

**AD 2 AERODROMES****ESOH 2.1 AERODROME LOCATION INDICATOR AND NAME****ESOH – HAGFORS****ESOH 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- |    |  |   |
|----|--|---|
| 1. | ARP coordinates and site at AD               | 600116N 0133444E RWY 625 m from THR 18  |
| 2. | Direction and distance from (city)           | W 5.4 NM from Hagfors   |
| 3. | Elevation/Reference temperature              | 474 ft/+22.6°C  |
| 4. | Geoid undulation at AD ELEV PSN              | 102 ft  |
| 5. | MAG VAR/Annual change                        | 5° E 2020/+0.2 increasing   |
| 6. | Administration, address, telephone, fax, AFS | Hagfors Airport<br>Flygplatsvägen 13<br>SE-683 93 Råda<br>TEL: +46 (0)563 603 68<br>E-mail: flygplats@hagfors.se<br>AFS: ESOHZTZX<br>Website: www.hagfors.se/hagforsairport             |
| 7. | Types of traffic permitted (IFR/VFR)         | IFR/VFR. Max RWY ref code 3C  |
| 8. | Remarks                                      | PPR for IFR and commercial traffic:<br>TEL: +46 (0)563 601 75 (ATS), +46 (0)563 603 68<br>E-mail: ats@hagfors.se, flygplats@hagfors.se<br>IFR traffic is only allowed when ATS is open. |

**ESOH 2.3 OPERATIONAL HOURS**

- |     |   |   |
|-----|---|---|
| 1.  | AD Administration<br>AD Operating hours | O/R<br>H24  |
| 2.  | Customs and immigration                 | -   |
| 3.  | Health and sanitation                   | -   |
| 4.  | AIS Briefing Office                     | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc   |
| 5.  | ATS Reporting Office (ARO)              | As ATS  |
| 6.  | MET Briefing Office                     | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc   |
| 7.  | ATS                                     | MON-FRI 0445-0600, 0815-0935, 1515-1625, 1715-1835<br>(0345-0500, 0715-0835, 1415-1525, 1615-1735)<br>SAT-SUN and HOL O/R |
| 8.  | Fuelling                                | MON-SUN O/R +46 (0)563 603 68   |
| 9.  | Handling                                | O/R   |
| 10. | Security                                | -   |
| 11. | De-icing                                | O/R   |
| 12. | Remarks                                 | Increased charges outside AFIS and AD Administration hours  |

**ESOH 2.4 HANDLING SERVICES AND FACILITIES**

|    |  |   |
|----|--|---|
| 1. | Cargo-handling facilities              | -   |
| 2. | Fuel/oil types                         | Fuel Jet A1, 100LL<br>Oil -   |
| 3. | Fuelling facilities/discharge capacity | Jet A1: 20 000 l<br>100LL: 10 000 l   |
| 4. | De-icing facilities                    | Available, Type I   |
| 5. | Hangar space for visiting ACFT         | O/R   |
| 6. | Repair facilities for visiting ACFT    | -   |
| 7. | Remarks                                | For payment of fuel major credit cards accepted.<br>Pressure refueling not available. |

**ESOH 2.5 PASSENGER FACILITIES**

|    |                      |            |
|----|----------------------|------------|
| 1. | Hotels               | In Hagfors |
| 2. | Restaurants          | In Hagfors |
| 3. | Transportation       | Taxi       |
| 4. | Medical facilities   | In Hagfors |
| 5. | Bank and Post Office | In Hagfors |
| 6. | Tourist Office       | In Hagfors |
| 7. | Remarks              | -          |

**ESOH 2.6 RESCUE AND FIRE FIGHTING SERVICES**

|    |   |   |
|----|---|---|
| 1. | AD category for fire fighting               | CAT 3 for SKED traffic, other O/R (Max CAT 6) |
| 2. | Rescue equipment                            | By arrangement                                |
| 3. | Capability for removal of disabled aircraft | -   |
| 4. | Remarks                                     | -   |

**ESOH 2.7 SEASONAL AVAILABILITY – CLEARING**

|    |                             |   |
|----|-----------------------------|---|
| 1. | Types of clearing equipment | Snowploughs, sweepers, blowers, slingers, spreaders                       |
| 2. | Clearance priorities        | RWY, Emergency access road, TWY, Apron                                    |
| 3. | Remarks                     | RWY, TWY and apron de-iced with SAND/UREA<br>No clearing SAT, SUN and HOL |

**ESOH 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

|    |                                     |                                |
|----|-------------------------------------|--------------------------------|
| 1. | Apron surface and strength          | Apron ASPH PCN 22 F/B/X/T      |
| 2. | Taxiway width, surface and strength | TWY A 15 m ASPH PCN 26 F/B/X/T |
| 3. | ACL, location and elevation         | Apron 474 ft                   |
| 4. | VOR checkpoints                     | -                              |
| 5. | INS checkpoints                     | -                              |
| 6. | Remarks                             | -                              |

**ESOH 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

- |    |   |   |
|----|---|---|
| 1. | Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands | Taxi giude lines and signs  |
| 2. | RWY and TWY markings and LGT  | RWY 18/36: Designator, THR, CL and edges are day marked RTHL, REDL, RENL<br><br>TWY A: CL, HLDG day marked. Edge LGT, RGL |
| 3. | Stop bars   | -   |
| 4. | Remarks   | -   |

**ESOH 2.10 AERODROME OBSTACLES**

| In Area 2           |           |                      |                     |                           |         |
|---------------------|-----------|----------------------|---------------------|---------------------------|---------|
| OBST ID/Designation | OBST type | OBST position        | ELEV/HGT<br>in feet | Markings/ Type,<br>colour | Remarks |
| a                   | b         | c                    | d                   | e                         | f       |
| ESOH1               | Pole      | 600044.9N 0133447.2E | 473 / -             | -                         | -       |
| ESOH2               | Shrub     | 600044.1N 0133440.6E | 484 / -             | -                         | -       |
| ESOH3               | Shrub     | 600042.9N 0133453.7E | 487 / -             | -                         | -       |
| ESOH4               | Forest    | 600042.3N 0133453.9E | 488 / -             | -                         | -       |
| ESOH5               | Forest    | 600041.8N 0133440.5E | 508 / -             | -                         | -       |
| ESOH6               | Forest    | 600041.6N 0133440.8E | 513 / -             | -                         | -       |
| ESOH7               | Shrub     | 600143.8N 0133447.4E | 488 / -             | -                         | -       |
| ESOH8               | Shrub     | 600144.3N 0133446.1E | 489 / -             | -                         | -       |
| ESOH9               | Shrub     | 600146.1N 0133432.3E | 492 / -             | -                         | -       |
| ESOH10              | Shrub     | 600148.5N 0133433.0E | 495 / -             | -                         | -       |
| ESOH11              | Forest    | 600155.7N 0133448.2E | 510 / -             | -                         | -       |
| ESOH12              | Forest    | 600202.6N 0133449.1E | 547 / -             | -                         | -       |
| ESOH13              | Forest    | 600203.6N 0133448.6E | 558 / -             | -                         | -       |
| ESOH14              | Forest    | 600204.4N 0133447.1E | 564 / -             | -                         | -       |
| ESOH15              | Forest    | 600204.5N 0133446.7E | 564 / -             | -                         | -       |
| ESOH16              | Forest    | 600211.8N 0133443.0E | 574 / -             | -                         | -       |
| ESOH17              | Forest    | 600215.0N 0133441.6E | 580 / -             | -                         | -       |
| ESOH18              | Forest    | 600218.6N 0133424.1E | 590 / -             | -                         | -       |

| In Area 3           |           |               |          |                           |         |
|---------------------|-----------|---------------|----------|---------------------------|---------|
| OBST ID/Designation | OBST type | OBST position | ELEV/HGT | Markings/ Type,<br>colour | Remarks |
| a                   | b         | c             | d        | e                         | f       |
| Not available       |           |               |          |                           |         |

## ESOH 2.11 METEOROLOGICAL INFORMATION PROVIDED

- |     |  |   |
|-----|--|---|
| 1.  | Associated MET Office  | STOCKHOLM/Arlanda                                 |
| 2.  | Hours of service<br>MET Office outside hours                           | H24   |
| 3.  | Office responsible for TAF preparation<br>Periods of validity          | TAF not produced                                  |
| 4.  | Type of landing forecast<br>Interval of issuance                       | Not issued  |
| 5.  | Briefing/consultation provided   | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc       |
| 6.  | Flight documentation<br>Language(s) used                               | METAR, SIGMET, Upper air winds<br>Swedish/English |
| 7.  | Charts and other information available for<br>briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast   |
| 8.  | Supplementary equipment available for<br>providing information         | -   |
| 9.  | ATS units provided with information                                    | HAGFORS AFIS                                      |
| 10. | Additional information (limitation of service,<br>etc.)                | Flight planning room available                    |

## ESOH 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations<br>RWY<br>NR | True BRG and<br>MAG BRG | Dimensions of<br>RWY (m) | Strength (PCN) and<br>surface of RWY and<br>SWY | THR coordinates<br>RWY end coordinates<br>THR geoid undulation | THR elevation and<br>highest elevation of<br>TDZ of precision<br>APCH RWY |
|---------------------------|-------------------------|--------------------------|---|--|---|
| 1                         | 2                       | 3                        | 4   | 5  | 6   |
| 18                        | 176.69° GEO<br>172° MAG | 1508 x 30                | PCN 25 F/B/X/T<br>ASPH                          | 600136.57N<br>0133441.24E<br><br>GUND 102.1 ft                 | THR 474.3 ft<br>TDZ 474.3 ft  |
| 36                        | 356.69° GEO<br>352° MAG | 1508 x 30                | PCN 25 F/B/X/T<br>ASPH                          | 600047.91N<br>0133446.87E<br><br>GUND 102 ft                   | THR 469 ft  |

| Slope of<br>RWY-SWY | SWY<br>dimensions (m) | CWY<br>dimensions (m) | Strip<br>dimensions (m) | OFZ | Remarks |
|---------------------|-----------------------|-----------------------|-------------------------|-----|---------|
| 7                   | 8                     | 9                     | 10                      | 11  | 12      |
| 18 See ESOH AOC     | -                     | -                     | 1628 x 280              | -   | -       |
| 36 See ESOH AOC     | -                     | -                     | 1628 x 280              | -   | -       |

## ESOH 2.13 DECLARED DISTANCES

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|----------------|----------|----------|----------|---------|---------|
| 1              | 2        | 3        | 4        | 5       | 6       |
| 18             | 1508     | 1508     | 1508     | 1508    | -       |
| 36             | 1508     | 1508     | 1508     | 1508    | -       |

**ESOH 2.14 APPROACH AND RUNWAY LIGHTING**

| RWY Designator | APCH LGT<br>Type, LEN<br>INTST           | THR LGT<br>Colour<br>WBAR | VASIS<br>(MEHT)                 | TDZ LGT<br>LEN | RWY Centre<br>Line LGT<br>LEN, Spacing<br>Colour<br>INTST | RWY Edge<br>LGT<br>LEN, Spacing<br>Colour<br>INTST            | RWY End<br>LGT<br>Colour<br>WBAR | SWY LGT<br>LEN,<br>Colour |
|----------------|--|---------------------------|---------------------------------|----------------|---|---|----------------------------------|---------------------------|
| 1              | 2  | 3                         | 4                               | 5              | 6   | 7   | 8                                | 9                         |
| 18             | Barrette CL<br>CAT I<br>900 m<br>LIL/LIH | Green                     | PAPI<br>Left/3.00°<br>(50.0 ft) | -              | -   | 1508/60 m<br>White<br>Caution zone<br>600 m yellow<br>LIL/LIH | Red                              | -                         |
| 36             | -  | Green                     | PAPI<br>Left/3.00°<br>(21.5 ft) | -              | -   | 1508/60 M<br>White<br>Caution zone<br>600 m yellow<br>LIL/LIH | Red                              | -                         |
| 10 Remarks: -  |  |                           |                                 |                |   |   |                                  |                           |

**ESOH 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1. ABN/IBN location, characteristics and hours of operation -
2. LDI location and LGT  
Anemometer location and LGT Lighted windsock S apron, windsocks at RWY ends  
At PAPI RWY 18
3. TWY edge and centre line lighting Edge: TWY A  
CL: -
4. Secondary power supply/switch-over time Available/15 sec
5. Remarks -

**ESOH 2.16 HELICOPTER LANDING AREA**

RWY 18/36 to be used

**ESOH 2.17 ATS AIRSPACE**

1. Designation and lateral limits HAGFORS TIZ/RMZ 600844N 0133718E - 600132N 0134406E -  
595352N 0133915E - 595339N 0133141E -  
600100N 0132526E - 600832N 0133016E -  
600844N 0133718E
2. Vertical limits HAGFORS TIZ/RMZ 1000 ft GND  
GND
3. Airspace classification G
4. ATS unit call sign HAGFORS INFORMATION  
Language(s) Swedish/English
5. Transition altitude 5000 ft AMSL
6. Remarks Continuous two-way radiocommunication required in TIZ/RMZ.  
TIZ/RMZ established during hours of AFIS.

## ESOH 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign           | Channel/Frequency | Hours of operation | Remarks |
|---------------------|---------------------|-------------------|--------------------|---------|
| 1                   | 2                   | 3                 | 4                  | 5       |
| AFIS                | HAGFORS INFORMATION | 122.230           | HO                 | VDF     |
|                     |                     | 121.500           | HO                 | VDF     |

## ESOH 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid<br>CAT of ILS/MLS<br>(for VOR/ILS/MLS<br>give VAR) | ID  | Frequency  | Hours of<br>operation | Site of<br>transmitting<br>antenna<br>coordinates | Elevation of DME<br>transmitting<br>antenna | Remarks   |
|--|-----|------------|-----------------------|---|---|---|
| 1  | 2   | 3          | 4                     | 5   | 6   | 7   |
| LOC 18<br>ILS CAT I<br>(5° E 2020)                             | IHF | 110.10 MHz | H24                   | 600042.9N<br>0133447.5E                           |   | 155 m beyond THR 36                               |
| GP   |     | 334.40 MHz | H24                   | 600125.7N<br>0133434.4E                           |   | Angle 3.0° RDH 49.9 ft<br>330 m THR 18 right side |
| L 18   | HT  | 345 kHz    | H24                   | 600634.7N<br>0133403.0E                           |   | Range 15 NM                                       |
| L 36   | AB  | 393 kHz    | H24                   | 595701.5N<br>0133509.0E                           |   | Range 15 NM                                       |
| DME  | IHF | 110.10 MHz | H24                   | 600125.6N<br>0133434.2E                           | 488 ft                                      | DME channel 38X                                   |

## ESOH 2.20 LOKALA TRAFIKFÖRESKRIFTER

- NDB 36 och AB väntläge får användas efter tillstånd från ESOK ATS. Se ESOH-5-4.
- För landning utanför ATS öppethållning ska avsikt att landa och tid till landning tydligt aviseras på kanalen för Hagfors AFIS, följt av att banan korsas på trafikvarvshöjd +500 ft för säkerställande av fri tillgänglighet samt för att uppmärksamma flygplatspersonal.
- För start utanför ATS öppethållning ska avsikt att starta samt tid till start tydligt aviseras på kanalen för Hagfors AFIS.

## LOCAL TRAFFIC REGULATIONS

- NDB 36 and AB holding is available with prior permission from ESOK ATS. See ESOH-5-4.
- For landing outside ATS operational hours intention to land and time to landing shall be clearly declared on channel for Hagfors AFIS, followed by a RWY crossing at AD traffic pattern altitude +500 ft in order to verify RWY availability and to alert AD personnel of presence.
- For take-off outside ATS operational hours intention to start and time to start shall be clearly declared on channel for Hagfors AFIS.

## ESOH 2.21 MINSKNING AV BULLERSTÖRNING

- Överflygning av Råda samhälle (SE RWY 18) och Uddeholm samhälle bör undvikas.
- Upprepade studs-och-gå är förbjudet mellan 2100-0500 (2000-0400).

## NOISE ABATEMENT PROCEDURES

- Overflying Råda (SE end RWY 18) and Uddeholm should be avoided.
- Repeated touch-and-go landings are prohibited between 2100-0500 (2000-0400).

**ESOH 2.22 FLYGPROCEDURER****FLIGHT PROCEDURES**

1. Startprocedurer, omnidirectional

1. Omnidirectional departure procedures

| RWY | Procedure  | Significant obstacle |                |                                   |
|-----|--|----------------------|----------------|-----------------------------------|
|     |  | Obstacle             | Elevation (ft) | Direction (GEO)/Dist (m) from THR |
| 18  | Climb straight ahead with MNM 230 ft/NM (3.8%) to MNM turning ALT 1300 ft.<br>Continue climb to appropriate MSA. | Tree                 | 778            | 167°/4650                         |
| 36  | Climb straight ahead with MNM 310 ft/NM (5.0%) to MNM turning ALT 1400 ft.                                       | Tree (CIO)           | 1086           | 015°/6150                         |

2. Lägsta RVR för avgående trafik är 550 m.

2. Minimum RVR for departing traffic is 550 m.

**ESOH 2.23 ÖVRIG INFORMATION****ADDITIONAL INFORMATION**

1. Nya flygoperatörer vid Hagfors flygplats med luftfartyg tillhörande referenskodsiffran 3 skall ha tagit del av den aktuella hindersituationen och övriga avsteg från referenskod 3C innan flygplatsen trafikeras. Dokumentation tillhandahålls av flygplatsen. Flygoperatören skall innan trafiken påbörjas redovisa för flygplatsen att de kan operera på ett säkert sätt.

1. New operators at Hagfors AD with aircraft belonging to aerodrome reference code number 3 shall review the obstacle situation and other deviations from reference code 3C. Documentation of the deviations is available from the aerodrome administration. Before the traffic commences, the operator must present to the aerodrome that they can operate safely.

2. Undantag från krav i CS ADR-DSN för flygplatsreferenskod 3C:

- Delar av stråket uppfyller inte krav på stråkbredd
- Det finns fasta föremål på stråket
- Det finns hinder i den koniska ytan, horisontella ytan, inflygningsytan, start- och stigyten, övergångsytor och stråkytor

2. Exemptions from requirements in CS ADR-DSN for aerodrome reference code 3C:

- Parts of the runway strip does not fulfil the requirement for width of runway strip
- There are objects on the runway strip, which do not fulfil the requirement
- There are obstacles penetrating the conical surface, horizontal surface, approach surface, take-off- and climb surface, transitional surfaces and strip surface

3. Nedsvep kan förekomma på final RWY 36.  
Risk för turbulens på kort final RWY 36.

3. Downdraught may occur on final RWY 36.  
Risk for turbulence on short final RWY 36.

4. Var uppmärksam på fåglar i anslutning till RWY 18/36.

4. Caution advised, concentration of birds RWY 18/36.

**ESOH 2.24 TILLHÖRANDE KARTOR****RELATED CHARTS**

|  |          |
|--|----------|
| AD Chart                                 | ESOH 2-1 |
| AOC RWY 18/36                            | ESOH-3-1 |
| List of waypoints and significant points | ESOH 4-3 |
| IAC ILS or LOC RWY 18                    | ESOH 5-1 |
| IAC NDB RWY 18 (Cat A/B)                 | ESOH 5-2 |
| IAC NDB RWY 36 (Cat A/B)                 | ESOH 5-3 |
| IAC RNP RWY 36                           | ESOH 5-5 |
| IAC RNP RWY 18 (LPV, LNAV only)          | ESOH 5-9 |
| VAC                                      | ESOH 6-1 |