MODEL AERONAUTICAL ASSOCIATION OF AUSTRALIA



RISK ASSESSMENT PROCEDURE

MOP022

APPROVED: MAAA PRESIDENT

Date: 27/10/2017

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Amendments made to MOP022

Paragraph	Brief description of change	Change incorporated by
4.4	Addition to Policy. A Risk Assessment is required when making application to CASA.	MAAA Secretary July 2014
6 (b) 7.0	Addition to Policy. A Risk Assessment must assess the risk of conflict between the model aircraft and an unmanned aircraft.	

This Policy and/or Procedure forms part of the MAAA Manual of Procedures. This entire document is for the use of all classes of members of the MAAA in the conduct of activities associated with the MAAA and is not be used for any other purpose, in whole or in part, without the written approval of the MAAA Executive.

RISK ASSESSMENT PROCEDURE

1. INTRODUCTION

Many people who do not have practical experience of Risk Management fear that employing it will result in so many rules that, whatever the activity, it will not be able to continue in the same general way as it has up to that time. Normally, provided that there are no serious problems with the way that the activity is organised, that will not be the case. Of course there may be some changes needed, but in most cases these are easy to do and do not have a major impact. Having made the changes, the activity should be much safer.

The MAAA, like most organisations, had risk management without necessarily giving it a formal title, since it first started. Much of the contents of the Manual of Procedures (MOP) are risk management, as are some of the other rules/guidelines/recommendations. Where these are firm requirements they have to be complied with. If these are not appropriate for a particular situation then it should be identified and steps taken to get either the rule or the wording modified. Not following the requirement because it is inconvenient is not acceptable.

The MAAA also provides guidance for many situations, either in the MOPs or elsewhere. These are only guidance because it might not make sense to apply them universally without some adaptation to suit local conditions. The application has to be considered locally and a decision made on what to do. The intent of the guidance should always be considered when looking at how to do things locally and then arrive at something that makes sense. A non modelling example is crossing the road. It makes sense to look out for oncoming traffic. If a rule just said look in both directions before starting to cross this it would make sense if it is a quiet road with good visibility in each direction, low background noise and no vehicles around. Look once and cross. But suppose it was a busy multi lane highway with fast moving traffic and on a bend. If you are crossing there, you would probably be looking right and left all the time as you continually assess the risks that you were confronted with. In fact in this case you would hopefully decide not to cross there and find somewhere safer. That is the preferred risk management approach. If there is a significant risk the best option is to avoid the risk altogether by adopting a safer practice.

Even if all persons involved with the MAAA follow all the rules and guidance that there are for model aircraft, CASR 1998 Part 101, MAAA Rules and Club Rules, there are likely still be some risks around at every location that could be quite high. Often these is known, sometimes subconsciously, but they are either ignored as being too hard, the subjective view is taken that it will never happen, or that even if it does the worst case is unlikely to be the outcome.

The intention of this policy and procedure is to assist clubs to assess their own risks and guide them on how to manage them.

2. ACKNOWLEDGEMENT

2.1 The assistance of the British Model Flying Association (BMFA) in the preparation of this document is appreciated.

3. DEFINITIONS

Affiliate Member A person properly affiliated with a Club that is properly affiliated to an MAAA Ordinary Member.
CASA Civil Aviation Safety Authority
CASR 1998 Part 101 Civil Aviation Safety Regulation 1998 Part 101
Club A Club properly affiliated with an MAAA Ordinary Member.
Club Member See Affiliate Member.
MAAA Model Aeronautical Association of Australia Inc.
MAAA Ordinary Member A State Association properly affiliated with MAAA Inc.
MOPMAAA Manual of Procedures
Ordinary Member See MAAA Ordinary Member.

4. POLICY

- 4.1 The MAAA advises Cubs to carry out their own Risk Management Assessment based on the Procedure documented in this MOP. This should be repeated at intervals determined as appropriate by the club. This should occur if there is a significant change in the method of operation and on a routine basis depending on factors such as the result of previous assessments, occurrence of a potential hazardous situation, level of activity, evolving operational practice or a request from Club Members. In the absence of any special factors once every 12 months might be considered appropriate. Where clubs carry out a Risk Assessment on their own initiative the results and actions are a not required to be forwarded to either the relevant MAAA Ordinary Member or the MAAA unless specifically requested by either body.
- 4.2 An MAAA Ordinary Member may require a club registered with it to complete a Risk Assessment. This may be due to becoming aware of a potential situation where risk management is required or on a routine or sample basis. Such a request shall provide the timescale for the completion of the assessment and a copy of the completed documentation and the recommendations shall be provided to the MAAA Ordinary Member by the due date. After reviewing the documentation the MAAA Ordinary Member may require additional actions.
- 4.3 The MAAA may, through the MAAA Ordinary Member or directly, require a club to complete a Risk Assessment. This may be due to receiving an incident report or for any other reason. Such a request shall provide the timescale for the completion of the assessment and a copy of the completed documentation and the recommendations shall be provided to both the MAAA and the relevant MAAA Ordinary by the due date. After reviewing the documentation either the MAAA or the MAAA Ordinary Member may require additional actions.
- 4.4 When a Club or State Association makes an application to the Civil Aviation Safety Authority (CASA) for an exemption to the requirements of CASR Part 101 or for an Instrument of approval for certain Displays, the Risk Assessment documentation, Form MAAA031 and Form MAAA032, must be included with that application.

5. BASIC PROCEDURE

- 5.1 This is based on the Australian Risk Management Standard which is similar to that used in most countries. Risk assessments will take into account many hazards and the potential for any such accident to cause injury or significant costs. Any such assessment will take account of the following:
 - 1. Identification of ALL the risks.
 - 2. Evaluation of those risks.
 - 3. Implementation of measures to control the risks.
- 5.2 Such a risk assessment should be:

Suitable and sufficient – not perfect - and identify all the significant risks arising from an activity.

Reviewed and revised if there is a significant change in the matters to which it relates.

The intention is to identify what risks there are, how serious the result would be and how likely they are to happen. After this, a simple arithmetic calculation shows the risks that need to be looked at. This is based on a simple qualitative and semiquantitative method which is often used and makes use of the equation shown below. Multiplication of HAZARD x LIKELIHOOD generates a "RISK FACTOR"

SEVERITY OF RISK LIKELIHOOD OF Х HAZARD FACTOR OCCURRENCE

However there needs to be a commonsense approach to the results but this does not mean that serious risks should be ignored just because the solution is hard or inconvenient.

Having identified the risks that are sufficiently serious to be looked at then there are a number of ways of tackling them. The preferred order for doing this is

- 1. Elimination.
- 2. Substitution.
- 3. Enclosure.
- 4. Guarding / segregation of people.
- 5. Safe systems of operation that reduce the risk to an acceptable level.
- 6. Written procedures that are known and understood by all affected.
- 7. Adequate supervision.
- 8. Identification of training needs.
- 9. Information and instruction including necessary signs etc.
- 10. Personal protective equipment.

In many cases a suitable combination of these control measures may be necessary. Individual levels of competence of those involved will also need to be considered.

6. EVALUATION OF RISK

The evaluation of risk is the process known as "Risk Assessment."

A "competent person" should perform this assessment. For our purposes this could be:

An experienced model flyer within the club, who may or may not be on the committee, and who can demonstrate a thorough knowledge of model flying operations by experience and possibly with MAAA status as an Instructor or Inspector.

Where clubs, perhaps newly formed, have no access to such a person, in this case it should be the most experienced club member(s) in conjunction with external assistance if required.

Because the assessment has a subjective element and it is unlikely to be carried out by a risk management professional it makes sense if two or three people do the assessment on a consensus basis. It is not suggested that more then this are involved or it becomes a committee and might not reach a workable outcome.

Risk assessment for model-flying clubs must take into account all relevant information including:

a) All current legislation (with best practice adopted and no contraventions)

Civil Aviation Safety Authority	e.g regulations, height, airspace, airfield proximity etc.
MAAA MOPs	e.g frequencies, insurance requirements,
	weight restrictions, code of practice etc
Local by-laws and restrictions	e.g shared use of sites noise etc.
Agreement with the land owner.	e.g no conflict with safety requirements.

b) Identification of all known hazards, including risk of conflict with manned aircraft

In the Appendices there are templates that should be completed by each club in accordance with the policy. If any hazards are identified that need to be addressed then the form should also be completed after changes have been made with a revised score. The final outcome is called the residual or treated risk.

The templates have some initial standard questions. The remaining ones should be completed by the using experience of hazards in model flying. These should be guided by but not limited to the topics on the following list but it should be realised that in a particular situation some items may not be appropriate.

7. POSSIBLE HAZARDS SPECIFIC TO MODEL CLUBS

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		Control the operation of "large" models.
Are items of basic safety equipment Scanning Radio Frequency receivers.	• • •	
needed to be available to the club members?Crystal frequency checkers for transmitters. High visibility tape to restrict public access. Windsock, wind velocity meter etc.		High visibility tape to restrict public access.
Loudhailer or public address warning system.	Loudhailer or public address warnir	ng system.
Are systems in place to cascade Newsletters		
safety information to members? Teaching sessions Electronic Email Promotion of MAAA wings schemes	salety mormation to members?	Electronic Email

Promotion of MAAA wings schemes

This list is neither exhaustive nor prescriptive in nature; however, it is a good starting point and emphasises the scope of any risk assessment process for a model-flying club. Many of these examples will already be covered - but are they documented? Can it be made safer? Should advice be sought from an external source e.g. State Association, MAAA etc.

MOP022

As a responsible club it may well be the case that a safer system of operation could be devised on your site. The headings should promote discussion within your club. This may lead to a significant reduction of risk through adoption of best practice.

9. RISK ASSESSMENT EVALUATION SCORES

For each identified risk a risk factor is calculated using the assessed severity and likely frequency of occurrence. The following "scores"/"values" are for use in the "Risk Assessment Before & After Control Measures" evaluation process which will use Form MAAA031, see Appendix "B".

Potential severity (A	Score	Frequency (B)	Score	Risk Factor A X B
Trivial	=1	Highly unlikely occurrence	=1	0-5 low
Minor injury/cost	=2	Possible occurrence	=2	
Serious injury/ Moderate cost	=3	Quite possible occurrence	=3	6 – 15 medium
Fatality/high cost	=4	Likely occurrence	=4	
Major-multiple deaths/	=5	High occurrence	=5	16–25 high

10. RISK FACTOR SCORES AND REMEDIAL ACTIONS

Once the assessment has identified the risk factors associated with each identified risk then the following gives an indication of how guickly the action plan to eliminate/reduce the risk should be completed. The risk is then reassessed and the Residual risk also added to the template to show the improvement achieved.

Score (A x B)=	0 – 5 NO A	ACTION REQUIRED
Score (A x B) =	6 – 15	MODERATE RISK – PLANNED ACTION REQUIRED within a reasonable time scale, say 28 days
Score (A x B) =	16 – 25	HIGH RISK – IMMEDIATE ACTION REQUIRED This must be dealt with urgently – flying should probably cease until problem(s) rectified.

11. PROCESS

The templates shown in Appendix A and B should be completed. The actual forms are available on the MAAA web site as MAAA031 and MAAA032. Every identified hazard should be listed using as many sheets as needed

Place the score for the SEVERITY and FREQUENCY in the appropriate boxes.

Calculate the "RISK FACTOR" by multiplication of the 2 scores.

The club should then review Section 10 to assist in deciding where actions need to be taken and if needed reduce any of the "risk factors" by introducing or changing existing control measures.

Add any changed control measures and supporting comments as required – particularly where a control measure has been introduced and the risk factor has been reduced.

After introducing new control measures the Severity and the Frequency of the risk needs to be reassess and placed in the residual section of the box for that risk. The Risk Factor is then recalculated and reassessed to see if it has achieved the required reduction. If not then further control measures need to be considered and the process repeated.

12. EXAMPLE OF ASSESSMENT

A sample Risk Assessment is set out in Appendix C.

This example is for a fictitious club which is included to guide clubs on what is needed although in practice it is expected that more individual risks would be identified. It should be noted that some risks that score at the low end of the Moderate Risk Factor have been treated to lower the risk but for some it was assessed that no further action could be taken above what the club was already doing. However additional actions would always be expected for risk factors at the higher end of the Moderate Risk or for any in the High Risk category. Also in one case a control measure was introduced which did not actually change the Risk Factor but would still be worth doing. In another case a single possible event had two possible consequences which had a different risk factor, one of which needed to be treated.

13. APPENDICES

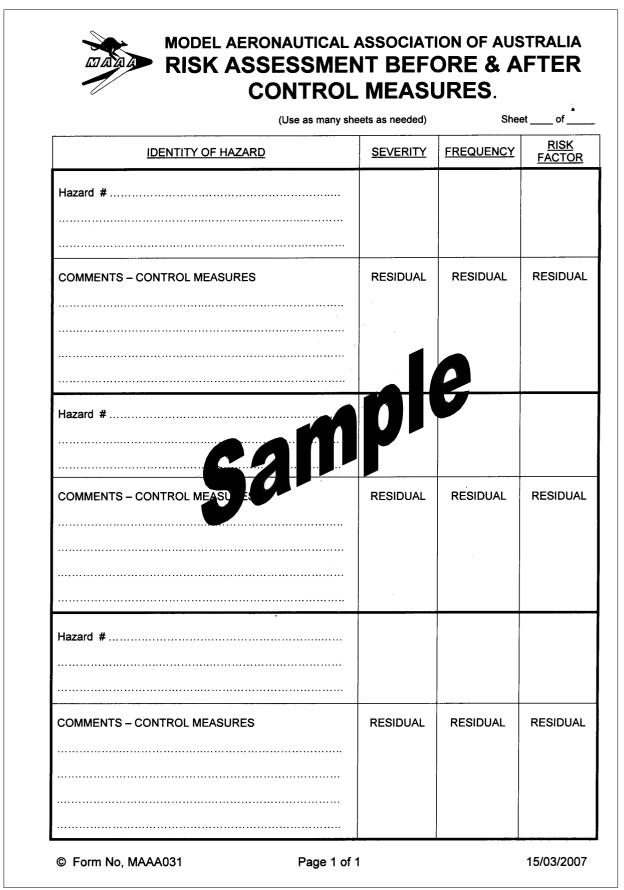
Appendix A - Risk Assessment Template for use by Model Flying Clubs

Appendix B - Risk Assessment Before and After Control Measures

Appendix C - Sample Risk Assessment.

For Use by Model Flying Clubs. SECTION 1. CLUB DETAILS Name of model club; Location of flying site; Site owners name; Site owners name; Site owners name; Site owners name; State Association; Date of assessment; Assessor's name Position in club; Signature Assessor's name 2; Position in club Signature REVIEW OF ASSESSMENT DUE ON Image: transfer of the site specified above. SECTION 2. Section club familiar with and does it comply with Part 101. Is the club familiar with and does it comply with Part 101. Image: transfer of the site specified above. SECTION 3. YES NO Is the club familiar with and comply with MAAA Policy as defined in the MOP's? Image: transfer of the site and the site commendations as defined in the MOP's and has it made documented decisions on how to apply relevant recommendations SECTION 4. THIRD PARTY RISK IDENTIFICATION Please specify individuals, organizations, vehicles, buildings and anything else other than Club Members and bona fide visitors that could be placed at risk by the Club operations.		NODEL AERONAUTICAL ASSOCIATION OF	
Name of model club; Location of flying site; Site owners name; State Association; Date of assessment; Assessor's name 1; Position in club; Assessor's name 2; Position in club Risk assessment checked and authorised by club committee or REVIEW OF ASSESSMENT DUE ON Unless circumstances relating to operation change ar to be provide the site suggester SECTION 2. The operation of radies of red model aircraft at the site specified above. SECTION 3. YES No Is the club familiar with and does it comply with Part 101. Is the club familiar with and comply with relevant Federal State and Local Government requirements? Is the club familiar with MAAA Recommendations as defined in the MOP's and has it made documented decisions on how to apply relevant recommendations SECTION 4. THIRD PARTY RISK IDENTIFICATION Please specify individuals, organizations, vehicles, buildings and anything else other than Club Members and bona fide visitors that could be placed at risk by the Club operations. Specify here Specify here			
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Assessor's name 1 ;	Site owners name;		
Position in club; Signature Assessor's name 2; Position in club Signature Risk assessment checked and authorised by club committee or /// REVIEW OF ASSESSMENT DUE ON	State Association;	Date of assessment,	
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Risk assessment checked and authorised by club committee committe	Assessor's name	2;	
REVIEW OF ASSESSMENT DUE ON 1	Position in club	Signature	
YES NO Is the club familiar with and comply with MAAA Policy as defined in the MOP's? Is the club familiar with and comply with relevant Federal State and Is the club familiar with and comply with relevant Federal State and Is the club familiar with MAAA Recommendations as defined in the MOP's Is the club familiar with MAAA Recommendations as defined in the MOP's Is the club familiar with MAAA Recommendations as defined in the MOP's Is the club familiar with MAAA Recommendations on how to apply relevant recommendations Is the club familiar with MAAA Recommendations as defined in the MOP's Is the club familiar with MAAA Recommendations on how to apply relevant recommendations Is the club familiar with MAAA Recommendations as defined in the MOP's Is the club familiar with MAAA Recommendations on how to apply relevant recommendations Is the club familiar with MAAA Recommendations SECTION 4. THIRD PARTY RISK IDENTIFICATION Please specify individuals, organizations, vehicles, buildings and anything else other than Club Members and bona fide visitors that could be placed at risk by the Club operations. Specify here Specify here	SECTION 2 . The operation of r		ified above.
Is the club familiar with and does it comply with Part 101.	SECTION 3.		
Is the club familiar with and comply with MAAA Policy as defined in the MOP's?	le the club femilier with	and doos it comply with Part 101	YES NO
Is the club familiar with and comply with relevant Federal State and Local Government requirements? Is the club familiar with MAAA Recommendations as defined in the MOP's and has it made documented decisions on how to apply relevant recommendations SECTION 4. THIRD PARTY RISK IDENTIFICATION Please specify individuals, organizations, vehicles, buildings and anything else other than Club Members and bona fide visitors that could be placed at risk by the Club operations. Specify here			
and has it made documented decisions on how to apply relevant recommendations SECTION 4. THIRD PARTY RISK IDENTIFICATION Please specify individuals, organizations, vehicles, buildings and anything else other than Club Members and bona fide visitors that could be placed at risk by the Club operations. Specify here	Is the club familiar with	and comply with relevant Federal State and	
Please specify individuals, organizations, vehicles, buildings and anything else other than Club Members and bona fide visitors that could be placed at risk by the Club operations. Specify here			ons
© Form No. MAAA032 Page 1 of 1 15/03/200	Please specify individ Members and bona fi	luals, organizations, vehicles, buildings and anything else de visitors that could be placed at risk by the Club operation	ons.
	© Form No, MAAA0	32 Page 1 of 1	15/03/2007

Appendix A Form MAAA030 - Risk Assessment Template for use by Model Flying Clubs Do not use photocopies of this form. The Original is available on the MAAA web site.



Appendix B

Form MAAA031 - Risk Assessment Before and After Control Measures Do not use photocopies of this form. The Original is available on the MAAA web site.

MODEL AERONAUTICAL ASSOCIATION OF AUSTRALIA RISK ASSESSMENT TEMPLATE For Use by Model Flying Clubs.
SECTION 1. CLUB DETAILS
Name of model club; All Enthusiasts Model Flying Club
Location of flying site; Sports Ground Whup Whup East Australia
Site owners name; Whup Whup City Council
State Association; East Australian Sports Aviation Date of assessment; 1/01/3000 Assessor's name 1; James Bloggs
Position in club; President Signature; J. Bloggs
Assessor's name 2; John Smith
Position in club CFI Signature <i>J. Smith</i>
Risk assessment checked and authorised by club committee on 4/01/3000
Review Of Assessment Due On 1/01/3001
Unless circumstances relating to operation change a period not exceeding 12 months is suggested.
SUBJECT ASSESSED
The operation of radio controlled model aircraft at the site specified above.
SECTION 3.
Is the club familiar with and does it comply with Part 101.
Is the club familiar with and comply with MAAA Policy as defined in the MOP's?
Is the club familiar with and comply with relevant Federal State and X
Is the club familiar with MAAA Recommendations as defined in the MOP's X and has it made documented decisions on how to apply relevant recommendations
SECTION 4. THIRD PARTY RISK IDENTIFICATION Please specify individuals, organizations, vehicles, buildings and anything else other than Club Members and bona fide visitors that could be placed at risk by the Club operations. Specify here
© Form No, MAAA032 Page 1 of 1 15/03/2007

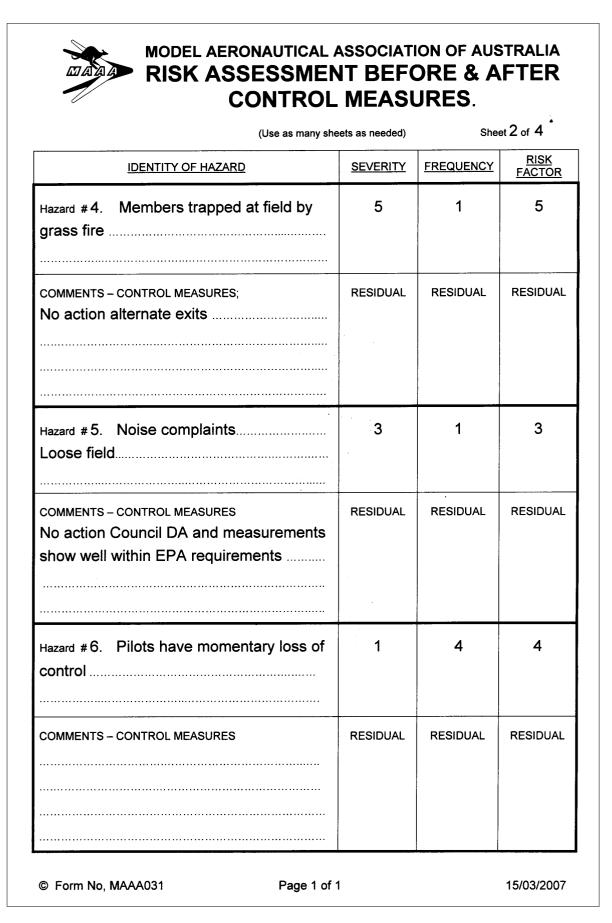
Appendix "C" - Page 1



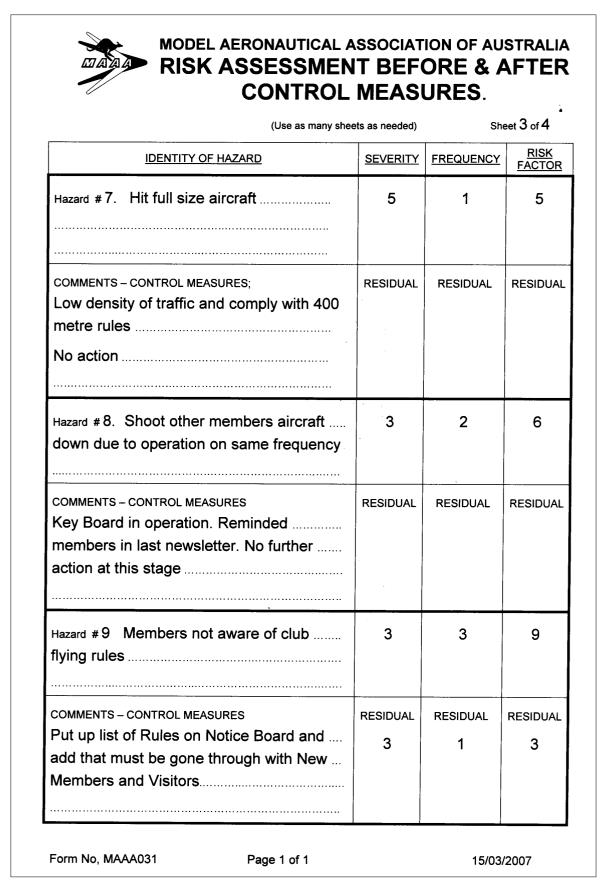
MODEL AERONAUTICAL ASSOCIATION OF AUSTRALIA **RISK ASSESSMENT BEFORE & AFTER CONTROL MEASURES.**

(Use as many she	Sheet 1 of 4		
IDENTITY OF HAZARD	<u>SEVERITY</u>	FREQUENCY	<u>RISK</u> <u>FACTOR</u>
Hazard #1 Hit members of football club and Supporters during practice or matches	3	1	3
COMMENTS – CONTROL MEASURES; No further action. Club Rule we don't fly when they are there	RESIDUAL	RESIDUAL	RESIDUAL
Hazard #2. Model crashing in pits area and hitting a person	3	2	6
COMMENTS – CONTROL MEASURES	RESIDUAL	RESIDUAL	RESIDUAL
Currently comply with 30 metre rule. Make note in magazine to make sure that members know to call out warning if they see potential problem happening	3	2	6
Hazard #3 Fingers in props	3	3	9
COMMENTS – CONTROL MEASURES Require members to positively restrain aircraft either by someone else holding or mechanical stops	RESIDUAL 3	RESIDUAL 2	RESIDUAL 6
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MODEL AERONAUTICAL ASSOCIATION OF AUSTRALIA RISK ASSESSMENT BEFORE & AFTER CONTROL MEASURES.

(Use as many shee	ets as needed)	She	eet 4 of 4
IDENTITY OF HAZARD	SEVERITY	FREQUENCY	<u>RISK</u> FACTOR
Hazard # 10. Occasional slippery mud in front of transmitter pound and sharp edges on keyboard causing fall/cuts	3	3	9
COMMENTS – CONTROL MEASURES; Move transmitter pound to flat area and pave locally in front of keyboard and remove all sharp edges from it	RESIDUAL 1	residual 1	RESIDUAL 1
Hazard #11. Hitting power lines - Damage to aircraft	2	2	4
COMMENTS – CONTROL MEASURES Club rules prohibit flying within 100 metres of lines	RESIDUAL	RESIDUAL	RESIDUAL
Hazard # 12. Hitting power lines – Local power failure.	3	2	6
COMMENTS – CONTROL MEASURES Club rules prohibit flying within 100 metres of lines. Flight paths to be occasionally audited to educated members to keep the required clearance to power lines.	RESIDUAL 3	RESIDUAL 1	RESIDUAL 3

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