

APPENDIX D- RISK ASSESSMENT

PRODUCT RISK / HAZARD ASSESSMENT TABLE

PRODUCT NAME:	MKXD-9 Generator	Assessment Carried Out By:	Thomas Barna
MANUFACTURER:	MAKINEX	Document Revision Number:	001
OPERATOR COMPETENCY:	PLANT LICENCE NOT REQUIRED	Date Created:	05/04/2014

No:	TYPE / NATURE OF RISK or HAZARD		LIKELIHOOD	CONSEQUENCE	RISK LEVEL	CONTROL ACTION			
1.0	BURNS/FIRE	1.1 PERSONAL INJURY – BURNS WHILST DOING MAINTENANCE ON MACHINE	2	LIKELY	4	NEGLIGIBLE	4	LOW	- BE CAUTIOUS OF HOT PARTS (SUCH AS MUFFLERS). ALLOW TO COOL BEFORE MAINTENANCE/ADJUSTMENTS
		1.2 FIRE/EXPLOSION WHILST REFUELING ENGINE	3	UNLIKELY	2	MAJOR	3	MEDIUM	- SHUT OFF MACHINE AND ALLOW TO COOL BEFORE REFUELING. NEVER REFUEL WHILE MOTOR IS RUNNING. - DO NOT SMOKE AND ENSURE REFUELING IS UNDERTAKEN IN WELL VENTILATED AREA (OUTSIDE, CLEAR OF IGNITION SOURCES)
2.0	ELECTROCUTION	2.1 LOW RISK OF POSSIBLE MINOR BURNS FROM MAINS ELECTRICAL CONNECTIONS ON GENERATOR	3	UNLIKELY	1	FATALITY	2	HIGH	- ENSURE THAT NO PART OF BODY IS IN CONTACT WITH TERMINALS WHEN STARTING / USING GENERATOR
3.0	ERGONOMIC INJURY	3.1 PERSONAL INJURY WHEN LIFTING/OR MOVEMENT ON SITE	2	LIKELY	2	MAJOR	2	HIGH	- STAFF TRAINING ON CORRECT LIFTING PROCEDURE
		3.2 STARTING PORTABLE GENERATOR	3	UNLIKELY	3	MINOR	4	LOW	- MANUAL HANDLING TRAINING
4.0	NOISE	4.1 HEARING DAMAGE DUE TO LONG TERM USE	3	UNLIKELY	3	MAJOR	4	MEDIUM	- ALWAYS WEAR HEARING PROTECTION WHILST OPERATING AND/OR IN CLOSE VICINITY OF THE MACHINE

NOTES:

- > THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED AS A GENERATOR ONLY
- > THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO GUIDELINES AND RECOMMENDATIONS FOUND IN:
 1. 'HAZPAK' PRODUCED BY THE WORK-COVER AUTHORITY AND
 2. THE AUSTRALIAN STANDARDS 4024.1.4/5 - 1996
- "SAFEGUARDING OF MACHINERY - PART 1: GENERAL PRINCIPLES AUSTRALIAN STANDARD, AS/NZS 3760 IN-SERVICE SAFETY INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT.

"LIKELIHOOD LEVEL" REFERS TO THE PROBABILITY OF AN EVENT HAPPENING. THE FOLLOWING SCALE HAS BEEN USED TO DESCRIBE THE LIKELIHOOD OF A DEFINED RISK / HAZARD EVENT OCCURRING DURING NORMAL OPERATION OF THE EQUIPMENT. NOTE THAT LIKELIHOOD EVALUATION IS QUALITATIVE AND BASED ON BEST ESTIMATION VIA CONSULTATION AND EXPERIENCE:

1. **VERY LIKELY**
2. **LIKELY**
3. **UNLIKELY**
4. **VERY UNLIKELY**

"CONSEQUENCE" REFERS TO THE SEVERITY OF INJURY CAUSED DUE TO AN EVENT OCCURRING, USING THE FOLLOWING SCALE AS DEFINED BY THE "HAZPAK" DOCUMENT:

1. **FATALITY** = INJURIES RESULT IN DEATH
2. **MAJOR** = NORMALLY IRREVERSIBLE INJURIES
3. **MINOR** = REVERSIBLE INJURIES REQUIRING SEVERAL DAYS OFF
4. **NEGLIGIBLE** = ABLE TO BE TREATED USING FIRST AID

"RISK LEVEL" REFERS TO THE SEVERITY OF A RISK BASED ON THE "LIKELIHOOD LEVEL" AND "INJURY LEVEL". INHERENTLY, AS THE CONSEQUENCE INCREASES IN SEVERITY, RISK INCREASES - EVEN WHEN LIKELIHOOD IS LOW - THE FOLLOWING SCALE HAS BEEN USED:

1. **HIGH** = POTENTIAL DEATH, PERMANENT DISABILITY, OR MAJOR STRUCTURAL DAMAGE.
2. **MEDIUM** = POTENTIAL TEMPORARY, DISABILITY, OR MINOR STRUCTURAL DAMAGE.
3. **LOW** = POTENTIAL INCIDENT THAT HAS THE POTENTIAL TO CAUSE PERSONS TO REQUIRE FIRST AID.