

**Minutes ELECTRIC SECTIONS – GENERAL.**

**SATURDAY 6<sup>th</sup> of November 2021.**

**Please Note – Part of the Electric Track was deferred to Friday 11<sup>th</sup> November 20:00 CET to deal with the introduction of FWD in a timely manner. See additional notes at the end of these minutes.**

**1. CHAIRMAN'S WELCOME Mr's. Chris Hardisty & Paul Worsley**

The Electric Chairmen opened the meeting at  
Accompanied by: Frank Mostrey (Vice Chair Off-Road) and Krist Bultynck (Vice Chair Track).

**2. APOLOGIES FOR ABSENCE – ELECTRIC GENERAL**

Apologies have been received from:  
Member Countries present. Section subscription.

COUNTRY	PRESENT	SECTION SUBSCR
AUSTRIA	Gerhard STEINBOCK	FULL
<b>BELARUS</b>		NO SECTIONS
BELGIUM	Marc JOOSENS	FULL
BULGARIA		MEMB. NO ELEC.
CROATIA	Zvonimir MATOSIC.	MEMB. T/C only
CZECH REP.		FULL
DENMARK	Soren-Boy HOLST	FULL
ESTONIA		MEMB. NO SECS.
FINLAND		FULL
FRANCE	Julien JOST. Frederic ARRIVAT	FULL
GERMANY	Thomas KOHMANN	FULL
GREECE	Nikos NIKOLAKOPOULOS	FULL
HUNGARY		MEMB. OR & T/C
IRELAND		MEMB. OR ONLY
ITALY	Alessandro PAFUNDI.	FULL
LUXEMBOURG	Jeff MERSCH	MEMB. T/C only
MONACO		MEMB. T/C only
NETHERLANDS	Raymond HOUTMAN	FULL
NORWAY		FULL
POLAND		MEMB. T/C only
PORTUGAL	Pedro PEREIRA.	FULL
ROMANIA		MEMB. NO SECS.
RUSSIA	Dmitriy MALISHKO (no vote) Present	MEMB. NO SECS.
SLOVAK REP.	Matus MYDLA	FULL
SLOVENIA		MEMB. NO ELEC.
SPAIN	Alfonso PINEDA. Javier LLOBREGAT	FULL
SWEDEN	Kai KOIVURANTA. Mattias SKJOLDEBRAND	FULL
SWITZERLAND	Andres FRATTAROLI	FULL

TURKEY		MEMB. NO ELEC.
UNITED KINGDOM	Jim SPENCER. Oli MEGGITT	<b>FULL</b>
<b>TOTAL</b>		

Maximum votes for Elec. Sections = 23. Number of Federations represented to vote = 17

Other persons present:

### 3. MINUTES OF 2020 SECTION MEETING

November 2020 – Virtual AGM

Matters arising from the minutes: Accepted by Croatia, seconded by Sweden

The minutes were checked and accepted as written at the AGM 2020 - Accepted by Croatia, seconded by Sweden

The following person was elected to check the minutes of this year: Kai KOIVURANTA SBF

### 4. CORRESPONDENCE RECEIVED

To be dealt with in Section discussions.

### 5. RULE PROPOSALS (Does / May affect all Electric Sections)

**Note: The EFRA Committee has studied all received proposals and has come to an opinion over each one, The EFRA Section Chairman will inform the floor of such positions.**

The following changes that would have replaced the F1 as a participating class at EC's was discussed. There was the feeling that F1 should remain but the rules are replicated, with the following amendments as a whole to facilitate FWD class at ECs.

#### APPENDIX 3 ELECTRIC CARS

##### A GENERAL

##### Current Rule

3.2.

1/10 Touring scale & Formula 1 cars will be driven by a lithium based (LiPo/LiFe) battery with a nominal voltage of no more than 7.6v (LiPo)/ 6.6v (LiFe). Receiver batteries are not allowed.

##### Proposal

3.2.

1/10 Touring scale, TC, FWD and Formula 1 cars will be driven by a lithium based (LiPo/LiFe) battery with a nominal voltage of no more than 7.6v (LiPo)/ 6.6v (LiFe). Receiver batteries are not allowed.

##### Remarks

The F1 class is as good as dead. The cost and the quality of the tyres have killed this class. Many of the F1 drivers are now driving TC FWD cars. A class that has a lot of success in Europe and whose tyres are not expensive and of good quality. This class is very recognisable for the spectator and as a publicity class it can give a European Championship more glamour and can give the organiser more registrations.

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: ..Belgium.....**

**The proposal:  Passed Unanimously  Passed with .... for, .... against and .... abstentions.  Rejected with .... for, .... against and .... abstentions.  Amended**

## Current Rule

7.1.1.

European Championships are held in the following classes:

1/10 Off-Road Modified, 2WD & 4WD as separate classes.

1/12 Modified, using no less than 6.5 turn modified brushless and blinky.

1/12 Spec using 13.5 T Spec. brushless and blinky.

1/10 Touring Cars Modified & 1/10 Touring Cars using 13.5T Spec. Brushless

1/10 Formula One using 21.5T Spec. Brushless.

Starting May 2016, only motors included on the EFRA Homologation Lists are allowed at EC and GP events in the above Classes.

## Proposal

7.1.1.

European Championships are held in the following classes:

1/10 Off-Road Modified, 2WD & 4WD as separate classes.

1/12 Modified, using no less than 6.5 turn modified brushless and blinky.

1/12 Spec using 13.5 T Spec. brushless and blinky.

1/10 Touring Cars Modified & 1/10 Touring Cars using 13.5T Spec. Brushless

1/10 Touring Car FWD using 21.5T Spec. Brushless and Blinky

1/10 Formula One using 21.5T Spec. Brushless.

Starting May 2016, only motors included on the EFRA Homologation Lists are allowed at EC and GP events in the above Classes.

## Remarks

~~Replacement of F1 class by TC FWD using 21.5T Spec. Brushless and Blinky~~

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: ..Switzerland.....**

**The proposal: X Passed Unanimously o Passed with .... for, .... against and .... abstentions.**

**o Rejected with .... for, .... against and .... abstentions. o Amended**

**Current Rule**

---

## Current Rule

7.2.7.

Drivers that finished in the Top 10 at a 1/10 Touring Car Modified European Championship (indoor or outdoor) in the last 2 years are not allowed to participate at the 1/10 Touring Cars 13.5T Spec. Brushless European Championship. At the 1/10 Touring Car modified & 1/10 Touring Car 13.5T Spec. Brushless European Championships drivers are only allowed to enter one of the two classes.

## Proposal

7.2.7

Drivers that finished in the Top 10 at a 1/10 Touring Car Modified European Championship (indoor or outdoor) in the last **two championships held** are not allowed to participate at the 1/10 Touring Cars 13.5T Spec. Brushless **and the TC FWD 21.5T Spec. Brushless Blinky** European Championship. At the 1/10 Touring Car modified & 1/10 Touring Car 13.5T Spec. Brushless European Championships drivers are only allowed to enter one of the two classes. **All other drivers may compete in either 1/10 Touring Car Modified and TC FWD or 1/10 Touring Car 13.5T Spec. Brushless and TC FWD.**

## Remarks

no further comment necessary

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: ..Sweden.....**

EFRA AGM 2021

The proposal: **X Passed Unanimously** o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended  
Current Rule

---

#### Current Rule

8.1.2.

1/10th Touring & 1/10th Formula one EUROPEAN CHAMPIONSHIP:

DAY 1:\* 09:00 Registration, Open and a minimum 2 timed practice, 2 rounds of controlled Practice and 1 Qualifying Round

DAY 2:\* 09:00 1 timed practice (minimum) and 4 Qualifying Rounds

DAY 3:\* 09:00 1 Practice Final (minimum) and 3 finals for all

There will be a minimum of 10 min between start of round.

Based on the numbers of participants, this timetable can be changed by the organiser with agreement by the section chairman.

\*To be agreed at AGM.

#### Proposal

8.1.2.

1/10th Touring, F1 and TC FWD EUROPEAN CHAMPIONSHIP:

DAY 1:\* 09:00 Registration, Open and a minimum 2 timed practice, 2 rounds of controlled Practice and 1 Qualifying Round

DAY 2:\* 09:00 1 timed practice (minimum) and 4 Qualifying Rounds

DAY 3:\* 09:00 1 Practice Final (minimum) and 3 finals for all

There will be a minimum of 10 min between start of round.

Based on the numbers of participants, this timetable can be changed by the organiser with agreement by the section chairman.

\*To be agreed at AGM.

#### Remarks

no further comment necessary

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: ..Belgium.....**

The proposal: **X Passed Unanimously** o Passed with .... for, .... against and .... abstentions.

o Rejected with .... for, .... against and .... abstentions. o Amended

Current Rule

---

#### Current Rule

9.1.4.

Practice heats at 1/10 Touring Car Modified, 1/10 Touring Car 13.5T Spec.Brushless &1/10 F1 European Championships must not be longer than 5 minutes. In between two heats there can be a break of up to 3 minutes maximum.

#### Proposal

9.1.4.

Practice heats at 1/10 Touring Car Modified, 1/10 Touring Car 13.5T Spec.Brushless, 1/10 F1 European Championships &1/10 **TC FWD** European Championships must not be longer than 5 minutes. In between two heats there can be a break of up to 3 minutes maximum.

#### Remarks

no further comment necessary

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: ..Netherlands.....**

EFRA AGM 2021

The proposal: **X Passed Unanimously** o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended  
Current Rule

---

#### Current Rule

9.4.3.

1/10 Touring Cars & Formula 1:- The Qualifying Heats and Finals will be 5 minutes and the last lap plus the time to complete this last lap up to a max of 40 seconds.

All cars must be cleared by technical inspection before any result can be used for seeding.

At the start of the event at Team Managers Meeting (on Friday morning) it will be decided if the Qualification Rounds will be declared dry or wet based on the weather conditions.

#### Proposal

9.4.3

1/10 Touring Cars, Formula 1 and TC FWD :- The Qualifying Heats and Finals will be 5 minutes and the last lap plus the time to complete this last lap up to a max of 40 seconds.

All cars must be cleared by technical inspection before any result can be used for seeding.

At the start of the event at Team Managers Meeting (on Friday morning) it will be decided if the Qualification Rounds will be declared dry or wet based on the weather conditions.

#### Remarks

no further comment necessary

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: ...Denmark.....**

The proposal: **X Passed Unanimously** o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended

---

## APPENDIX 3 ELECTRIC CARS

### B REQUIREMENTS FOR ELECTRIC ON ROAD CLASSES

#### Current Rule

2.1.

Any newly homologated bodies must have the part number moulded into the front windscreen. For 1/10 Formula One Spec class, no body homologation is required.

#### Proposal

Any newly homologated bodies must have the part number moulded into the front windscreen.

#### Remarks

A body used in the TC FWD class must also be homologated. **(Stay as it is)**

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: X Not Seconded**

The proposal: o Passed Unanimously o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended

---

## Current Rule

### 2.3.

No portion of chassis, wheels and tyres, or equipment may extend beyond body except to the rear. (Exception - Formula car suspension chassis and abbreviated bodies with no engine cover).

## Proposal

No portion of chassis, wheels and tyres, or equipment may extend beyond body except to the rear.

## Remarks

no further comment necessary (Stay as it is)

Proposed by: EFRA, Bultynck Krist

Proposal Status:

Seconded by: **X Not Seconded**

The proposal:  Passed Unanimously  Passed with .... for, .... against and .... abstentions.  
 Rejected with .... for, .... against and .... abstentions.  Amended

---

## Current Rule

### 7.3.3.

Tyre Allowances.

For Spec Class -2 sets of 4 dry weather tyres (rubber) are allowed for qualifying.

Tyres from qualifying may be used in the finals.

For Modified Class: 3 sets of 4 dry weather tyres are allowed for qualifying.

For Formula Class - 1 set of 4 dry weather tyres (rubber) is allowed for qualifying and 1 additional set of rear dry weather tyres is allowed for the finals.

## Proposal

Tyre Allowances.

For Spec Class -2 sets of 4 dry weather tyres (rubber) are allowed for qualifying.

Tyres from qualifying may be used in the finals.

For Modified Class: 3 sets of 4 dry weather tyres are allowed for qualifying.

For Formula Class -1 set of 4 dry weather tyres (rubber) is allowed for qualifying and 1 additional set of rear dry weather tyres is allowed for the finals.

For TC FWD Class - 1 set of 4 dry weather tyres (rubber) is allowed for qualifying .

## Remarks

no further commentary needed

Proposed by: EFRA, Bultynck Krist

Proposal Status:

Seconded by: ....Switzerland.....

The proposal: **X Passed Unanimously**  Passed with .... for, .... against and .... abstentions.  
 Rejected with .... for, .... against and .... abstentions.  Amended

---

## Current Rule

### 8

Particular to 1/10 Formula One Spec Cars

## Proposal

Particular to 1/10 Touring Cars Front Wheel Drive

## Remarks

no further commentary needed

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: X Not Seconded**

**The proposal: o Passed Unanimously o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended**

---

## Current Rule

8.1.

Cars specification

Maximum width: 190 mm

Front independent king pin, coil spring suspension is allowed. Suspension pick up points must be mounted inside the body. Independent front shocks are not allowed. The main chassis plate must not protrude from the body when viewed from above.

Minimum weight = 1050 grams including personal transponder.

## Proposal

### Becomes New Rule

9.1

Cars specification

Maximum overall width:195 mm

Minimum weight = 1250 grams including personal transponder

Wing: maximum wing size including endplates:180mm wide and must be cut on the lines provided by the manufacturer. Wings to be mounted directly to the body (no spacer between shell and wing), on the moulded mounts provided at the back of the shell.

All features (front splitter/bumpers) from the original moulding must remain on the shell.

TC FWD car has to be only front wheel drive, four independently sprung wheels. The use of multiple-speed transmissions (gearbox) and slipper clutches is not allowed. No drive system may be connected to the rear wheels. The dimensions of the car are within the 1/10th Touring car FWD dimensions.

All electronic components (including motor, ESC and battery) must be contained entirely within the bodyshell, but otherwise the position of these items within the car and the general chassis layout is free.

Bodies:

Only bodies that comply to the body guideline for 1/10th TC FWD as per drawings in this handbook of real TC FWD 5-doors that have a minimum length of 420mm in the original car are allowed. No GT or Sports car or 4-doors sedan bodies are allowed. All TC FWD bodyshells to be submitted to the EFRA Bodyshell Homologation Officer for approval.

Wings:

The rear wing must be commercially available and made of lexan only. The rear wing may have a maximum width of 180mm and must be cut on the lines indicated by the manufacturer.

No other kind of wings on the bodyshell are allowed.

**Motor:**

**Any 21.5T brushless motor of the EFRA Homologation motorlist for Brushless Spec Motors (21.5) can be used with any Speed controller (ESC) using "0-Boost/Blinky" mode. The Maximum gear ratio is 4.5 But depending on the length/layout of the track it can be adjusted by the section chairman after consultation in the team managers meeting.**

## Remarks

**Because the F1 class continues to exist, rule 9.1 is made for this in the regulations**

specifications

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

Seconded by: ...Denmark.....

The proposal: **X Passed Unanimously** o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended

---

#### Current Rule

8.4.

Bodies:

Only Formula 1 body styles are allowed. Body must be painted in a race inspired theme. Single color themes are allowed but you must the included sticker sheet to detailed the car.

All cars must have a drivers figure installed in the cockpit.

#### Proposal

Bodies:

Only bodies that comply to the body guideline for 1/10th TC FWD as per drawings in this handbook of real TC FWD 5-doors that have a minimum length of 4200mm in the original car are allowed. No GT or Sports car or 4-doors sedan bodies are allowed. All TC FWD bodyshells to be submitted to the EFRA Bodyshell Homologation Officer for approval.

#### Remarks

Inducted as New Rule 9.1

Proposed by: EFRA, Bultynck Krist

Proposal Status:

Seconded by: ..... o Not Seconded

The proposal: o Passed Unanimously o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended

---

#### Current Rule

8.5.

Wings:

Front and rear wings must be commercially available and made of a molded ABS Style plastic. and to a design to be decided at the AGM. Front and rear wings made of Lexan material will not be allowed (this includes bolt on Lexan front wings over a smaller ABS plastic wing).

Wings equipped with any type of remote adjustment or DRS are not allowed.

Maximum height of any part of the rear wing cannot exceed highest point of the body . Any bolt-on, glued-on or moulded-in elevation on the body is to be ignored for the rear wing maximum height measurement.

#### Proposal

Wings:

The rear wing must be commercially available and made of lexan only. The rear wing may have a maximum width of 180mm and must be cut on the lines indicated by the manufacturer.

No other kind of wings on the bodyshell are allowed.

#### Remarks

Inducted as New Rule 9.1

Proposed by: EFRA, Bultynck Krist

Proposal Status:

Seconded by: ..... o Not Seconded

The proposal: o Passed Unanimously o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended

---



## APPENDIX 4 LITHIUM BATTERIES FOR ALL ELECTRIC CLASSES - TECHNICAL, RACE PROCEDURES & HOMOLOGATION. BRUSHLESS MOTORS 05 SIZE FOR 1/12th AND 1/10th ELECTRIC CLASSES.

### Current Rule

4.11.

The winding: Delta and Y wounded stators are permitted. Only circular (round) pure copper is permitted. There is no turn limit, but individual Classes may restrict the number of turns to a specific minimum.

### Proposal

The winding: Delta and Y wounded stators are permitted. Only circular (round) pure copper is permitted. There is no turn limit, but individual Classes may restrict the number of turns to a specific minimum. **No solid glue or 'filler' can be added to the wires of the final winding assembly . When the stator has been 'cut' to gain access to the wires, unwinding of the wires must be possible by normal 'hand' procedures. A small amount of lacquer added to the winding is allowed, providing unwinding by hand is possible.**

### Remarks

It must be possible to unwind the wires from the stator by simple 'hand' procedures to check wires and stator laminates

**Proposed by: EFRA, Worsley Paul**

**Proposal Status:**

**Seconded by: ...NL..... o Not Seconded**

**The proposal: o Passed Unanimously o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended**

---

### Current Rule

4.15.

The Winding: Only three slot (phase) 'Y' (star) wound stators are allowed. No delta wound stators allowed. Only circular (round) pure copper wire permitted.

The three slots of the stator must be wound with: -

21.5T Class:- 21.5 turns of - 2 wires at: 0.724 mm. maximum wire dia.

17.5T Class:- 17.5 turns of - 2 wires at: 0.813 mm. maximum wire dia.

13.5T Class:- 13.5 turns of - 2 wires at: 0.724 mm. maximum wire dia.

and - 2 wires at: 0.574 mm) maximum wire dia.

10.5T Class: - 10.5 turns of - 2 wires at: 0.813 mm. maximum wire dia.

and - 2 wires at: 0.643 mm) maximum wire dia.

Wire dimensions are before lacquer coating.

The electrical circuit through the windings can only be from the ends of the wires forming the designated number of turns. NOTE: The above metric wire diameter sizes are direct equivalents to the nominal AWG sizes previously shown. (Reference to AWG sizes removed for simplicity).

### Proposal

The Winding: Only three slot (phase) 'Y' (star) wound stators are allowed. No delta wound stators allowed. Only circular (round) pure copper wire permitted.

The three slots of the stator must be wound with: -

21.5T Class:- 21.5 turns of - 2 wires at: 0.724 mm. maximum wire dia.

17.5T Class:- 17.5 turns of - 2 wires at: 0.813 mm. maximum wire dia.

13.5T Class:- 13.5 turns of - 2 wires at: 0.724 mm. maximum wire dia.

and - 2 wires at: 0.574 mm) maximum wire dia.

10.5T Class: - 10.5 turns of - 2 wires at: 0.813 mm. maximum wire dia.

and - 2 wires at: 0.643 mm) maximum wire dia.

Wire dimensions are before lacquer coating.

**No solid glue or 'filler' can be added to the wires of the final winding assembly. When the stator has been 'cut' to gain access to the wires, unwinding of the wires must be possible by normal 'hand' procedures. A small amount of lacquer added to the winding is allowed, providing unwinding by hand is possible.** The electrical circuit through the windings can only be from the ends of the wires forming the designated number of turns. NOTE: The above metric wire diameter sizes are direct equivalents to the nominal AWG sizes previously shown. (Reference to AWG sizes removed for simplicity).

## Remarks

It must be possible to unwind the wires from the stator by simple 'hand' procedures to check wire dimensions and stator laminates.

Proposed by: EFRA, Worsley Paul

Proposal Status:

Seconded by: .....NL..... o Not Seconded

The proposal: o **Passed Unanimously** o Passed with .... for, .... against and .... abstentions.  
o Rejected with .... for, .... against and .... abstentions. o Amended

## 6. ITEMS FOR GENERAL DISCUSSION.

The Section Chairmen thanked all participants for a constructive meeting, and being no further business the meeting was closed at

## MEETING TO CONTINUE WITH ELECTRIC OFF-ROAD SECTION MEETING.



EFRA ANNUAL SECTION MEETING  
6-7th of November 2021

## Minutes ELECTRIC - OFF-ROAD.

### 1. CHAIRMAN'S WELCOME

Mr Paul Worsley

The Electric Off-Road Chairman opened the meeting at  
Accompanied by : Frank Mostrey (Vice Chairman).

Apologies have been received from:

COUNTRY	PRESENT	SECTION SUBSCR	REQUESTED:				Max33%
			EC	EC			
			Buggy 2wd	Buggy 4wd			%
AUSTRIA	Gerhard STEINBOCK	<b>FULL</b>					
<b>BELARUS</b>		NO					
BELGIUM		<b>FULL</b>					
BULGARIA		NO					
CROATIA		NO					
CZECH REP.		<b>FULL</b>					
DENMARK	Ulrich RASMUSSEN	<b>FULL</b>					
ESTONIA		NO					
FINLAND	Jukka HAKAMIES (Allocs by mail)	<b>FULL</b>	5	5			
FRANCE	Julien JOST. Frederic ARRIVAT	<b>FULL</b>					
GERMANY	Thomas KOHMANN	<b>FULL</b>					
GREECE	Nikos NIKOLAKOPOULOS	<b>FULL</b>					

HUNGARY		YES					
IRELAND		YES	2	2			
ITALY	Vito GERACI	FULL					
LUXEMBOURG		NO					
MONACO		NO					
NETHERLANDS	Raymond HOUTMAN	FULL					
NORWAY		FULL					
POLAND		NO					
PORTUGAL	Pedro PEREIRA (Allocs by mail)	FULL	1	1			
ROMANIA		NO					
RUSSIA		NO					
SLOVAK REP.	Matus MYDLA	FULL					
SLOVENIA		NO					
SPAIN	Javier LLOBREGAT	FULL					
SWEDEN	Mattias SKJOLDEBRAND. Kai KOIVURANTA	FULL					
SWITZERLAND	Andres FRATTAROLI	FULL	7	7			
TURKEY		NO					
UNITED KINGDOM	Jim SPENCER	FULL					
		<b>TOTALS</b>					

**Allocations can be changed till January 21<sup>st</sup>. 2022.**

Maximum votes for Off-Road Section = 19. Number of Federations represented to vote = 14

Other persons present:

### 3. MINUTES OF 2020 SECTION MEETING

November 2020 –Virtual AGM:

Matters arising from the minutes: None

The minutes were accepted as written at the AGM 2020. Minutes accepted as per. General Section.

The following person was elected to check the minutes of this year: Kai KOIVURANTA SBF

### 4. CORRESPONDENCE RECEIVED

Paul reported that there was no correspondence except from a few queries regarding the possibility of the EC taking place.

### 5. CHAIRMAN'S REPORT

With NO EFRA events taking place in 2021, there is zero to report. But I do hope that some normality can take place in 2022 and I wish all Federations success in achieving this.

### 6. EC AND GP'S 2022

No applications: All the already elected events moved up to 2022.

#### Provisional Race calendar 2022

Year/Date	Alt. Date	Status	Country	Venue
2022 May 06-08		IR (maybe W/Up)	United Kingdom	Nottinghamshire Retford(RHR)
2022 June 24-26		IR (maybe PR)	Belgium	Kampenhout

2022 June 27- July 02		EC	United Kingdom	Nottinghamshire Retford(RHR)
-----------------------------	--	----	----------------	------------------------------

BRCA questioned the close dates between the IR race at Kampenhout and the EC at RHR (UK), especially due to possible Covid Test requirements that could cause isolation issues. Paul W explained that Kampenhout could not move due to being part of large show and the EC at RHR could not move forward or backward by a week due to clashing with other EC's. Paul W. Reported that he had tried to get another EC moved to allow a larger interval, but this was not successful and the number of drivers involved that would likely do both events would maybe only be 4/6.

#### Future Race calendar Championships

Year/Date	Alt. Date	Status	Country	Venue
2023		EC	Netherlands	Utrecht

#### Recommendation for 2024: Malmo Sweden

Nominated Tyres for the 1/10<sup>th</sup>. Off-Road EC 2022:

Rear – Schumacher Dart, compound Yellow, Part # U6826. Insert MC0005

4WD Front – Schumacher Dart, compound Yellow, Part # U6825. Insert MC0004

NOTE: The above tyre and compound was nominated for the original 2020 event, it is possible that this could be reviewed, but will be confirmed by the end of Dec.

See AOB below for further ideas regarding tyre compound choice.

Allocations were made to each country as printed in the table form under item 2 on the agenda.

**All Federations MUST confirm their FINAL Allocation Numbers for each event to the relevant Section Chairman by 21<sup>st</sup>. January 2022 LATEST.**

## 7. RULE PROPOSALS.

No proposals have been submitted.

## 8. ELECTION OF SECTION CHAIRMAN.

The Vice Section Chairman will not re-stand.

Frank Mostery had decided to not continue with a position on the EFRA Board.

Paul W. thanked Frank for all the years of serving EFRA and all the work he had done for the Off-Road Section and for EFRA in General. Frank has been an integral part of EFRA for over twenty years and been involved in the RC sport for some 40+ years. Frank will be missed but certainly not forgotten.

## 9. ANY OTHER BUSINESS.

Chairman reported that there had been discussions with the 2022 EC Organisers (Robin Hood Raceway) regarding nominated tyres.

Off-Road rules require that one single tyre, compound and insert are used. But we know that the weather in UK is unpredictable and to have six continuous days without rain needs some 'luck'.

To have one tyre compound would need to be a compromise that would result in a choice that would not be ideal for wet or dry conditions. The organiser has suggested we amend the rule for this particular event to have one single tyre design but allow two different compounds to accommodate wet and dry conditions.

Tyres have to be purchased at the event, so only the tyre compounds needed would have to be purchased by competitors. The manufacturer can guarantee that enough numbers of both compounds would be available.

This is not an official rule proposal, so needs to be treated as a discussion topic. If the meeting considers this suggestion is viable, then it is possible that a postal vote could be conducted to amend the rule for the 2022 event.

Lots of discussion on this suggestion. Many Federation members were concerned that drivers would need to purchase additional tyres in case they were needed in a hurry. Many members were concerned that drivers not familiar with the track surface would not know when to change from a dry to wet tyre (or wet to dry). The general feeling of the members was that the current rule of one tyre, one compound, should be maintained, then all drivers would have the same situation.

Paul W. asked for a final view regarding if a postal vote should be done – no members supported this suggestion.

## 10. ITEMS FOR GENERAL DISCUSSION.

The Section Chairman thanked all participants for a constructive meeting, and being no further business the meeting was closed at –

### MEETING TO CONTINUE WITH ELECTRIC TRACK SECTION MEETING.



EFRA ANNUAL SECTION MEETING

6-7th of November 2021

## Minutes ELECTRIC - TRACK.

### 1. CHAIRMAN'S WELCOME

Mr Chris Hardisty

The Electric Track Chairman opened the meeting at  
Accompanied by Krist Bultynck Vice Chairman

### 2. APOLOGIES FOR ABSENCE

Apologies have been received from:

Member Countries presents, section subscription, allocations etc:

COUNTRY	PRESENT	SECTION SUBSCR	WC 1/10 Mod	EC 1/12 Mod	EC 1/12 Spec	EC 1/10 Mod	EC 1/10 Spec	F1 EC	F1 WC	FWD EC	FWD WC
AUSTRIA	Gerhard STEINBOCK	FULL	?	?	?	?	?	?	?	?	?
<b>BELARUS</b>		NO									
BELGIUM	Marc JOOSENS	FULL	?	?	?	?	?	?	?	?	?
BULGARIA		NO									
CROATIA	Zvonimir MATOSIC.	YES	2	0	0	0	3	3	?	0	0
CZECH REP.		FULL									
DENMARK	Soren-Boy HOLST	FULL	1	1	0	0	5	0	?	0	2
ESTONIA		NO									
FINLAND	Jukka Hakamies	FULL	?	?	?	?	3	7	?	?	?
FRANCE	Julien JOST. Frederic ARRIVAT	FULL	8	2	2	5	7	2	2	?	?
GERMANY	Thomas KOHMANN	FULL	10	4	8	7	5	3	3	3	3
GREECE	Nikos NIKOLAKOPOULOS	FULL	4	0	0	2	2	0	?	?	?
HUNGARY		YES									
IRELAND		NO									
ITALY	Allessandro PAFUNDI.	FULL	Lots	?	?	?	?	?	?*	?	?
LUXEMBOURG	Jeff MERSCH	YES	?	?	?	?	?	?	?	?	?
MONACO		YES									
NETHERLANDS	Raymond HOUTMAN	FULL	5	1	0	0	0	0	5	?	?
NORWAY		FULL									
POLAND		YES									
PORTUGAL	Pedro PERERIA.	FULL	1	0	0	1	0	0	0	?	?
ROMANIA		NO									
RUSSIA	Dmitriy MALISHKO (no vote)	NO									
SLOVAK REP.	Matus MYDLA	FULL	1	3	3	4	4	?	?	?	?

SLOVENIA		NO									
SPAIN	Javier LLOBREGAT	FULL	2	?	?	?	?	?	?	?	?
SWEDEN	Kai KOIVURANTA	FULL	4	5	3	4	0	0	?	?	?
SWITZERLAND	Andres FRATTAROLI	FULL	3	4	2	2	2				
TURKEY		NO									
UNITED KINGDOM	Jim SPENCER. Oli MEGGITT	FULL	6	4	15	2	1	2	2	1	1
<b>TOTAL</b>			<b>47+</b>	<b>24</b>	<b>33</b>	<b>27</b>	<b>32</b>	<b>17</b>	<b>12</b>	<b>?</b>	<b>?</b>

Allocations can be changed till January 21<sup>st</sup>. 2021.

Maximum votes for Track Section = 22. Number of Federations represented to vote = 16

Other persons present:

### 3. MINUTES OF 2020 SECTION MEETING

November 2020 – Virtual AGM

Matters arising from the minutes:

The minutes were checked and accepted as written at the AGM 2020. Minutes accepted as per. General Section.

The following person was elected to check the minutes of this year: Kai KOIVURANTA SBF

### 4. CORRESPONDENCE RECEIVED

. Any correspondences from the 2021 season.....

### 5. CHAIRMAN'S REPORT

A full report of the Season is presented by Section Chairmen

As there was no racing this year there was little to report on.

### 6. EC AND GP'S 2023/ 2022

No applications: All the already elected events moved to 2022.

#### Provisional Race calendar 2022

Year/Date	Alt. Date	Status	Country	Venue
2022	8 <sup>th</sup> – 10 <sup>th</sup> April	EC 1/12	Slovakia	Trencin
2022	TBC	WC Warm up	Gubbio	Italy
2022	24-26 June	EC 1/10	Slovakia	Trencin
2022	September	WC 1/10	Gubbio	Italy

#### Future Race Calendar Championships

Year/Date	Alt. Date	Status	Country	Venue
2023		EC 1/12	Netherlands	Sittard
2023		EC 1/10	Germany	Turkheim

#### NOTE – NO VENUE FOR 2023

Tyres for the 1/10<sup>th</sup> Touring Car EC 2022: See Rules.

Allocations were made to each country as printed in the table form under item 2 on the agenda

## 7. ALLOCATIONS

Allocations were made to each country as printed in the table form under item 2 on the agenda.

**All Federations MUST confirm their FINAL Allocation Numbers for each event to the relevant Section Chairman by 21<sup>st</sup>. January 2022 LATEST**

## 8. RULE PROPOSALS

**Note: The EFRA Committee has studied all received proposals and has come to an opinion over each one, The EFRA Section Chairman will inform the floor of such positions.**

**Rules to be reviewed on Friday 12<sup>th</sup> November at Extraordinary Section Meeting**

### Current Rule

2.1.

Any newly homologated bodies must have the part number moulded into the front windscreen. For 1/10 Formula One Spec class, no body homologation is required.

Proposal

Any newly homologated bodies must have the part number moulded into the front windscreen. For 1/10 Formula One Spec class, no body homologation is required.

### Remarks

A body used in the TC FWD class must also be homologated. **(Stay as it is)**

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: .....  Not Seconded**

**The proposal:  Passed Unanimously  Passed with .... for, .... against and .... abstentions.  
 Rejected with .... for, .... against and .... abstentions.  Amended**

---

### Current Rule

2.3.

No portion of chassis, wheels and tyres, or equipment may extend beyond body except to the rear. (Exception - Formula car suspension chassis and abbreviated bodies with no engine cover).

Proposal

No portion of chassis, wheels and tyres, or equipment may extend beyond body except to the rear.

### Remarks

no further comment necessary **(rule stay as it is)**

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: .....  Not Seconded**

**The proposal:  Passed Unanimously  Passed with .... for, .... against and .... abstentions.  
 Rejected with .... for, .... against and .... abstentions.  Amended**

---

### Current Rule

7.1.1.

Only bodies that comply to the body guideline for 1:10 electric touring car bodies as per drawings in this handbook of real touring cars that have a minimum length of 4200mm in the original car are allowed. No GT or Sports car bodies allowed. All Touring car bodyshells to be submitted to the EFRA Bodyshell Homologation officer for approval.

Proposal

Only bodies that comply to the body guideline for 1:10 electric touring car **bodies and TC FWD** bodies as per drawings in this handbook of real touring cars that have a minimum length of **420mm** in the original car are allowed. No GT or Sports car bodies allowed. All Touring car **and TC FWD** bodyshells to be submitted to the EFRA Bodyshell Homologation officer for approval.

**Remarks**

TC FWD bodyshells needs to be homologated

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: ..Belgium.....**

**The proposal:  Passed Unanimously  Passed with .... for, .... against and .... abstentions.  
 Rejected with .... for, .... against and .... abstentions.  Amended**

---

**Current Rule**

8.4.

Bodies:

Only Formula 1 body styles are allowed. Body must be painted in a race inspired theme. Single color themes are allowed but you must the included sticker sheet to detailed the car.

All cars must have a drivers figure installed in the cockpit.

Proposal

Bodies:

Only **bodies that comply to the body guideline for 1/10th TC FWD as per drawings in this handbook of real TC FWD 5-doors that have a minimum length of 420mm in the original car are allowed. No GT or Sports car or 4-doors sedan bodies are allowed. All TC FWD bodyshells to be submitted to the EFRA Bodyshell Homologation Officer for approval.**

**Remarks**

no further commentary needed **(Inducted as New Rule 9.1)**

**Proposed by: EFRA, Bultynck Krist**

**Proposal Status:**

**Seconded by: .....  Not Seconded**

**The proposal:  Passed Unanimously  Passed with .... for, .... against and .... abstentions.  
 Rejected with .... for, .... against and .... abstentions.  Amended**

---

## **9. ELECTION OF SECTION CHAIRMAN.**

The 1/12 Electric Track Chairman Mr Krist Bultynck is willing to re-stand

Krist was returned to the role unanimously.

## **10. ANY OTHER BUSINESS**



None

## 11. ITEMS FOR GENERAL DISCUSSION.

The Section Chairman thanked all participants for a constructive meeting, and being no further business the meeting was closed at 14:01 CET

Additional meeting – Introduction of FWD – Friday, 11<sup>th</sup> November at 20:00

In attendance.

COUNTRY	PRESENT
BELGIUM	Marc JOOSENS
DENMARK	Soren-Boy HOLST
FRANCE	Julien JOST. Frederic ARRIVAT
GERMANY	Thomas KOHMANN
GREECE	Nikos NIKOLAKOPOULOS
LUXEMBOURG	Jeff MERSCH
NETHERLANDS	Raymond HOUTMAN
PORTUGAL	Pedro PERERIA.
SLOVAK REP.	Matus MYDLA
SWEDEN	Kai KOIVURANTA
SWITZERLAND	Andres FRATTAROLI
UNITED KINGDOM	Jim SPENCER. Oli MEGGITT

12 votes in total.

Also in attendance were Frank Mostrey (IFMAR), Paul Worsley (EFRA), Willy Wuyts (EFRA).

Meeting was Chaired by Chris Hardisty and Kris Bultynk.

The attendees agreed to accept the whole of the proposal but to keep F1 as it is with the following points to be discussed.

Motor type/wind

ESC

Fixed maximum gear ratio.

This proposal with amendment was agreed unanimously CH and KB to rewrite the proposal to reflect this.

Motor wind/type

Some of the countries already run FWD and have adopted ETS rules for these items they have experience of a fixed timing 17.5 wind. EFRA does not have a motor on it's homologation lists that fits this category. It was the consensus that any 17.5 currently available from the EFRA homologation lists would be too fast but 17.5 would be an obvious choice. To move forward the voting tool was used to gain what the preference would be between the proposed 21.5 and 17.5. The majority agreed it would be prudent to adopt 21.5 until alternatives became available. EFRA needs to investigate availability of fixed timing 17.5 motors.

ESCs

To remain open but blinky, the discussion led to fixed maximum rpm. This requires research but is feasible requiring testing at the track and possible list for suitable ESCs.

Fixed gear ratio

All agreed to set a maximum of 4.5 but with wording to allow this to be amended on advice from the organiser (local knowledge), to be possible to alter at the Team managers meeting (after practise). The vote but be by the Team Managers.

## Conclusion

To adopt the amended proposal, see following for rule changes and additions. The main additional is to adopt a fixed gear ratio for FWD.  
EFRA needs to investigate what testing equipment it will need before max rpm can be specified as well as the ESCs capable of restricting motor rpm.

Meeting was closed at 21:20 CET