# **Agenda Item Summary**

from the Office of the WBSF Vice President

Items to be brought before the WBSF Delegates in 2013

Much time and effort has been applied to this to help make our meeting go smoothly.

This collection of documents will help speed up the meeting process. Also this effort will help in the records of the minutes. Each item contains a written motion, this will also aid in the record keeping process and better help track changes.

## Agenda Item

## Summary

## WBSF Rule Book Agenda Items

- 1 Remove requirement to measure in mm when shooting meters, inches when shooting yards.
- 2 Add Super Shoot format to E.4, Order of Competition
- 3 Grand Agg & 2-Gun tie breaker from average to add up (will make calculation easier)
- 4 Remove D.4 from rule book, there is nothing there.
- Add the word "After" to C.14 line A (no ammunition in rifle until "after" the commence fire.....)
- 6 Remove Line 4 of C.14 in Standard range commands 4) Place bolts in your rifle Renumber balance
- 7 Reorganize E.13, E.14 & E.16 to better match drawing in Appendix B, make easier to understand.
- 8 Remove and replace Appendix B with PDF of same wording and good target views
- 9 Add Appendix B.1 Better drawing and all words in same place, make easier for shooter to understand issue.
- Remove last sentence of A.9. There is no need to dictate last day "fun day" distances or formats.
- 11 Add Test Competitor to Stat sheet for shoots, This will test calculations during shoots.
- 12 Split records as was decided on in 2005, This is follow through on old decision.
- 13 Small groups Standardize you can shoot small group in warm-up, records to reflect.
- 14 Change C.9.e wording to reflect records in MOA
- 15 MOA Since records split, true MOA not comparative error to yards, records to reflect.
- MOA pdf to Appendix G for help to Host countrys.
- 17 Cleanup conflict between C.3 and D6, change to dislodged target section C.3
- 18 Remove last sentence of A.7. It was never voted on to use this language.
- Remove E.15 this item is addressed twice. Section I.4 "Bolts in Rifles:". E.15 was just left in after change.
- 20 Authorize facelift, reorganization and renumber and cleanup of rule book. To PDF format.....
- 21 I will Clean up appendix in Rule book to reflect any changes after the fact. No rule changes fixing this.

## Remove c.9a completely (simplify rule book)

**C.9a** Groups shot at imperial distances will be measured using the imperial system to the nearest 0.001 inch. Groups shot at metric distances will be measured using the metric system to the nearest 0.01mm.

This will allow range to decide how to measure. Competitors generally do not care if the targets are measured in inches or millimeters. If I was asked to score I would use my tool which measures in inches. George Kelbly Jr. would do the same. Many experienced scorers have their own tool which they are familiar with and that work well.

The measurement is not important except as indicated in E.10 "Group Measurement" which describes the resolution of the measuring tools .001" and .01mm, calculations and non-rounding of results are important.

Pamova caction CQ a completely from rulehook

Motion. Reini	ove section G.	a completely	/ II OIII I u	CDOOK.	
	Second		Carrie	d Yes	_ No
	XXXXXXXX	XXXXXXXXX	XXXXX	XXXXXXX	······································
Agenda Item # 2					
	Add Supe	er Shoot forn	nat to E.4	Order of Co	mpetition
this is probably the	most common t hosts who ha	n course of fin ve had a less	e and I were	ould like it a t of experier	a minimum. We do this for fun, dded as the first example. This is ace running and thinking about and shooters.
Day2 Day3	LV100 HV100 HV200 LV200				
Motion: add forma  E.4 Order of Competitie  It is for the					ead as follows;
Example: Day 1 LV100 Day 2 HV100 Day 3 HV200 Day 4 LV200 Day 5 HV300yards, HV The proposed method i	Day1 Day2 Day3 Day4 '300meters, HV10-	100yds LV 100yds HV 200yds LV 200yds HV shot 200yards, HV	Day 1 Day 2 Day 3 Day 4 /10-shot 200	100yds LV 200yds LV 100yds HV 200yds HV	Day 1 100yds LV Day 2 200yds LV Day 3 200yds HV Day 4 100 yds HV
	Second		Carrie	d Yes	_ No

## Cleanup language of C10c for Grand Agg tie breaker.

This cleanup will not change any outcome from a tie, it only helps the Host country with the math in the tie situation. Simply add the targets, smallest total wins. Grand aggs total 2 small groups, 2 –gun totals 4 small groups.

C10c (	Grand	Aggr	egate	Score	Tie:
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In the event of a Grand Aggregate (event or 2-gun) tie, then the smallest group from each aggregate will be averaged and the smallest result will prevail.

Motion: Cha	nge C10c to read;				
C10c Grand Ag	gregate Score Tie: In the event of a Grand Aggrega together and the smallest result 2-Gun tie.				
	Second	Carried	Yes	No	
—XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXX	XXXXXXXX	XXXXXXXXX .
Agenda Item	ı #4				
	Remove D.4 from	m rule book, no vali	d cross re	eference.	
There is noth	hing in this section except	t a cross reference. D	)elete sec	tion.	
Motion; Ren	nove all of D.4				
<b>D.4</b> Metric Alt	ternative: ection A.9				
	Second	Carried	Yes	No	

## Add missing Word "After" in C.14 sentence a)

This is already addressed in sentence d) "Any shots fired before the command "Commence Fire"...." This might cause a delay until 2015 to implement.

C.14 Standard	Ranae C	ommands – Each Match:		
To ensu	ire the ch	ampionship is conducted without con		commands are to be used.
1) 2)		This is RelayMatch Are all shooters ready		
3)		You haveminutes to co	omplete this match.	
4)		Place bolts in your rifle	1	
5)		Commence Fire		
6)		Half Time	1	
7)		You have two minutes to com		
8) 9)		You have 30 seconds to comp		
-	) 0)	five seconds	nete your ming.	
	1)	"Sound of whistle" - Cease Fi	re	
12	2)	Remove bolts from rifles.		
<ul><li>Timing comm</li><li>Timing ceases</li><li>Any shots fire</li></ul>	unition mences at sat the enced before	ay be placed in the rifle until the Com the beginning of the word "commence ad of the blowing of the whistle. the command "Commence Fire" or aftend not taking part in the rest of the da	e". er the "Blowing of the whist	n. e" for cease fire, will result in the shoote
Motion;	Chan	ge wording in C.14 Interpret	ations line a) As fol	lows;
<b>Interpretati</b> a) No live an		on may be placed in the rifle ur	ntil <mark>AFTER</mark> the Commen	ce Fire command is given.
		Second	_ Carried Yes	. No
XXXXXX	XXXX	<del>********</del>	<del>XXXXXXXXXXXX</del>	<del>xxxxxxxxxxxx</del> .
Agenda Item	ı #6			
Motion;	Rem	ove line 4 in C.14 (Place bolts	s in your rifle) and rea	number accordingly
·iotion,	Itelli	ove fille 1 ill 6.11 (1 lace bote	oni your rine; and rei	idiniber accordingly.
C.14 Standard R	ange Com	mands – Each Match:		
To ensur		npionship is conducted without confusion,	the following range commands $% \left\{ 1,2,,n\right\}$	are to be used.
		nis is RelayMatch re all shooters ready		
		ou haveminutes to complete this ma	ntch.	
		ace bolts in your rifle		
		ommence Fire alf Time		
		ou have two minutes to complete your firi	ıg.	
	8. Y	ou have one minute to complete your firing	5	
		ou have 30 seconds to complete your firing	ζ.	
		ve seconds ound of whistle" - Cease Fire		
		emove bolts from rifles.		
		_		
		Second	_ Carried Yes	No

## 5. Reorganize E.13, E.14, and all of E.16 to help clarify record target, penalties and crossfires.

This section of the rule book is poorly organized and addresses; Required number of shots, Shot Placement (record target) and crossfires.

#### E.13 Required number of shots:

Any Target having less than the required number of shots, or having any shot (other than the first sighting shot) outside of (and not touching) the border line on the record target, will be penalized one minute of Arc for each shot missing or outside the border line. Penalty provisions – see Target Drawing in Appendix B (statement below target)

#### E.14 Shot Placement:

A shot above the top line of the sighter target (extended to the edges), will be a record shot unless this is the first sighting shot, and has been notified to the Range Officer.

#### Removal of Bolts:

All rifle bolts must be kept out of all rifles, except on the command of the Range Officer. This provision includes behind the firing line and in all other range areas including Loading Facilities, Parking areas etc. Breach of this rule could lead to disqualification from the championship at the discretion of the Championship Director

### Cross fire procedures:

It is the responsibility of the shooter who cross-fires to immediately advise the Range Officer of such event, and then fire the balance of their shots on their own target. A shooter who cross-fires and only the required number of shots are counted on their own record target plus the cross-fired shot/s, and does not notify the range officer, will have been deemed to have inadvertently cross-fired and shall not be disqualified, but shall be penalised as per E.16.2.

#### E.16.1

Cross-fire transferred:
The cross-firing shall be transferred to the shooters target and shall be measured as if fired in that position, on that target.

## E.16.2

Cross-fire Penalty:

To the measurement shall be added a penalty of one minute of arc for each shot fired on the wrong target

#### E16.3 Innocent Party:

The competitor, on whose target a cross fire has been placed, is obliged to advise the Range Officer of such a happening.

Failure to Notify:

Any shooter found to have cross-fired, and not notified the Range Officer, and whose target show more than the required number of shots, including cross-fires, shall be deemed to have tried to conceal the fact and shall be disqualified from the event.

E16.5 No additional time:

No additional time will be awarded to a shooter who cross-fires

#### E16.6 Targets to remain in place:

In the event of a cross fire being advised to the Range Officer, or located by the target crew, all targets, stationary and moving backers are to remain in place. It will be for the Protest Committee to resolve the matter before any further activity commences.

This will help be in a more logical order from record target defined, then record shots, then cross fires.

## Motion; Reorganize E.13, E.14, e.15 and E.16 as follows:

## E.13

All rifle bolts must be kept out of all rifles, except on the command of the Range Officer. This provision includes behind the firing line and in all other range areas including Loading Facilities, Parking areas etc. Breach of this rule could lead to disqualification from the championship at the discretion of the Championship Director.

#### E.14 **Record Target:**

The Record portion of the target is everything above and not touching the top line of the sighter target. The record target extends outside of the target card. The record portion of the target is everything above a line between the targets and above the top line of the sighter as shown on the drawing in the appendix.

#### E.15 Required number of shots:

Any target having less than the required number of shots, or having any shot (other than the first shot) outside of (and not touching) the border line on the record target and above the height of the top line of the sighter target, will be penalized 1 minute of angle for each shot missing or for each shot outside the border line. (reference drawing in appendix) A shot above the top line of the sighter target will be a record shot unless it is the first shot, the competitor must report it to the Rangemaster before firing continues (or firing a second shot).

## E.16 Cross-fires:

(c) Crossfires. Any competitor who is aware that he/she crossfired shall report it to the Range Officer immediately following the completion of that match, and shall fire the balance of his/her shots on his/her own target. If such a report is not made, and the competitor has not fired more than the required number of shots on record targets (total is crossfires plus shots on own target), and the crossfire can be identified and attributed to him/her by means of the stationary backer target, he/she shall be deemed to have crossfired inadvertently and shall not be disqualified but in either event the shooter shall be penalized as follows:

#### E.16.1 Cross-fire transferred:

The crossfire shall be transferred to his/her target and shall be measured as if fired in that position on that target.

#### E.16.2 Cross-fire Penalty:

To his/her measurement shall be added a penalty of 1 minute of arc for each shot fired. (1 inch at 100 yards; 2 inches at 200 yards; inches at 300 yards.)

## E16.3 Innocent Party:

The competitor, on whose target a cross fire has been placed, is obliged to advise the Range Officer of such a happening.

#### E16.4 Failure to Notify:

Any competitor found to have crossfired, and whose target shows him/her to have fired more than the required number of shots (including crossfires) shall be deemed to have tried to conceal the fact of his/her crossfire and shall be disqualified.

## E16.5 No additional time:

No competitor shall be allowed to refire any match. No additional time will be awarded to a shooter who cross-fires.

## E16.6 Targets to remain in place:

In the event of a cross fire being advised to the Range Officer, or located by the target crew, all targets, stationary and moving backers are to remain in place. It will be for the days Referee's to resolve the matter before any further activity commences.

Second	Carried	Yes	No _	
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<del>\*</del>

## Replace Appendix B with New Appendix B

This will clean up the description of the Targets and tie all of the info together in the rule book.

Motion: Delete all of the 100 yard and 200y targets and words to describe them in appendix B. Replace with PDF copy Appendix B of new targets with same language that is Currently in the rule book.

# Appendix B The official 100 yard/meter target (WBSF100) for all registered benchrest rifle competition shall have a ten ring of one half inch outside diameter. The nine ring shall be one-inch diameter. Succeeding rings shall increase one-half inch in outside diameter to and including the six ring. The aiming yaquare shall be one inch square and placed tangent the eight ring at the twelve o clock position. Thickness of the sides of the aiming square will be one quarter inch. The target shall have a black border line forming a rectangle 3.5 x 4.75 inches with no printing except the target inside the border line. A sighter target of the same basic design shall be on the same target card directly below the record target. The entire target card will measure approximately 8x16 inches. The sighter target is to have an 3 appear in both of the upper corners of the box. The target is to also have an additional 10 and 97 ring 1s to be tangent with the 8 ring. The distance between the record target bottom border and the top border of the sighter target should be approximately 31/2 inches. All of the printing of the target shall be done in black. Targets for the longer ranges shall be increased in direct proportion to the range in all ring and, aiming square dimensions, except in ring thickness and distance between sighter and record targets. Overall size of the 200-yard/meter target (WBSF200) will be approximately 8x8 inches with a black borderline one-half inch from the edge. The printing of the 900-yard target (WBSF300) shall be 18x18 inches with the border one-half inch from the edge. The printing on the 300-yard target (WBSF300) shall be 18x18 inches with the border one-half inch from the edge. The printing of the 900-yard target (wBSF300) shall be 18x18 inches with the border one-half inch from the edge. The printing of the 900-yard target (wBSF300) shall be 18x18 inches with the border one-half inch from the edge.

Second	Carried Yes	Nο

# Add Appendix B.1

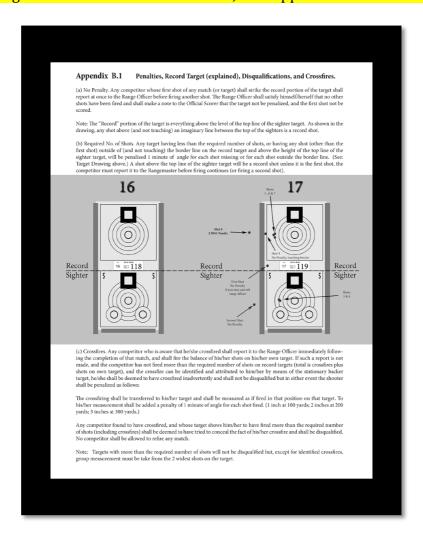
I have made a new appendix B to more clearly define the record portion of the target with a better drawing. There are no rule changes.

This will help in understanding these rules by having the photos and words in the same place. Page can easily be copied and given to shooters to help explain.

This is to replace target that was taken out of the NBRSA rule book. 100 yard target showing bullet hole outside border, and is a penalty.

The shot outside of the rectangular borde the target is a Penalty Shot (1 inch at 100 yards, 2 inches at 200 yds, 3 inches at 30 yds) and is not to be measured with the group. The group is first measured and the

Motion: Remove Target taken from NBRSA rule book, Add Appendix B.1 to back of WBSF Rule Book.



Second	Carried	Yes	No

## Remove last sentence of A.9

We have no need to require any type of yardage or metric distance on day after the formal competition has ended. This was true at WBC10 in South Africa were we contested the Championships at 100 and 200 meters. Then on the last day 300 yards was the distance, it was all they had available.

## A.9 Conduct of Events:

A World Championship shall be conducted every two years. All events at such Championships will be conducted in accordance with these Rules.

Where the HV300yd/m event cannot be conducted due to range or other limitations, the host country can offer an alternative event. (see A.11)

Should the host country traditionally conduct events in metric distances, same will be allowed, however all events for that Championship will be conducted in the metric distances.

## A.9 Conduct of Events:

A World Championship shall be conducted every two years. All events at such Championships will be conducted in accordance with these Rules. Where the a HV300yard/meter event cannot be conducted on the last day due to range or other limitations, the host country can offer an alternative event.

Second	Carried	Yes	No
Jecona	Carrica	103	110

# Add "Test Calculation" to shoot stat sheet to check calculations. Add section c.9.f to rule book.

This addition is not anything that will affect the shooting of the championships and does not need a delay of implementation.

We have used different ways to preform the calculations resulting in errors. We have had rounding errors, and many different ways to calculate MOA, calculations labeled MOA but were just a conversion to inches. By adding a "Test Calculation" to the stat sheet and inputting the correct groups we can see when the stats are printed if there are any problems with the calculations.

When shooting in meters and converting to MOA, we enter 29.09mm for each group at 100 meters and 58.18mm into each group at 200 meters.

When shooting in yards and measuring in inches, we enter 1.000in for each group at 100 yards and 2.000in into each group at 200 yards.

In both examples the MOA and agg will be calculated to 1.000 in the yardages, grands, and 2-Gun.

N / . ·	A 1 1 . ·	C 11	1 11	(( A 1 · TT	<i>y</i> , 1 1	C 1	1 1
Motion:	Add section a	s follows:	and add	"Appendix H	to back	of rule	DOOK;

Note: Appendix H is an aid to describe why we are doing this, and what to do to check the calculations.

- c.9.f Testing of Calculations
  - Host club will add a competitor to the stats with the a Name of "Test Calculation". Then the groups entered into this competitors stats are to be as follows;
  - A) For a tournament shot in Meters, measured in mm then 29.09 for each group at 100 meters, 58.18 for each group at 200 meters. (measured in inches, then 1.145 and 2.290)
  - B) For a tournament shot in yards, measured in inches, enter 1.000 for each group at 100 yards, 2.000 for each group at 200 yards.

Note; The intended outcome is to have yardage aggregates, grand aggregates and 2-Gun that are 1.000. This will clearly show if there are any math errors or rounding being done by the software being used during the shoots.

0 1	0 1 1 77	3.7
Second	Carried Ye	s No

# Split records into 2 Sets of Records

As was voted on at the delegates meeting in 2005 we decided on 2 sets of records, one for meters and one for yards, which were to be expressed in MOA.

I have provided the Split records;

- 1 set of split records expressed in MOA for meters, as measured (ave) for yards. (recommend) (small groups not converted, meters recorded in mm and inches, yards in inches.)
- 1 set of split records expressed in MOA for meters and yards

(small groups not converted, meters recorded in mm and inches, yards in inches.)

Motion:

- 1. Accept records in MOA for meters, as measured (average) for yards, any discovered errors in math will be corrected;
- 2. Insert updated split records into Championship manual, remove old format.









Full size Sheet are attached to end of this PDF File.

	Second	Carried Yes No
If above m	otion fails;	
Motion:	Accent split records for meter	rs and yards expressed in MOA, any discovered errors in
MOCIOII.	math will be corrected;	is and yards expressed in MOA, any discovered errors in
	Second	Carried Yes No

# Small group Records

Small groups have been taken from warm-up matches at some shoots and not from others. Records have been updated to reflect this. Besides the split of the records the only change was to the LV200 small groups.

Motion:	yards. S for tour		expressed as rs, and as mea	measured asured for	and converte tournaments	d to inches if mo shot in yards. (	y for both meters and easured in millimeters Note; this will not
		Second	(	Carried	Yes	No	
— <b>XXXX</b>	XXXXXX	XXXXXXXXXX	XXXXXXX	<del>(XXXX</del>	XXXXXX	<del>(XXXXXXX</del>	XXXXXXXX .
Agenda Ito	em #14						
		Clean up	rule boo	k recor	ds refere	ence.	
This is to	clean up th	e rule book after t	he split of r	ecords.			
C9e Recor	World Ch	d Championship Rec ampionship Recor in MOA per conve	rds will be o	officially		n the Imperial	system only and
Motion:	Change	e C9e to read as fo	llows;				
	C9e Reco	rding – World Cham World Championship MOA for tournament in yards.	Records will	be official	ly recorded a	s measured (mn	n or inches) and true n for tournaments shot
		Second	(	Carried	Yes	No	

# Minute of Angle (minute of arc) MOA

We use the term "MOA" to compare the targets and aggregates shot in meters to the targets and aggregates shot in yards.

With the split of the records there is no need to try and compare meters to yards.

We go through all of the trouble to measure groups to .001 inches, .01mm. We calculate aggs to .0001inches and .001mm. Then we provide a comparison between meters and yards and refer to it as "MOA". The term Minute of Angle MOA has a clearly defined meaning. 1 MOA is 1.047197667" at 100 yards. 1 MOA is 1.14522591 inches at 100 meters or 29.0887963mm.

To make the comparison to yards we provide the conversion factor to the Host countries.

True MOA is used by many shooting disciplines around the world. As an organization such as ours with a presence around the world we should strive to provide the best possible example. Part of our game is being precise. The way we have used and applied the term "MOA" is in error of about 5% (4.7198%).

It's time, when referring to MOA that we mean MOA.

N / - +:	Cl	$C \cap J \downarrow -$	Cl+ + l-: -	
Motion:	unange	U.90 TO	reflect this	as pelow:

## **C.9d** Recording World Championship Scores/Aggregates

Results will be published in the scoring format (imperial or metric) in which the 'event was completed and expressed in Minute of angle. (metric distance to Imperial distance conversion factor will be 29.09)

Second	Carried	Yes	No

VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	VV	
<del>- ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^</del>	A A	-

# Appendix G Math to convert to minute of Angle (MOA)

Motion: Add Appendix G to back of rule book;

Appendix G	Minute of Angle (MOA) Conversion	on Math
Н	ow to calculate Minute of Angle (MOA) in inches.	
A circle has a total of 360 degrees, each There are 21600 minutes in a complete Circumference of a circle is calculated as	circle. ( $360x60=21600$ ) s " $2\pi R$ " this is $2 \times 3.14159 \times R$ Radius (in inches) 100 yards =	3600 inches = 91440mm = 100000mm = 3937 inches
One MOA at 100 meters =	$21600 = 2 \times 3.14159 \times \text{Radius}$ (This is the total circumfe 1 minute = $(2 \times 3.14159 \times 3937)/21600 = 1.14522591$ 1 minute = $(2 \times 3.14159 \times 100000)/21600 = 29.088796$	inches
One MOA at 100 yards =	$21600 = 2 \times 3.14159 \times 3600 \text{ (This is the total circumfer } 1 \text{ minute} = (2 \times 3.14159 \times 3600)/21600 = 1.04719760 \\ 1 \text{ minute} = (2 \times 3.14159 \times 91440)/21600 = 26.598795$	7 inches
WBC shot in meters and me		
shot in yards and mea shot in yards and mea		
Misconception:	1 MOA = 1" at 100 yards	False
	1 MOA ≠ 1" at 100 yards	True
	1"at 100 yards = $.95493 \text{ MOA}_{(not 1.0)}$	
	1 MOA at 100y = 1.04719766"	True
100	Using 1 MOA = 1" at 100 yards (is an error of 4.7198%). .95493 MOA = 27.77775mm at 100 meters This MOA error at meters = (measured Agg in mm) / 27.	
100 meter with same	error = MOA at 100 meters in mm = (Agg in mm) / 1.0471970	DO
A circle has a total of 360 degrees, each Each degree has 62.8318 divisions that Thorage 22 610 448 divisions in a circ	equal .95493 MOA cle using .95493 MOA. ( 360x62.8318 = 22619.448)	3600 inches = 91440mm

# Cleanup rules conflict between C3 "Target Dislodged" and D6 "Time Limits".

These 2 sections conflict. The last sentence in D.6 "There shall be no exception to the requirement for all competitors to complete their string of fire within the time allowed." Undo the addition of the ability to shoot after the individual match. No backer should be exposed to the shooters without bein covered by the target.
D.6 Time Limits: this conflicts with another section that lets you add 3 mintes to the start  For all matches, including warm-up matches, the time limit will be 7 minutes for a "5-shot" match and 12 minutes for a "10-shot" match. There shall be no exception to the requirement for all competitors to complete their string of fire within the time allowed.
C3 Target Dislodged:  Should a Target be dislodged during a match, the match will continue uninterrupted. At the completion of the match, the Range Officer will assess and award extra time to the competitor to enable the match to be completed prior to proceeding with further competition.
Motion: Change C.3s to read as follows;
C3 Target Dislodged:  Should a Target be dislodged during a match before the competitor has completed his/her record target, the affected competitor must notify the range officer immediately so a cease fire may be called and the original target be reinstalled or secured back into the frame.
Second Carried Yes No
Needs delay to rule change since it affects the shoot and competitors

## Last line of A.7 was added to Rule Book in error.

The Office of Vice Chair was added in 2005, Ratigan was not a Delegate when elected in 2005. This addition does not appear in any meeting minutes in 2005, 2007, 2009 or 2011. Recommend to strike this sentence.

4.7	Delegates Committee Meetings:
	As a minimum, there will be a Delegates Committee Meeting held at each World Championship. The Delegates Committee will
	be conducted by an elected President or appointee. Representation will be by a delegate from each approved country who ma
	be accompanied by an official observer. Each delegate present at the meeting will hold one vote. The President may hold his
	countries vote or a casting vote, but not both. <del>The committee has authority to appoint a Vice-President from amongst the</del>
	<del>delegates</del>

It is important to have officers with some minimum qualifications, being a current delegate is not one of them.

This language would allow a single country to override the will of the WBSF Delegates.	

Motion: Remove last sentence of A.7, the result follows;

## A.7 Delegates Committee Meetings:

As a minimum, there will be a Delegates Committee Meeting held at each World Championship. The Delegates Committee will be conducted by an elected President or appointee. Representation will be by a delegate from each approved country who may be accompanied by an official observer. Each delegate present at the meeting will hold one vote. The President may hold his countries vote or a casting vote, but not both.

Second	Carried	Yes	No

## Remove Section E.15, this is the old duplicate, Section I.4 was added later.

E.15	Removal	0	f Bol	ts:
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All rifle bolts must be kept out of all rifles, except on the command of the Range Officer. This provision includes behind the firing line and in all other range areas including Loading Facilities, Parking areas etc. Breach of this rule could lead to disqualification from the championship at the discretion of the Championship Director.

## **1.4** *Bolts in rifles:*

Bolts may only be placed in rifles at the firing line and in accordance with range officer instructions. At all other times bolts may not be placed in a rifle unless they have been disassembled (firing pin removed) and a fellow competitor has witnessed this procedure. Failure to follow this procedure will result in disqualification of the competitor from that day's event.

1.5	Smoking
	Dilloning

No smoking is permitted in the reloading facility	y. Further restrictions may be applied by the Organising	3
Committee in accordance with local laws		

Motion:	Remove section E	.15 from rule book in it's entirety.	Also correct mistakes of labeling of
1.4 to I.4 and	correct 1.5 to I.5.		

Second	Carried	Yes	No

# **Reorganize Rule Book - No Rule Changes.**

I, Mike Ratigan, serving in the Office of Vice President am offering to reorganize our rule book.
As taken from our championship manual;
"Future administrators are encouraged to undertake regular reviews of the procedures to ensure they are current and relevant."
Our rule book reflects the face of Our organization I would consider changing the look of the Rule book to make it's appearance look more professional.
Possibility of adding some art work, possibly a logo. Also add drawings or illustrations to help define our rules where appropriate.
Also, it's time to make the Rule book available in PDF form, rather than a live file form that can be edited. I can also make this happen with acrobat pro 11 software. Live copy's should be kept by a minimum number of officers to guard against any life situations which would require a rewrite.
I would also like to consult with a friend and shooter who works in the field of creating manuals, I would like to learn more about a live appendix that does not need a complete redo on every edit.
I would like to remove as many cross references in the body of the book as possible. This type of thing begs for errors. We might move or change a rule without the realization that there are cross-references to the very thing we moved or changed. My friend that works in the industry will be able to give direction on this.
Motion: To affirm this project, and proceed.
Second Carried Yes No
Advise is needed on a pager size. Is A4 the most common size outside of the USA? Yes No  I will make the finish product on the most common paper format.

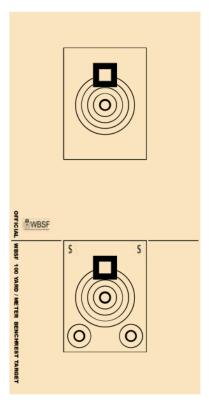
Update Index to reflect changes from this and previous meetings.
Motion: Vice President to move forward with any needed updates to index;
Second Carried Yes No  ********************************

# Appendix B

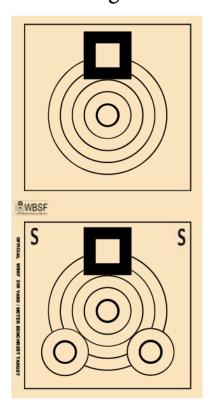
The official 100 yard/meter target (WBSF100) for all registered benchrest rifle competition shall have a ten ring of one half inch outside diameter. The nine ring shall be one-inch diameter. Succeeding rings shall increase one-half inch in outside diameter to and including the six ring. The aiming square shall be one inch square and placed tangent the eight ring at the twelve o'clock position. Thickness of the sides of the aiming square will be one quarter inch. The target shall have a black border line forming a rectangle 3.5 x 4.75 inches in size, which will be centred on a target card approximately 8x8 inches with no printing except the target inside the border line. A sighter target of the same basic design shall be on the same target card directly below the record target. The entire target card will measure approximately 8x16 inches. The sighter target is to have an S appear in both of the upper corners of the box. The target is to also have an additional 10 and 9 ring placed in the third and forth quadrants of the target. The additional 9 ring is to be tangent with the 8 ring. The distance between the record target bottom border and the top border of the sighter target should be approximately 3 1/2 inches. All of the printing of the target shall be done in black.

Targets for the longer ranges shall be increased in direct proportion to the range in all ring and, aiming square dimensions, except in ring thickness and distance between sighter and record targets. Overall size of the 200-yard/meter target (WBSF200) will be approximately 8x8 inches with a black borderline one-half inch from the edge. The printing of the 300-yard target (WBSF300) shall be 18x18 inches with the border one-half inch from the edge. The printing on the 300-yard targets shall be red.

100 Yard/Meter Target



200 Yard/Meter Target

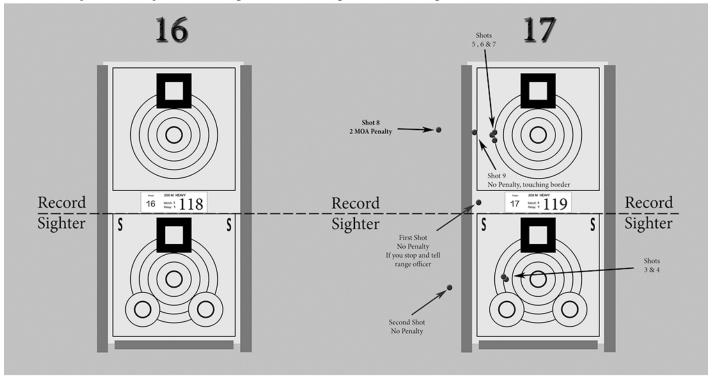


## Appendix B.1 Penalties, Record Target (explained), Disqualifications, and Crossfires.

(a) No Penalty. Any competitor whose first shot of any match (or target) shall strike the record portion of the target shall report at once to the Range Officer before firing another shot. The Range Officer shall satisfy himself/herself that no other shots have been fired and shall make a note to the Official Scorer that the target not be penalized, and the first shot not be scored.

Note: The "Record" portion of the target is everything above the level of the top line of the sighter target. As shown in the drawing, any shot above (and not touching) an imaginary line between the top of the sighters is a record shot.

(b) Required No. of Shots. Any target having less than the required number of shots, or having any shot (other than the first shot) outside of (and not touching) the border line on the record target and above the height of the top line of the sighter target, will be penalized 1 minute of angle for each shot missing or for each shot outside the border line. (See: Target Drawing above.) A shot above the top line of the sighter target will be a record shot unless it is the first shot, the competitor must report it to the Rangemaster before firing continues (or firing a second shot).



(c) Crossfires. Any competitor who is aware that he/she crossfired shall report it to the Range Officer immediately following the completion of that match, and shall fire the balance of his/her shots on his/her own target. If such a report is not made, and the competitor has not fired more than the required number of shots on record targets (total is crossfires plus shots on own target), and the crossfire can be identified and attributed to him/her by means of the stationary backer target, he/she shall be deemed to have crossfired inadvertently and shall not be disqualified but in either event the shooter shall be penalized as follows:

The crossfiring shall be transferred to his/her target and shall be measured as if fired in that position on that target. To his/her measurement shall be added a penalty of 1 minute of angle for each shot fired. (1 inch at 100 yards; 2 inches at 200 yards; 3 inches at 300 yards.)

Any competitor found to have crossfired, and whose target shows him/her to have fired more than the required number of shots (including crossfires) shall be deemed to have tried to conceal the fact of his/her crossfire and shall be disqualified. No competitor shall be allowed to refire any match.

Note; Targets with more than the required number of shots will not be disqualified but, except for identified crossfires, group measurement must be take from the 2 widest shots on the target.

# Appendix G

# Minute of Angle (MOA) Conversion Math

How to calculate Minute of Angle (MOA) in inches.

A circle has a total of 360 degrees, each degree has 60 minutes.

There are 21600 minutes in a complete circle. (360x60 = 21600)

Circumference of a circle is calculated as " $2\pi R$ " this is 2 x 3.14159 x Radius (in inches) 100 yards = 3600 inches = 91440mm

100 meters = 100000 mm = 3937 inches

One MOA at 100 meters =  $21600 = 2 \times 3.14159 \times \text{Radius}$  (This is the total circumference)

1 minute =  $(2 \times 3.14159 \times 3937)/21600 = 1.14522591$  inches 1 minute =  $(2 \times 3.14159 \times 100000)/21600 = 29.0887963$  mm

One MOA at 100 yards =  $21600 = 2 \times 3.14159 \times 3600$  (This is the total circumference)

1 minute =  $(2 \times 3.14159 \times 3600)/21600 = 1.047197667$  inches 1 minute =  $(2 \times 3.14159 \times 91440)/21600 = 26.5987953$  mm

WBC shot in meters and measured in mm, MOA = measured Agg in mm / 29.09

shot in meters and measured in inches, MOA = measured Agg in inches / 1.145

shot in yards and measured in inches, MOA = measured Agg in inches / 1.047

shot in yards and measured in mm, MOA = measured Agg in mm / 26.60

Misconception: 1 MOA = 1" at 100 yards False

 $1 \text{ MOA} \neq 1$ " at 100 yards True 1" at  $100 \text{ yards} = .95493 \text{ MOA}_{\text{(not 1.0)}}$  True 1 MOA at 100 y = 1.04719766" True

Using 1 MOA = 1" at 100 yards (is an error of 4.7198%).

.95493 MOA = 27.77775 mm at 100 meters

This MOA error at meters = (measured Agg in mm) / 27.77777

100 meter with same error = MOA at 100 meters in mm = (Agg in mm) / 1.04719766

A circle has a total of 360 degrees, each degree has 60 minutes.

Each degree has 62.8318 divisions that equal .95493 MOA

There are 22,619.448 divisions in a circle using .95493 MOA. (360x62.8318 = 22619.448)

Circumference of a circle is calculated as " $2\pi R$ " this is  $2 \times 3.14159 \times Radius$  (in inches) 100 yards = 3600 inches = 91440mm

100 meters = 100000 mm = 3937 inches

.95493 MOA at 100 yards =  $(2 \times 3.14159 \times 3600)^2/22619.448 = 1$  inch

.95493 MOA at  $100 \text{ meters} = (2 \times 3.14159 \times 100000)/22619.448 = 27.77777$ 

# Appendix H

# "Test Calculation"

.....to test calculations used on the Stat Sheets

Enter a competitor with first name of "Test", last name of "Calculation". This will come out as either "Test Calculation" or "Calculation Test" on the Stat sheet.

# Meters Only

For exact MOA Shot in Meters, measured in mm (conversion is agg/29.09)

Enter 29.09 in each group at 100 meters, yardage aggs in MOA will be 1.00000000, rounded to 1.000 Enter 58.18 in each group at 200 meters, yardage aggs in MOA will be 1.00000000, rounded to 1.000

For exact MOA Shot in Meters, measured in inches (conversions = agg/1.145)

Enter 1.145 in each group at 100 meters, yardage aggs in MOA will be 1.00000000, rounded to 1.0000 MOA Enter 2.290 in each group at 200 meters, yardage aggs in MOA will be 1.00000000, rounded to 1.0000 MOA

Grand aggs will be calculated to be 1.00000000, then rounded to 1.0000 MOA 2 gun aggs will be calculated to be 1.00000000, then rounded to 1.0000 MOA

## Yards Only

For Testing the Calculations of a tournament Shot in Yards, measured in inches (conversions = agg/1.000)

Enter 1.000 in each group at 100 yards, yardage aggs will be 1.00000000, rounded to 1.000

Enter 2.000 in each group at 200 yards, yardage aggs will be 1.00000000, rounded to 1.000

For Testing the Calculations of a tournament Shot in Yards, measured in inches (conversions = agg/25.40)

Enter 25.40 in each group at 100 yards, yardage aggs will be 1.00000000, rounded to 1.0000 Enter 50.80 in each group at 200 yards, yardage aggs will be 1.00000000, rounded to 1.0000

Grand aggs will be calculated to be 1.00000000, then rounded to 1.0000 2 gun aggs will be calculated to be 1.00000000, then rounded to 1.0000

# Records in Meters

Team 2 Gun Aggregate	Year	mm	MOA
USA 2 (G. Kelbly, W. Berger, T. Cantwell, G. Newick)	Start 1991	8.781915	.3019
USA 2 (S. Otto, B. White, M. Ratigan, G. Newick)	1999	7.087875	.2437
USA 1 (T. Boyer, L. Costa, G. Bukys, C. Harris)	2011	5.8806	.2022

# --- Light Varmint --- Records in Meters ---

Small Group 100 Me	eters		Year	mm In	ches	
Scott Withey	AUS	Start	1991	2.71 .1	07	
Don Powell	USA		1993	2.42 .0	95	
Paul Jung	FRA		1999	2.02 .0	80	
Steve Williams	RSA		2011	1.51 .0	59	
Small Group 200 Me	eters		Year	mm In	<u>iches</u>	
Christian Balagna	FRA	Start	1991	6.85 .2	70	
Eunice Berger	USA		1993	7.50 .2	<del>95</del>	
Kevin Duckworth	NZL		1999	7.18 .2	82	
Gene Bukys	USA		2003	4.32 .1	70	
Gaintonio Quaglino	ITA		2007	4.28 .1	69	
Carlos Pacheco	FRA		2011	2.27 .0	89	
100 Meter Aggregate			Year	mm M	OA	
Herve Du Plessis	FRA	Start	1991	6.356 .2	185	
Martin Menke	GER		1999	4.534 .1	559	
200 Meter Aggregate			Year	M	OA	
Roger Serian	FRA	Start	1991		495	
ĭ	USA	Start	1991	6.055 .2		
Mike Ratigan	ITA		2007	4.716 .1		
Giantonio Quaglino						
Mike Ratigan	USA		2011	4.436 .1	545	
Grand Aggregate			Year	mm		MOA
Tony Boyer	USA	Start	1991	7.4925		.2576
Mike Ratigan	USA		1999	5.8055		.1996
Mike Ratigan	USA		2011	4.92000		.1691

# --- Heavy Varmint -- Records in Meters ---

Small Group 100 Me	eters			Year	mm	Inches	
Carlos Pacheco		FRA	Start	1991	2.59	.102	
Joachim Schafer		GER		1999	1.35	.053	
Small Group 200 Mo	eters			Year	mm	Inches	
Faye Boyer	USA		Start	1991	5.01	.197	
Giuliano Turini	ITA			1999	4.66	.183	
Larry Costa	USA			2011	4.21	.166	
100 Meter Aggregate				Year	mm	MOA	
Jean-Pierre Troin	FRA		Start	1991	5.622		,
Andrea Atzl	AUT			1999			
Paul Jung	FRA			1999			)t
Darrel Loker	USA			2001	4.628	.1591	
Chris van Zijl	RSA			2007	4.446	.1528	
Jack Neary	USA			2011	4.064	.1397	
200 Meter Aggregate				Year	mm	MOA	
Faye Boyer	USA		Start	1991	6.975	.2398	
Enrico Erenzi	ITA			1999		.2063	
Tony Boyer	USA			2011		.1678	
, ,							
Grand Aggregate				Year	mm		MOA
Jean-Pierre Troin	FRA		Start	1991	6.346	5	.2182
Paul Jung	FRA			1999	6.090	5	.2094
Gene Bukys	USA			2011	4.7858	5	.1645
Two Gun Aggregate				Year	mm		MOA
Tony Boyer USA			Start	1991	7.2888	8	.2506
Mike Ratigan USA				1999	6.4350	0	.2212
Mike Ratigan USA				2007	6.077	5	.2089
Gene Bukys USA				2011	5.385	<i>7</i> 5	.1851
•							

# Records in Yards

Team 2 Gun Aggregate	Year	Aggregate
USA 1 (Faye Boyer, Don Powell, Lowell Frei) Start	1995	.4366
USA 2 (Ron Hoehn, Tony Boyer, Lester Bruno, Don Creach)	1997	.3075
USA 1 (Wayne Campbell, Tony Boyer, Armond Pagliai, Lowell Hottenstein)	2001	.2925
USA 3 (Billy Stevens, Jack Neary, Larry Scharnhorst, Allie Euber)	2005	.2649

# --- Light Varmint --- Records in Yards ---

Small Group 100 Yards			Year	Inches
Dennis Thornbury	USA	Start	1995	.145
Giuliano Turini	ITA		1997	.065
Small Group 200 Yards			Year	Inches
Stefan Karlsson	SWE	Start	1995	.335
Tony Boyer	USA		1997	.251
Tony Boyer	USA		2001	.214
Bill Goad	USA		2005	.184
100 Yard Aggregate			Year	Inches
Tony Boyer	USA	Start	1995	.2638
Eunice Berger	USA		1997	.2142
Brendan Atkinson	AUS		2001	.1588
200 Yard Aggregate			Year	Inches
Don Nielson	USA	Start	1995	.2936
Tony Boyer	USA		2001	.2188
Grand Aggregate			Year	Inches
Glenn Newick	USA	Start	1995	.3071
Tony Boyer	USA		1997	.2845
Brendan Atkinson	AUS		2001	.2207
Paul Jung	FRA		2005	.2129

# --- Heavy Varmint --- Records in Yards ---

Small Group 100 Yards			Year	Inches
Alan Peake	AUS	Start	1995	.106
Bo Petersson	SWE		1997	.098
Herve Du Plessis	FRA		2005	.080
Small Group 200 Yards			Year	Inches
Dennis Wagner	USA	Start	1995	.456
Bo Petersson	SWE		1997	.218
100 Yard Aggregate			Year	Inches
Alan Peake	AUS	Start	1995	.2082
Charles Huckeba	USA	Start	2001	.1870
Gharles Huckeba	03/1		2001	.1070
200 Yard Aggregate			Year	Inches
Markku Ahlava	FIN	Start	1995	.4752
Don Powell	USA		1997	.2647
Rex Reneau	USA		2005	.2218
Grand Aggregate			Year	Inches
Markku Ahlava	FIN	Start	1995	.3930
Ron Hoehn	USA		1997	.2504
Charles Huckeba	USA		2001	.2390
Two Gun Aggregate			Year	Inches
Tony Boyer	USA	Start	1995	.3789
Ron Hoehn	USA		1997	.2742
Brendan Atkinson	AUS		2001	.2625
Jari Raudaskoski	FIN		2005	.2480