



School(s):	Earth and Environment	Group/PI:	FAAM (NCAS)
Risk Assessment Title:	Hangar Risk Assessment	Assessment No:	1
Location of Activity:	Hangar 1, Cranfield Airport, Cranfield, UK	Name of Assessor:	Steven Norfolk/Jamie Trembath
Details of Activity:	FAAM activities in Hangar 1.		
Other assessments or documents which might also be required, X if needed:			
Manual Handling	X	COSHH	<input type="checkbox"/>
Noise	<input type="checkbox"/>	Other (please specify)	Working at height, loading the hold RA, SSOW, FAAM Tool Control Procedure , hangar 1 access procedure, Working around the aircraft procedure

Signature of Assessor	
Signature: J.A Trembath	Date: 13/03/2024
Signature of Manager(s)	
"The risks identified in this assessment are controlled so far as is reasonably practicable"	
Signature: A.M.Woolley	Date: 13/03/24

Date of Reassessment (Every two years minimum)	Are There Any Changes To The Activity Since The Last Assessment?	Signature of Manager



	School	Role	Signature	Date

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	2 of 14

LIKELIHOOD (L)	
5	Inevitable
4	Highly Likely
3	Possible
2	Unlikely
1	Remote Possibility

SEVERITY (S)	
5	Very High –Death or permanent disability
4	High – Serious injury (hospital admission)
3	Moderate - RIDDOR over 7 days
2	Slight - First Aid treatment
1	Nil - Very Minor

RISK RATING	ACTION
1 – 4	Broadly Acceptable - No action required
5 – 9	Moderate - Reduce risks if reasonably practicable
10 – 15	High Risk - Priority Action to be undertaken
16 – 25	Unacceptable - Action must be taken IMMEDIATELY

RISK RATING = LIKELIHOOD X SEVERITY						
S E V E R I T Y (S)	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5
		1	2	3	4	5
		LIKELIHOOD (L)				

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	3 of 14

PROCESS / ACTIVITY NO.	HAZARD e.g. Falling Objects, Fire, Explosion, Noise, Violence etc.	PERSONS AT RISK e.g. Employees, Contractors, Members of the public	POSSIBLE OUTCOME	RISK RATING WITHOUT CONTROLS (LXS)	CONTROL MEASURES e.g. Guards, Safe Systems of Work, Training, Instruction, Authorised Users, Competent Persons, Personal Protective Equipment (PPE)	RISK RATING WITH CONTROL S (LXS)	FURTHER ACTION REQUIRED? Yes/No
------------------------------	--	---	------------------	--	--	---	--

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	4 of 14

1	Slips trips and falls	<p>Employees (FAAM)</p> <p>Clients (FAAM users)</p> <p>Contractors (Avalon and Airtask)</p> <p>Members of the public (visitors)</p>	Bruising, cuts, grazes, more severe injuries such as fractures or concussion.	2x3=6	<ul style="list-style-type: none"> ● Good housekeeping practices followed, including regular removal of rubbish. ● Small spillages are reported to Avalon cleaned up immediately. ● Large spillages are reported to Avalon. ● Be vigilant for trailing GPU cables and chocks and uneven ground. ● Airside pass-holders who have completed training in accessing airside safety (currently an online module procured by Airtask). Pass validity, and training, is 2-yearly. ● Staff being escorted by an airside passholder (trained as above) via a recognised and agreed route with FBO/Airtask ● All Directflight pass holders will have to watch a pan safety briefing to receive their pass. ● Damaged surfaces are reported to Cranfield Estates helpdesk for attention. ● Trailing cables are not to be left in walkways and are fixed with cable covers where possible. ● Work areas kept clear e.g., no boxes left in walkways. ● Deliveries stored immediately. ● All accidents, incidents and near misses are reported on Sentinel via FAAM's incident reporting form. ● Read and follow the FAAM Hangar 1 Access procedure, here ● Read and follow Working around the aircraft procedure. 	1x3=3	No
---	-----------------------	---	---	-------	--	-------	----

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	5 of 14

2	Working Environment / Workplace	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Various, dependent on the issue.	3x3=9	<ul style="list-style-type: none"> ● Means of heating, ventilation and cooling normally provided ● Staff are not expected to work when the ambient temperature is below 16°C. ● Additional task lighting is provided where needed. ● Space allocation complies to a minimum with the Workplace Regulations. ● Good standard of housekeeping is maintained. ● All concerns are reported to the Line Manager or Health and Safety Officer/Manager. ● Annual Safety inspections are carried out by the Faculty Health and Safety team, to identify any workspaces which are unsuitable for use. ● Unfamiliarity, those not in possession of an airside pass will need escorting 	1x3=3	No
---	---------------------------------	--	----------------------------------	-------	--	-------	----

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	6 of 14

3	Manual Handling	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Musculoskeletal injury, injury to back due to lifting and carrying equipment, boxes of stationary et	3x3=9	<ul style="list-style-type: none"> • Significant Manual Handling tasks are not completed out of hours (requires manual handling risk assessment or mechanical handling aid). • Staff must adhere to the Wellbeing, Safety and Health guidance https://wsh.leeds.ac.uk/general-safety/doc/manual-handling • Staff are instructed to carry out the online manual handling training https://leedsuni.britsafelearning.com/login/index.php • All accidents, incidents and near misses are reported on Sentinel via FAAM's incident reporting form. Appropriate triggers are in place to ensure further investigation. • Loading/unloading the FAAM BAe-146 has its own specific risk assessment found here and a safe system of work here 	2x3=6	No
---	-----------------	--	--	-------	---	-------	----

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	7 of 14

4	Lone Working outside building open times (weekdays 17:00 - 08:00, weekends and University closed days)	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Injury or ill health while no assistance is available. Potential violence or injury from a third party who has gained unauthorised access.	2x4=8	<ul style="list-style-type: none"> Staff are made aware of the Faculty Out of Hours Procedure. Before Out of Hours is permitted, the risks are assessed to ensure that the activity can be carried out by an individual without significant risk. Out of Hours is to be recorded, using the Faculty Out of Hours Form. Staff and students working alone are required to inform their line manager/academic supervisor of any pre-existing medical condition that would increase their risk when working alone (e.g., heart condition). Persons who have declared a health problem may be considered unsuitable for lone working in certain circumstances since emergencies may impose additional physical and mental burdens on the individual. Follow any specific arrangements identified as part of additional risk assessments for the Out of Hours activity. All accidents, incidents and near misses are reported on Sentinel via FAAM's incident reporting form. 	1x4=4	No
5	Noise	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Hearing damage or loss, transient or permanent		Need to put something in here about the Hangar possibly being noisy.		

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	8 of 14

6	Violence and Aggression	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Harm due to physical violence. Stress related to actual and / or perceived threat level.	3x3=9	<ul style="list-style-type: none"> ● Building is secure. ● Any potential for violence and aggression is identified. ● Staff that are working in an environment where the risk of violence / aggression has been identified are briefed on recognising and diffusing the situation where possible. ● All incidents and concerns are reported either to the line manager, Security or the Health and Safety Officer/Manager. 	1x3=3	No
7	Fire	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Entrapment, burns, smoke inhalation, loss or damage to the building	2x4=8	<ul style="list-style-type: none"> ● Staff are informed of the procedures in the event of discovering a fire or in the event of a fire alarm via staff induction ● All staff undertake the online fire training package https://leedsuni.britsafelearning.com/login/index.php ● Staff are made aware of the University Standard and Guidance on Fire Safety http://wsh.leeds.ac.uk/info/185/fire_safety/108/fire_safety ● All areas are included in a fire risk assessment. ● Regular 4 weekly fire checks are carried out by designated fire wardens, and these are recorded. ● Fire evacuation drills take place regularly. ● Where possible appliances are switched off at the end of the day. ● All accidents, incidents and near misses are reported on Sentinel via FAAM's incident reporting form.. Appropriate triggers are in place to ensure further investigation 	1x4=4	No

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	9 of 14

8	Hangar Machinery, Fork lifts, GPUs, Tugs, Other aircraft movements etc	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Bruising, cuts, grazes, more severe injuries such as fractures, crushing or concussion.	3x4=12	<ul style="list-style-type: none"> ● All staff with access have airside passes and have undertaken airside safety training ● Those without airside passes will be escorted at all times by an airside pass holder. ● Machinery kept off walkways ● Staff should remain vigilant at all times working in the hangar ● Avalon supervise all works involving heavy machinery around the aircraft ● If engineers are using machinery around the aircraft, delay work or work elsewhere ● Staff, visitors, etc should not operate or ride on any powered equipment. ● Staff, visitors, etc should under no circumstances operate the hangar doors. ● All accidents, incidents and near misses are reported on Sentinel via FAAM's incident reporting form. 	1x4=4	No
---	--	--	---	--------	--	-------	----

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	10 of 14

9	FOD	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	failure of aircraft parts to catastrophic failure of aircraft in flight leading to multiple deaths	3x5=15	<ul style="list-style-type: none"> All staff have completed airside training, all visitors will have received at a minimum induction training that highlights the dangers of FOD. This is personal awareness and training. Foreign Object Debris, includes any object found in an inappropriate location that can damage equipment and aircraft system or injure personnel All FOD should be picked up and put in bins in the hangar and Avalon alerted to its existence, providing coordination and communication. All FAAM equipment should be well maintained and all FAAM staff maintaining those equipment should have had human factors and EWIS training. Any staff that need to use tools must have been given tool control training and have read and off and signed the FAAM Tool Control Procedure 	1x5=5	No
---	-----	--	--	--------	--	-------	----

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	11 of 14

10	Fall from height or falling items due to working at height. Including storage and retrieval of FAAM items on hangar racking and store room racking.	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	Bruises, fractures, strains, cuts, abrasions, concussion.	2x4=8	<ul style="list-style-type: none"> Where possible, working at height is eliminated and storage materials is at standing level. Where working at height can not be avoided please use FAAM's working at height RA Where storage requiring access at height is unavoidable, Items are limited to those not requiring frequent use and are not bulky or heavy. Appropriate access equipment is supplied and periodically inspected/tagged by a competent person. Information and instruction provided, and user checks carried out prior to use. There is a process in place for reporting defects. All accidents, incidents and near misses are reported on Sentinel via FAAM's incident reporting form. 	1x4=4	No
11	Other hangared aircraft	Employees (FAAM) Clients (FAAM users) Contractors (Avalon and Airtask) Members of the public (visitors)	injury risk, onward risk from damage to those aircraft	2x4=8	<ul style="list-style-type: none"> Always undertake a dynamic risk assessment when leaving the perimeter walkway Follow training (airside and induction), do not walk under wings or in the footprint of other aircraft. If you have walked into or damaged another aircraft inform the engineers and escalate this. All accidents, incidents and near misses are reported on Sentinel via FAAM's incident reporting form. Appropriate triggers are in place to ensure further investigation 	1x4=4	No



Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	12 of 14

ACTION			
If further action has been identified above, describe what needs to be done, by whom with agreed timescales for completion			
Description	Who	Target Date	Completed On

COMMENTS AND INFORMATION
Use this section to record any additional information, comments, dynamic risk assessment comments etc.

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	13 of 14

Process / Activity Log

PROCESS / ACTIVITY	PROTOCOL REF. NO. <small>e.g. SOP, COSHH, OOH/LONE WORKING</small>
1. General access	Hangar 1 Access Procedure
2. Manual Handling information	Manual Handling
3. Manual Handling training	Britsafe manual handling training
4. Manual Handling, loading the hold risk assessment	 Loading the Forward Hold
5. Manual Handling, loading the sold SSOW	 Safe System of Work: Manual Handling Relating to Loading/Unloading the Air...
6. Lone working bv	Faculty out of hours work
7. Fire Safety training	Britsafe fire safety training
8. Fire Safety guidance	UoL guidance on fire safety
9. Working at height	FAAM working at height
10. All	FAAM's incident reporting form
11. FAAM Tool Control Procedure	FAAM Tool Control Procedure
12. Working safely around the aircraft	Working around the aircraft procedure
13.	
14.	
15.	

Document Title	Version	Author	Issue Date	Approved	Page Number
Hangar Risk Assessment	1	SN/JT	March 2024	AW	14 of 14