


SAFETY RISK ASSESSMENT (HIRARC) FORM


Document No.:	GALAXY-HSE-SMS
Release date:	12 April 2019
SMS Page:	APPENDIX C

HIRARC NO.:	GAM/SMS/H-69(19)	Date conducted:	10 April 2019	Conducted by:	Nizam (SM)	Approved by:	Mohammad Nizam Jaafar
Process/ Location:	GAM Nicad and Lead Acid Battery Workshop	Revision:	0	Received By:	Salman (QAM)	Signature:	

Hazard Identification				Risk Assessment				Risk Control			
No.	Workplace/ Activity	Hazard	Consequences/ Effects	Likelihood	Severity	Risk Rating	Existing Risk Control (if any)	Recommended and additional Control	PIC	Status/ Remarks	
1	Insert picture here	Establishment of new GAM Nicad and Lead Acid Battery workshop facilities at ground floor GAM HQ, dedicated battery shop areas to comply with AMO 145 requirements	Transition of establishment of new store facilities will implicate interest of the company with non-compliance with authority regulation and standards	The company can't achieve their business opportunities and its commercial values	4	E	4E	Admin. Control: Refer to SMS Manual Part 14.2 (Process of management of change MOC)	Admin. Control: Identify gaps and weaknesses thru MOC tracking to ensure the achievement	QAM	Risk reduced to 3E after existing and additional control measure and find on acceptable level
2	Insert picture here	The battery shop will be set up and intended to get the workshop approval to comply with AMO 145 requirements and organization operational procedures	Reduction of ability to perform prescribe function due to Lack of procedures and establishment of related term of reference for a save operations	Difficulty to perform task as per task assigned and implicated safety of product or item	3	D	3D	Admin. Control: Procedures as specified in battery manufacturer's manuals	Admin. Control: Setting up the safety & internal procedure for the battery shop facilities	QAM EM SM	Risk reduced to 1D after existing and additional control measure and find on acceptable level
3	Insert picture here	Requirement of charging equipment and required special tool within addition of the general hand tools which required as per battery servicing specification	The tools and equipment do not meet the standard of reg. compliance and OEM spec. & recomdt'n which lead to an unsafe working environment	Equipment that didn't meet the specifications can cause of a/c and component damage	4	C	4C	Admin. Control: Refer to MOE Part 2.4 (Acceptance of tool and equipment)	Admin. Control: To carry out surveillance of tool & equipment to meet safety requirement	QAM EM	Risk reduced to 2C after additional control measure and find on acceptable level after review
4	Insert picture here	Requirement of the security of the battery shop, door should be kept closed and be lockable due to the high value of batteries and tools and other safety concern	Reduction of ability to perform prescribe function due to lack of security and monitoring system in the facility for acquired save operations	Which lead to stored item, spares or aircraft component accidentally lost or stolen	5	D	5D	Admin. Control: Refer to EPM 2-02 4.0 (Storage Control) and appropriate signages	Eng. Control: To install CCTV system on the related areas to enhance safety and monitoring	QAM EM SM	Risk reduced to 2D after existing and additional control measure and find on acceptable level

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5	Insert picture here The facility was divided, in no circumstance should the same facility be used for both nickel-cadmium and lead-acid battery charging and servicing facilities	The possibilities of the ventilation arrangements shall be such that the cross contamination may occur with lead to unsafe working environment	Which lead to harm personnel by acute respiratory difficulties and risk of fires	3	C	3C	Admin. Control: Refer to SMS Manual Part 13.2 (Safety Audits) and MOE Part 3.1 (QA Audit)	Admin. Control: An appropriate signages to differentiate and segregation of the facilities	QAM EM SM	Risk reduced to 2C after additional control measure and find on acceptable level after review
6	Insert picture here Requirement of temperature, humidity control in the rooms as specified in the OEM publication for that battery and with a good ventilation to extracting all gases and fumes	Uncontrolled temperature and ventilation will result in several defects in component and equipment with lead to unsafe working environment	Which lead to harm personnel, component and product damage and risk of industrial fires	3	C	3C	Admin. Control: Refer to SMS Manual Part 13.2 (Safety Audits) and MOE Part 3.1 (QA Audit)	Eng. Control: To install Hygrometer and developed means of control for temp. humid monitoring	QAM EM SM	Risk reduced to 2C after additional control measure and find on acceptable level after review
7	Insert picture here Requirement of water supply at least one tap in each room where battery charging is carried out. Appropriate sinks, drainage and a hot water supply should be provided	Reduction of ability to perform prescribe function with inadequate water supply and drainage for washing down & cleaning purposes	Difficulty to perform product inspection and to maintain product cleanliness as per required	4	C	4C	Admin. Control: Refer to SMS Manual Part 13.2 (Safety Audits) and MOE Part 3.1 (QA Audit)	Admin. Control: To established procedure for the required condition and requirement	QAM EM SM	Risk reduced to 1C after existing and additional control measure and find on acceptable level
8	Insert picture here Requirement to nominate adequate personnel who's responsible for the operation with include the certifying abilities and requirement of appropriate related training	Reduction of ability to perform a prescribe function due to lack of manpower and adequate training as per required	Difficulty to perform a task as per task assigned and implicated to product safety	4	C	4C	Admin. Control: Refer to MOE Part 3.4.5 (Training and continuation training)	Admin. Control: An additional related training to enhance personal capabilities (Approval Holder)	QAM EM	Risk reduced to 2C after additional control measure and find on acceptable level after review

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9	Insert picture here	The main power supply should be adequate to satisfy all charger/analyser's operating simultaneously, plus a small percentage safety factor	The possibilities of the overcharging and overrated power supply with lead to unsafe working environment	Possibilities of product and equipment damage and implicated safety of personnel	5	D	5D	Admin. Control: Refer to SMS Manual Part 13.2 (Safety Audits) and MOE Part 3.1 (QA Audit)	Eng. Control: Building ESDS workstations and wearing ESDS wrist straps in store operation	EM	Risk reduced to 2D after existing and additional control measure and find on acceptable level
10	Insert picture here	Storage area required in order to preserve an orderly flow and segregation of charging room, storage facilities should be provided for incoming and unserviceable batteries	The process flow and segregation do not meet the standard of reg. compliance and OEM spec. & recomdt'n which lead to an unsafe working condition	Possibilities of product and equipment misplace, missing due to work area unorganized	3	C	3C	Admin. Control: Refer to SMS Manual Part 13.2 (Safety Audits) and MOE Part 3.1 (QA Audit)	Eng. Control: To install an appropriate and adequate holding bench or rack for product and item segregation	QAM EM	Risk reduced to 2C after additional control measure and find on acceptable level after review
11	Insert picture here	Requirement of utilization an appropriate (PPE) as reasonable and practical during performing the prescribed task as per operational requirement	Failure to used PPE will exposed to a variety hazards when engineering and administrative controls are not feasible or effective to reduce risks	Risk to personal from exposed to injury and risk to fatalities from working environment	5	C	5C	PPE Control: An appropriate PPE is already placed at MIAT store for utilization	PPE Control: To place a dedicated and appropriate PPE as required at battery shop	SM	Risk reduced to 1C after existing and additional control measure and find on acceptable level
12	Insert picture here	Other safety requirement to enhance the facilities safety with include requirement of emergency escape route, fire extinguisher and first aid kit	Reduction of safety condition due to Lack of safety requirement as per required for a save operations and emergency	Risk to personal, equipment and facilities in an event of emergency	3	B	3B	Admin. Control: Refer to SMS Manual Part 13.2 (Safety Audits) and MOE Part 3.1 (QA Audit)	Admin. Control: To supply the required item for the facilities as required	SM	Risk reduced to 1B after additional control measure and find on acceptable level after review