers with highest BSVs for this ONB-CBSV calculation)									F Assess total BSV of ONB (<u>Applicable if F-RMs + N-RMs is more than ONBs)</u> ; (Choose barriers with highest BSVs for this ONB-CBSV calculation)																		
G Existing CBSV of UE (item E or F, whichever is applicable):	15				f UE (item E or						18										12		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):	2		H Resultant Likelihood of UE (CBSV-Likelihood Table of item 3):									1	H Existing Likelihood of the UC (CBSV-Likelihood Table of item 3):										H Resultant Likelihood of UC (CBSV-Likelihood Table of item 3):																

H Existing Likelihood of the UE (CBSV-Likelihood Table of item 3): I Existing Risk Index of the UE [Sht8, RI & Tolerability]: J Existing Tolerability of the UE:

2C Moderate Risk

1 1C H Resultant Likelihood of UE (CBSV-Likelihood Table of item 3): I Resultant Risk Index of the UE [Sht8, RI & Tolerability]: J Resultant Tolerability of the UE:

I Existing Risk Index of the UC [Sht8, RI & Tolerability]: J Existing Tolerability of the UC:

2C Moderate Risk

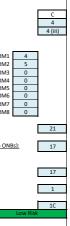
N-RM4	4:
EF>N-I	RM4:
EC>EF:	>N-RM4:
N-RM	5:
EF>N-I	RM5:
EC>EF:	>N-RM5:
i-4.	Resultant Risk Index [Unsafe-Event > Consequence]
AB	Assessed Existing Severity level of the UC [Wsht 5]: Therefore, UC's Optimum No of Barriers (ONB) [Table3]:
c	Applicable CBSV-Likelihood Table for this severity level [Table 3]:
D	Assessed BSV of individual Existing RMs & New RMs [Table 1]: E-RM1 4 E-RM2 4 E-RM3 4 E-RM3 4 E-RM4 0 E-RM5 0 E-RM6 0 E-RM7 0 E-RM8 0
Е	Therefore total (SUM) BSV of all E-RMs plus N-RMs:
F	Assess total BSV of ONB <u>(Applicable if E-RMs + N-RMs is more t</u> (Choose barriers with highest BSVs for this ONB-CBSV calculation)
G	Resultant CBSV of UC (item E or F, whichever is applicable):
н	Resultant Likelihood of UC (CBSV-Likelihood Table of item 3):

I Resultant Risk Index of the UC [Sht8, RI & Tolerability]: J Resultant Tolerability of the UC:

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