

# HELICOPTER MANUAL

## INDEX

## FOREWORD

WELCOME TO RALLY SWEDEN 2023

Due to the large number of helicopters expected to take part during Rally Sweden, the FIA, the Swedish Transport Agency and Rally Sweden have created these rules for registration and flying, to be followed by all pilots (Helicopter and Drone). By following these and in general being careful we hope that all flying associated with the rally will work without incidents or disturbances.

Kind regards

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## **APPENDIX 1**

### **OPERATING RULES**

To avoid collisions and for the sake of safety it is important to follow these rules.

The rules are an amendment to the rules and regulations that are published by the Swedish Transport Agency which apply over these.

A Restricted area is established during Sweden Rally from February 10 to February 12.

#### **1.1 PRIORITIES**

During Rally Sweden helicopters flying has different priority due to their task. For flying, start and landing the priority order is as follows.

- a. The FIA safety and technical helicopter. (HELI 1 and HELI 2)
- b. Organizer safety helicopter. (HELI 8 and HELI 9)
- c. WRC TV Filming helicopter. (HELI 4 and HELI 5)
- d. The ambulance helicopter (HELI 3)
- e. The Police helicopter (HELI 6 and HELI 7)
- f. Others, flying for VIP (HELI 10 to HELI 40)

**In the case of a Rally-incident/emergency helicopter d) and e) have priority.**

#### **1.2 FLYING AT SPECIAL STAGES**

During Rally Sweden 9-12 of February 2023 a restricted area is established. The restricted area is from ground up to 2000 ft. MSL, see APPENDIX 10

Only registered helicopters and drones are allowed to fly within the restricted area. If you encounter an unregistered helicopter, try to inform them of the rules that apply when flying in the rally area and inform the helicopter coordinator.

All other traffic are not allowed in the restricted area.

Report your intentions on "Rally Traffic" at 118:080 when you fly close to (0-2km), over and before landing and taking off at a special stage. (Rally Traffic, HELI 10 for landing in the middle of stage 11 from north)

Beware of the risk of WHITE OUT and take care so you don't blow snow on spectators and most important on competing cars.

When flying in the area VIP (passenger helicopters) fly in the space between 500-1000ft except for landing and take off, the Police and ambulance helicopters are normally operating between 1000-2000ft. Flying lower than 500ft is HELI 4 Wescam when filming on the stage. Drones operating in their own area along the stage, a start point and a stop point and the area between those is like a tunnel with 60m on each side and max 100m above the stage.

Try to land minimum 100 m (300ft) from the special stage and just after a rally car having gone past. Taking off should also take place just after a rally car have gone past. When taking off leave stage area and climb to at least 500 ft AGL as soon as possible.

Make sure you know the starting time for each stage. Remember that the cars start with 1- and 3-minutes interval respectively.

Use landing lights.

**Do not under any circumstances follow a competing car!**

Remember that a WRC TV helicopter works at low altitude filming cars. The helicopter will fly following cars and then turns around and go back to the start for their filming area. All other helicopters shall stay away from the area where the WRC TV helicopter is working. Avoid low flying over stage start/finish and no landing close, this can disturb the timekeeping.

In the event of a rally incident, the ambulance helicopter may need your landing place if no other place is available nearby. That means that the pilot must be close to the helicopter and be prepared to take off to vacate your place.

**Do not fly too close to spectators.**

**1.2.1 DRONEFLYING AREAS**

There will be some drones flying for filming during the event. They will have areas only for them to operate within. That will be areas along the stages with a start and stop position. The area will follow the special stage like a tunnel with 60 meter (200 ft) on each side and maximum 100 meter (300 ft) in height above the stage. In that area is only designated drones allowed to operate except in case of accident when they must be on ground so the Ambulance and Police will have the air free. No spectators are allowed in the area.

The drone operator should if possible, have a radio and monitoring frequency 118.080.

**1.3 WEATHER MINIMA AND INFORMATION**

Stay informed of the weather and follow the flying regulations for weather restrictions.

When flying at Rally Sweden you shall follow the normal weather restrictions for CAT and SPO operations.

For weather information and TAF: Umeå Airport tel. +46 or SMHI +46851788753. Try to coordinate weather information with other pilots.

**1.4 SUNRISE AND SUNSET**

Sunrise Friday February 10 in Umeå at 07:50 local time, Sunset 15:57 local time.

Sunrise Sunday February 12 in Umeå at 07:44 local time, Sunset 16:03 local time.

**APPENDIX 2**

**2.1 HELICOPTER NUMBERING**

Each registered helicopter will receive an allocated number to be used during the whole event. You will receive the number for your aircraft during the helicopter briefing before the event starts.

The sticker with your allocated number shall be tacked on each side of the aircraft. Make sure to clean the fuselage before attaching the sticker so it doesn't come off during flight.

The sticker with the allocated number shows that the aircraft is allowed to fly inside the restricted area and what task the helicopter is performing.

## **2.2 Allocated numbers:**

## **Call sign:**

1.	FIA Safety	HELI 1 Safety
2.	FIA Technical	HELI 2 Technical
3.	Ambulance	HELI 3 Ambulance
4.	WRC TV	HELI 4 Wescam
5.	WRC TV	HELI 5 Wescam
6.	Police	HELI 6 Police
7.	Police	HELI 7 Police
8.	Organizer	HELI 8
9,	Organizer	HELI 9
10-40.	Others	HELI 10- HELI 40

## **APPENDIX 3**

### **3.1 UMEÅ AIRPORT AND SERVICE PARK NOLIA**

Umeå airport (ESNU) is an open airport as normal. Normal procedures for flying in and out from the airport. We will have a designated area for parking of helicopters assigned to Rally Sweden, power for heating will be available to a certain degree, approx. 10 helicopters.

Landing place for Service Park Nolia: There will be a landing place for dropping and picking up passengers, no parking in that place except for the Police helicopter HELI 6.

### **3.2 SERVICE PARK NOLIA**

No flying over the service area Nolia.

Absolut forbidden to overfly the military area I 20 just north of the Service Park.

### **3.3 FUEL**

Fuel is available at the following locations.

Umeå airport ESNU. JET A1 and Avgas 100LL. Fuel Supplier AIR BP, Payment by BP Card or Fuel Request to Air BP Out of hours, TEL: +97 150 453 6032, E-mail: [airbpoutofhours@bp.com](mailto:airbpoutofhours@bp.com)

## APPENDIX 4

### 4.1 LANDING AT SPECIAL STAGES

Landing at special stages may take place at your own discretion and responsibility. Try to land minimum 100 m from the special stage and just after a rally car has gone past. It's not allowed to land at the designated landing location for the ambulance helicopter. Avoid landing close to stage start/finish areas.

### 4.2 TAKING OFF FROM SPECIAL STAGE

Taking off shall take place just after a rally car has gone past. When taking off leave stage area and climb to at least 500 ft AGL as soon as possible.

## APPENDIX 5

### 5.1 RADIOPROCEDURES

All communication must be in English.

Use the call sign you have received during the Rally. (HELI 12)

Only radio traffic concerning the rally is allowed.

When flying within the restricted area you must monitor the rally frequency 118.080 and if possible, also ESNU TWR 119.805.

Radio traffic from drones may occur. Identification call "Drone 1"

### 5.2

### 5.4 IMPORTANT FREQUENCIES

Rally Traffic	118.080
ESNU TWR	119.805
ESNU ATC	119.800

## APPENDIX 6

### 6.1 BRIEFING

Briefing is mandatory for all PIC. **No briefing no flying!**

Briefing will take place Thursday 9 of February at the airport, time 18:00 local time.

Please inform the helicopter coordinator when leaving the rally. (+4670-663 85 37)

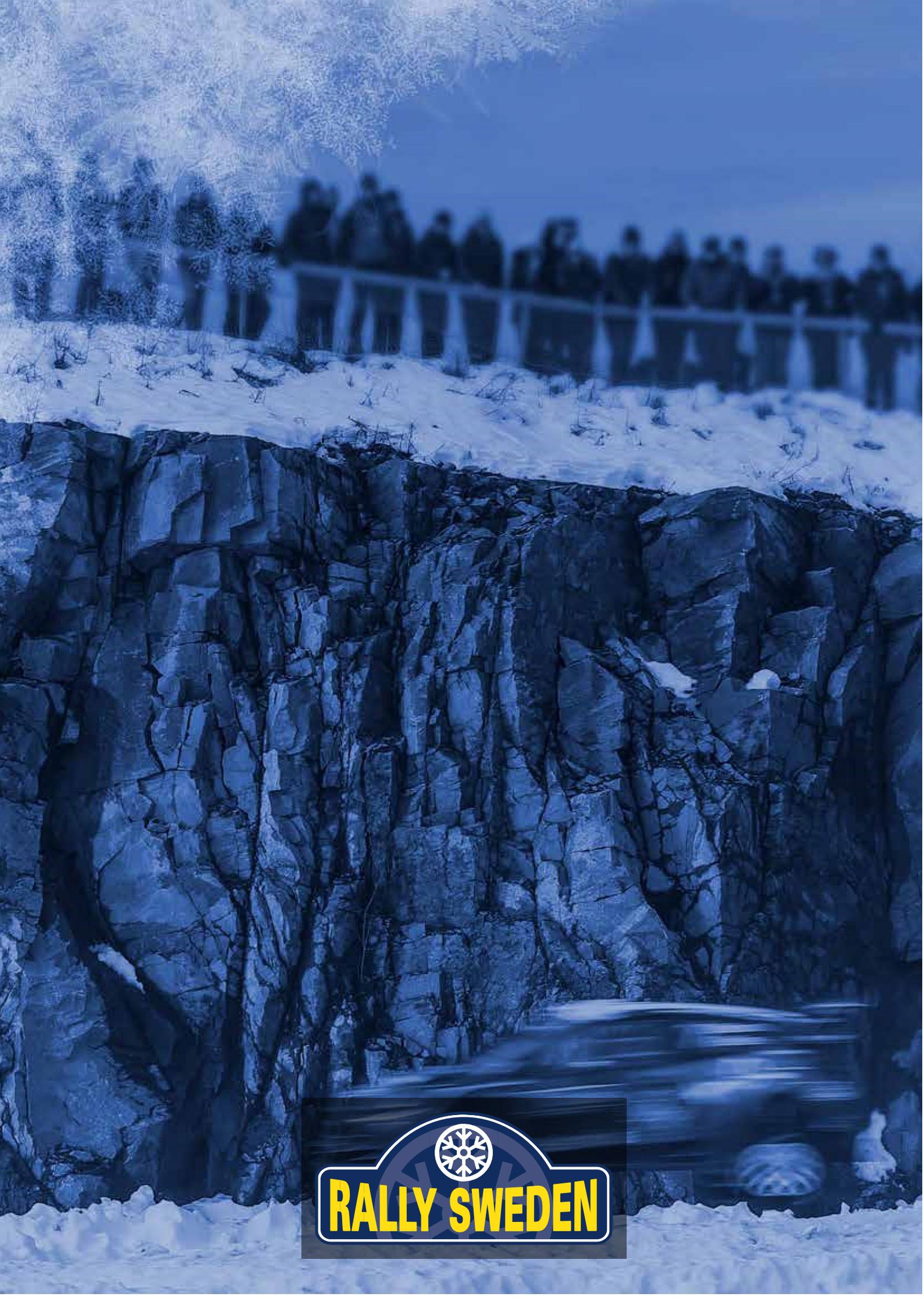
## APPENDIX 9

### REGISTERED HELICOPTERS / DELTAGANDE HELIKOPTRAR

CALL SIGN	REG	TYPE	PILOT	PHONE	COMPANY
1			No Helicopter Flying		FIA Safety
2			No Helicopter Flying		FIA Technical
3					
4	SE-JPF	AS 350 B3	Erik Gustavsson	+358 40 555 5563	Heliair Sweden
5			No Helicopter Flying		
6	SE-	Bell 429	Jerker Styven		Polisen
7					
8			No Helicopter Flying		
9			No Helicopter Flying		
10	OH-HOL	Robinsson R 44	Jussi Koivusaari	+358 50 55 06 400	Procopter OY
11	SE-JJM	EC 120	Andreas Wällberg	+46 73 505 27 33	Jonair Affärsflyg AB
12	SE-JNX	AS 350 B3	Adam Toolanen	+46 70 239 99 67	Kallaxflyg AB
13	OH-HOA	Robinsson R 44	Kari Kouvisto	+358 40 524 65 55	Ateno OY
43	SE-JXX	EC 130 T2	Mikael Bergmark	+46 73 040 34 34	Kallaxflyg AB
15	SE-JOX	EC 130 B4	Emmy Söderlund	+46 72 402 24 08	Kallaxflyg AB
16	SE-JDS	EC 120	Tom Raattamaa	+46 70 611 09 58	Kallaxflyg AB
17	SE-JTE	AS 350 B3	Kristian Höglund	+46 72 20 20 660	Storm Heliworks AB
18					
19					
20					
21					
22	SE-JJE	Robinsson R 44	Oskar Fahlgren	+46 70 237 33 80	TopHeli i Hemavan AB
23	SE-JIT	Robinsson R 44	Johan Ottosson	+46 76 113 88 87	Topheli i Hemavan AB
24	SE-JSE	Robinsson R 44			Topphele i Hemavan AB
25					
26					

– SLUT / END –





**RALLY SWEDEN**