AD 2 AERODROMES

ESNQ 2.1 AERODROME LOCATION INDICATOR AND NAME

ESNQ - KIRUNA

ESNQ 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	**ARP coordinates and site at AD**	674917N 0202008E BRG 033.7° GEO 1150 m from THR 03
2.	**Direction and distance from (city)**	SE 2 NM from Kiruna
3.	**Elevation/Reference temperature**	1509 ft/+19.7°C
4.	**Geoid undulation at AD ELEV PSN**	98 ft
5.	**MAG VAR/Annual change**	10° E (2020)/+0.2 increasing
6.	**Name of aerodrome operator, address, telephone, telefax numbers, AFS, e-mail, website**	Swedavia AB Kiruna Airport Box 831 SE-981 28 Kiruna TEL: +46 10 109 46 00 FAX: +46 10 109 46 50 E-mail: krn.groundhandling@swedavia.se AFS: ESNQZTZX Website: www.swedavia.se/kiruna Website: www.swedavia.net/airport/kiruna
7.	**Types of traffic permitted (IFR/VFR)**	IFR/VFR. Max RWY ref code 4D
8.	**Remarks**	PPR for CIV and MIL ACFT 5 days prior to planned arrival or departure. The following TFC is exempted: HOSP, STATE, SAR, SKED TFC, SWE/EU/NATO MIL and operators with sanction agreement. Requests shall be sent to krn.ppr@swedavia.se

ESNQ 2.3 OPERATIONAL HOURS

1.	**AD operator**	MON-FRI 0800-1600 (0700-1500)
	AD Operating hours	Ref AIP SUP/NOTAM
2.	**Customs and immigration**	O/R +46 8 456 66 20, kcgs.vb@tullverket.se
3.	**Health and sanitation**	-
4.	**AIS Briefing Office**	FPC, H24, +46 8 797 63 40, www.lfv.se/fpc
5.	**ATS Reporting Office (ARO)**	FPC H24
6.	**MET Briefing Office**	FPC, H24, +46 8 797 63 40, www.lfv.se/fpc
7.	**ATS**	TWR opens 15 min prior AD operating hours. Closes as AD operating hours.
8.	**Fuelling**	As AD HR of OPS
9.	**Handling**	For scheduled flights. Other O/R
10.	**Security**	Screening and CSRA for scheduled flights, other O/R
11.	**De-Icing**	For scheduled flights, other O/R
12.	**Remarks**	Increased charges outside AD HR of OPS (AD OPR HRS EXTD) PPR required for operations outside AD operational hours (AD CLSD) subject to a signed agreement. Applications shall be submitted during AD operator hours to krn.safety@swedavia.se

ESNQ 2.4 HANDLING SERVICES AND FACILITIES

1.	**Cargo-handling facilities**	Available
2.	**Fuel and oil types**	Fuel: Jet A1 Oil: -
3.	**Fuelling facilities and capacity**	Jet A1: 200,000 l fuel truck/stationary
4.	**De-icing facilities**	Available, Type I and II, mobile unit
5.	**Hangar space for visiting ACFT**	Available up to B747-400
6.	**Repair facilities for visiting ACFT**	Limited
7.	**Remarks**	Towing by towbar, limited availability of towbars. Fuel on Shell (fuel and fly or carnet) and major credit cards.

ESNQ 2.5 PASSENGER FACILITIES

1.	**Hotels**	In Kiruna
2.	**Restaurants**	At AD (only for departing passengers other O/R)
3.	**Transportation**	Buses, taxis, rental cars
4.	**Medical facilities**	In Kiruna
5.	**Bank and Post Office**	Bank: In Kiruna Post: In Kiruna
6.	**Tourist Office**	In Kiruna
7.	**Remarks**	-

ESNQ 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	**AD category for fire fighting**	CAT 5. CAT 6 for SKED TFC other O/R
2.	**Rescue equipment**	Tracked vehicle
3.	**Capability for removal of disabled aircraft**	By arrangement. On-the-scene commander during AD Operating hours. TEL: +46 72 387 38 69.
4.	**Remarks**	-

ESNQ 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1.	**Types of clearing equipment**	Snowploughs, sweepers, blowers, slingers
2.	**Clearance priorities**	RWY, TWY, Apron
3.	**Use of material for movement area surface treatment**	AD uses frozen SAND for treatment of RWY.
4.	**Specially prepared winter runways**	RWY 03/21 approved (by the Swedish Transport Agency) for reporting specially prepared winter runway. For more information contact krn.safety@swedavia.se.
5.	**Remarks**	-

ESNQ 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1.	**Apron surface and strength**	Apron ARENA ASPH ASPH PCN 53/F/B/X/T Apron ARENA CONC CONC PCN 49/R/B/X/T Apron TERMINAL ASPH ASPH PCN 45/F/B/X/T Apron TERMINAL CONC CONC PCN 54/R/B/X/T Apron HANGAR 2 ASPH PCN 47/F/B/X/T
2.	**Taxiway width, surface and strength**	TWY A 23 m ASPH PCN 50/F/B/X/T TWY B 23 m ASPH PCN 51/F/B/X/T TWY Y 23 m ASPH PCN 41/F/B/X/T
3.	**ACL, location and elevation**	-
4.	**VOR checkpoints**	-
5.	**INS checkpoints**	See ESNQ Parking and Docking Chart

6.	**Remarks**	TWY Y ref Code C wingspan < 36 m.

ESNQ 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 guide lines and signs. Marshalling and follow-me service available.
2.	**RWY and TWY markings and LGT**	RWY 03/21: Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL. TWY A: CL, HLDG day marked. Edge lights, RGL. TWY B: CL, HLDG day marked. Edge lights, RGL. TWY Y: CL day marked. Edge lights.
3.	**Stop bars**	-
4.	**Remarks**	In absence of visual aids (markings) taxiing to stand positions shall be done by marshalling hand signals. In addition to marshalling hand signals, follow-me service may be used.

ESNQ 2.10 AERODROME OBSTACLES

In Area 2				
OBST ID/Designation	**OBST type**	**OBST position**	**ELEV/HGT**	**Markings/ Type, colour**
a	**b**	**c**	**d**	**e**
ESNQ1	SIGN	674847.1N 0201906.8E	1518 ft / -	-
ESNQ2	VEGETATION	674840.6N 0201855.7E	1529 ft / -	-
ESNQ3	NAVAID	674834.1N 0201851.2E	1540 ft / -	-
ESNQ4	VEGETATION	674834.4N 0201838.8E	1546 ft / -	-
ESNQ5	VEGETATION	674832.2N 0201838.0E	1549 ft / -	-
ESNQ6	TREE	674820.0N 0201844.7E	1567 ft / -	-
ESNQ7	TREE	674813.0N 0201838.2E	1580 ft / -	-
ESNQ8	TREE	674749.5N 0201749.4E	1621 ft / -	-
ESNQ9	TREE	674751.2N 0201735.0E	1629 ft / -	-
ESNQ10	TREE	674753.6N 0201724.2E	1640 ft / -	-
ESNQ11	TREE	674742.8N 0201748.6E	1649 ft / -	-
ESNQ12	TREE	674740.7N 0201756.0E	1654 ft / -	-
ESNQ13	TREE	674737.0N 0201750.2E	1664 ft / -	-
ESNQ14	TREE	674739.3N 0201704.4E	1673 ft / -	-
ESNQ15	TREE	674734.2N 0201712.4E	1677 ft / -	-
ESNQ16	TREE	674734.2N 0201704.7E	1681 ft / -	-
ESNQ17	TREE	674730.3N 0201717.4E	1686 ft / -	-
ESNQ18	TREE	674730.2N 0201714.6E	1691 ft / -	-
f Remarks:	-			

In Area 3				
OBST ID/Designation	**OBST type**	**OBST position**	**ELEV/HGT**	**Markings/ Type, colour**
a	**b**	**c**	**d**	**e**
f Remarks:	Not available			

ESNQ 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	**Associated MET Office**	STOCKHOLM/ARLANDA
2.	**Hours of service** **MET Office outside hours**	H24

3.	**Office responsible for TAF preparation** **Periods of validity, interval of issuance**	STOCKHOLM/ARLANDA 9 HR, https://tafplanner.smhi.se/app.php/production-program
4.	**Trend forecast** **Interval of issuance**	-
5.	**Briefing/consultation provided**	FPC H24, +46 8 797 63 40, www.lfv.se/fpc
6.	**Flight documentation** **Language(s) used**	TAF, METAR, SIGMET, Upper air winds Swedish/English
7.	**Charts and other information available for briefing or consultation**	SWC, WC, Nordic SIGWX Chart, Low level forecast
8.	**Supplementary equipment available for providing information**	-
9.	**ATS units provided with information**	KIRUNA TWR/RTC Stockholm
10.	**Additional information (limitation of service, etc.)**	Flight planning room available

ESNQ 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
03	033.65°	2502 x 45	PCN 75/F/B/X/T ASPH	674845.54N 0201913.10E GUND 98 ft	THR 1509 ft
21	213.69°	2502 x 45	PCN 75/F/B/X/T ASPH	674952.75N 0202111.59E GUND 97.0 ft	THR 1432.3 ft TDZ: 1443.9 ft

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	RESA dimensions (m)
1	7	8	9	10	11
03	See ESNQ AOC	-	150 x 180	2622 x 280	90 x 90
21	See ESNQ AOC	-	-	2622 x 280	90 x 90

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
03	-	NO	-
21	-	NO	Turn pad RWY 21 outside RWY dimensions PCN 55 F/B/X/T

ESNQ 2.13 DECLARED DISTANCES

RWY Designator		TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1		2	3	4	5	6
03		2502	2652	2502	2502	-
21		2502	2502	2502	2502	-
RWY Designator	**INTERSECTION**	**TORA (m)**	**TODA (m)**	**ASDA (m)**	**-**	**Remarks**
1		2	3	4	5	6
03	TWY B	1482	1632	1482	-	-
21	TWY A	1503	1503	1503	-	-

ESNQ 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
03	CALVERT CAT I 900 M LIH	Green	PAPI Left side/3.00° 55 ft	-	-	2502/60 m White Caution zone 600 m yellow LIH	Red	-
21	CALVERT CAT I 900 M LIH	Green	PAPI Left side/3.00° 60 ft	-	-	2502/60 m White Caution zone 600 m yellow LIH	Red	-
10 Remarks:	-							

ESNQ 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	**ABN/IBN location, characteristics and hours of operation**	-
2.	**LDI location and LGT**	Lighted windsock at strip 140 m NW ARP. Lighted windsock 425 m past THR 03 left side. Lighted windsock 405 m past THR 21 left side.
	Anemometer location and LGT	495 m past THR 03 and 395 m past THR 21, unlighted
3.	**TWY edge and centre line lighting**	Edge: A, B, Y CL: -
4.	**Secondary power supply/switch-over time**	Available/Less than 1 sec
5.	**Remarks**	-

ESNQ 2.16 HELICOPTER LANDING AREA

RWY 03/21 to be used

ESNQ 2.17 ATS AIRSPACE

1.	**Designation and lateral limits**	KIRUNA CTR	680054N 0202744E - 675754N 0204244E - 674625N 0203344E - 673725N 0201444E - 674025N 0195844E - 675154N 0200704E to point of origin.
2.	**Vertical limits**	KIRUNA CTR	3100 ft AMSL GND
3.	**Airspace classification**	C	
4.	**ATS unit call sign** **Language(s)**	KIRUNA TOWER Swedish/English	
5.	**Transition altitude**	6000 ft AMSL	
6.	**Hours of applicability**	CTR established during hours of TWR.	
7.	**Remarks**	-	

ESNQ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channels	Hours of operation	Remarks
1	2	3	4	5
TWR	KIRUNA TOWER	130.155	HO	PRIMARY LRG
		121.775	HO	De-icing
		122.100	HX	By directive from ATS
		121.500	HO	-

ESNQ 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/ MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service volume radius from GBAS reference point	Remarks
1	2	3	4	5	6	7	8
LOC 21 ILS CAT I (10° E 2020)	NQ	110.30 MHz	H24	674833.8N 0201852.4E	-	-	439 m beyond THR 03 LOC Class I/E/2
GP 21	-	335.00 MHz	H24	674942.1N 0202105.2E	-	-	Angle 3.00° RDH 58.5 ft 315 m past THR 21 left side. During winter angle may vary btn 3.00° and 3.25° due to snow. GP Class I/C/2
L 21	OP	360 kHz	H24	675314.9N 0202709.9E	-	-	Range 40 NM
DVOR/DME (10° E 2020)	KRA	115.20 MHz	H24	674909.3N 0202015.3E	1505 ft	-	DME Channel 99X
DME	NQ	110.30 MHz	H24	674942.0N 0202105.6E	1469 ft	-	DME Channel 40X

ESNQ 2.20 LOKALA FLYGPLATSFÖRESKRIFTER

1 Klarering för uttaxning

Alla luftfartyg ska begära start-up från ATC. Klarering lämnas på begäran före begäran om start-up. Klareringen utfärdas för gällande bana och tillämplig SID eller utpasseringspunkt ur TMA.

2 Föreskrifter vid taxning på TWY Y

Maximalt vingspann 36 m för taxning på TWY Y. Avisning av luftfartyg med större vingspann än 36 m ska kontakta TWR för särskilda instruktioner.

3 Föreskrifter för taxning och bogsering

Vid taxning eller bogsering ska luftfartygets antikollisions- och positionsljus (om sådana finns) vara påslagna.

4 Föreskrifter för markrörelser

ESNQ 2.20 LOCAL AERODROME REGULATIONS

1 Clearance at gate

All aircraft shall request start-up from ATC. ATC clearance will be delivered on request prior to start-up. Such clearance will be issued for RWY in use, appropriate SID or TMA exit point.

2 Taxi regulations on TWY Y

Maximum wingspan 36 m for taxiing on TWY Y. De-icing of aircraft with larger wingspan than 36 m shall contact TWR for special instructions.

3 Taxiing and towing regulations

When taxiing or towing, the aircraft’s anti-collision and position lights (if equipped) shall be turned on.

4 Ground movement procedures

Minsta möjliga motoreffekt ska användas vid taxning på platta Terminal, Hangar 2 och Arena. Försiktighet ska vidtas när man svänger runt på plattorna. Se upp för passagerare på plattorna.

Engines shall be operated at minimum power required when taxiing on Apron Terminal, Hangar 2 and Arena. Caution advised when turning around on aprons. Watch out for passengers on aprons.

ESNQ 2.21 BULLERREDUCERANDE FÖRFARANDEN

1. IFR som gör visuell inflygning, VA, ska i möjligaste mån undvika överflygning av Kiruna tätort.

ESNQ 2.21 NOISE ABATEMENT PROCEDURES

1. IFR making visual approach, VA, should if possible, avoid flying overhead Kiruna City.

ESNQ 2.22 FLYGPROCEDURER

1 Ankommande IFR-trafik inom Kiruna TMA/CTR

Flygvägar
Flygvägar för ankommande trafik är upprättade enligt ESNQ STARs.

2 Avgående IFR-trafik inom Kiruna TMA/CTR

Flygvägar
Flygvägar för avgående trafik är upprättade enligt ESNQ SIDs.

Vid RVR understigande 350 m är start inte tillåten.

ESNQ 2.22 FLIGHT PROCEDURES

1 Inbound IFR traffic within Kiruna TMA/CTR

Routes
Arrival routes are established in accordance with ESNQ STARs.

2 Outbound IFR traffic within Kiruna TMA/CTR

Routes
Departure routes are established in accordance with ESNQ SIDs.

When RVR is below 350 m TKOF is not permitted.

3 Startprocedurer, omnidirectional

3 Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
03	Climb straight ahead to MNM turning ALT 2800 ft. Continue climb to appropriate MSA.	-	-	-
21	Climb straight ahead to MNM turning ALT 2800 ft. Continue climb to appropriate MSA.	-	-	-

4 Avbrott i radioförbindelse

Luftfartyg skall följa de föreskrifter som anges i AIP ENR 1.3 mom 10. Under IMC gäller dessutom följande för ankommande luftfartyg.

4.1 Avbruten inflygning vid radiobortfall

Flygplan med RNAV-kapacitet:

4 Communication failure

Aircraft shall adhere to the procedures stipulated in AIP ENR 1.3 para 10. In addition, in IMC the relevant procedures below shall be applied by inbound aircraft.

4.1 Missed approach in case of communication failure

ACFT with RNAV capability:

RWY 03	Climb straight ahead to NQ532, turn right (Max IAS 230 kt) to KRA climbing to 4500 ft. At KRA turn left and proceed to NQ703 for a normal instrument approach.
RWY 21	Climb straight ahead to 4000 ft. Turn left (Max IAS 230 kt) to KRA climbing to 4500 ft. At KRA turn right and proceed to NQ529 for a normal instrument approach.

Flygplan utan RNAV-kapacitet:

Följ publicerad procedur för avbruten inflygning. Utför därefter normal instrumentinflygning till bana i användning.

ACFT without RNAV capability:

Follow published missed approach procedure. Then carry out a normal instrument approach to the runway-in-use.

5 Lågsiktsprocedurer (LVP) etablerade

LVP träder i kraft när bansynvidden (RVR) underskrider 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS med frasen ”low visibility procedures in operation”.

5 Low visibility procedures (LVP) established

LVP will be in force when runway visual range (RVR) falls below 550 m or when ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS with the phrase “low visibility procedures in operation”.

När LVP tillämpas tillåts endast fordon alternativt ett luftfartyg på manöverområdet.

När LVP tillämpas skall ACFT meddela när det lämnat banan och befinner sig på tilldelad uppställningsplats på plattan.

When LVP is applied vehicles or only one aircraft is allowed in the manoeuvring area.

When LVP is applied ACFT shall report RWY vacated at stand on apron.

6 VFR-flygning inom Kiruna TMA/CTR

Normala in- och utpasseringspunkter
Se ESNQ VAC.

Väntlägen
Se ESNQ VAC.

Avbrott i radioförbindelse
Se ESNQ VAC.

6 VFR flight within Kiruna TMA/CTR

Normal entry and exit points
See ESNQ VAC.

Holdings
See ESNQ VAC.

Communication failure
See ESNQ VAC.

ESNQ 2.23 TILLÄGGSINFORMATION

1. ATS-tjänst bedrivs från RTC Stockholm.

2. Signalstrålkastare placerad på R-TWR.

3. Beviljade undantag från krav i CS-ADR-DSN:

- RWY 03/21: första och sista fjärdedelen av rullbanan har längdlutning max 1.0%.
- Fasta belysta och obelysta hinder/terräng genomtränger följande hinderbegränsande ytor enligt förteckning:
  Inflygningsyta bana 03
  Start-stigytan bana 21
  Horisontella ytan
  Koniska ytan
- RCLL saknas för RWY 03/21. För starter understigande bansynvidd (RVR) 400 m krävs LVO-tillstånd från operatörens behöriga myndighet.

ESNQ 2.23 ADDITIONAL INFORMATION

1. ATS provided from RTC Stockholm.

2. Signalling lamp positioned at R-TWR.

3. Granted exemptions from requirements in CS-ADR-DSN:

- RWY 03/21: first and last quarter of runway has longitudinal slope of max 1.0%.
- Fixed lighted and not lighted obstacles/terrain penetrate the following obstacle limitation surfaces according to list:
  Approach surface RWY 03
  Take-off climb surface RWY 21
  Horizontal surface
  Conical surface
- RWY 03/21 is not equipped with RCLL. RVR below 400 m TKOF only to be conducted with LVO approved by the operator’s competent authority.

ESNQ 2.24 FLYGKARTOR AVSEENDE EN FLYGPLATS

ESNQ 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

Charts	*Pages*
Aerodrome Chart - ICAO	AD 2 ESNQ 2 - 1
AOC - ICAO Type A RWY 03/21	AD 2 ESNQ 3 - 1
Area Chart - ICAO KIRUNA TMA	AD 2 ESNQ 5 - 1
STAR - ICAO RNP STAR RWY 03	AD 2 ESNQ 6 - 1
STAR - ICAO RNP STAR RWY 21	AD 2 ESNQ 6 - 3
SID/STAR - ICAO RWY 03	AD 2 ESNQ 6 - 5
SID/STAR - ICAO RWY 21	AD 2 ESNQ 6 - 7
ATC Surveillance Minimum Altitude Chart - ICAO	AD 2 ESNQ 7 - 1
IAC - ICAO ILS z or LOC z RWY 21	AD 2 ESNQ 8 - 1
IAC - ICAO ILS y or LOC y RWY 21	AD 2 ESNQ 8 - 2
IAC - ICAO VOR RWY 21	AD 2 ESNQ 8 - 3
IAC - ICAO NDB z RWY 21	AD 2 ESNQ 8 - 4
IAC - ICAO NDB y RWY 21	AD 2 ESNQ 8 - 5
IAC - ICAO VOR z RWY 03	AD 2 ESNQ 8 - 7
IAC - ICAO VOR y RWY 03	AD 2 ESNQ 8 - 8

Charts	*Pages*
IAC - ICAO RNP RWY 03	AD 2 ESNQ 8 - 9
IAC - ICAO RNP RWY 21	AD 2 ESNQ 8 - 13
VAC - ICAO	AD 2 ESNQ 9 - 1

LIST OF WAYPOINTS AND SIGNIFICANT POINTS

See ESNQ KIRUNA 4

ESNQ 2.25 GENOMTRÄNGANDE AV YTAN FÖR VISUELLA SEGMENTET (VSS)

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ESNQ 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

-