#### STANDARD DEPARTURE CHART - INSTRUMENT

#### RJSS / SENDAI RNAV SID and TRANSITION DERBY THREE DEPARTURE / NIIGATA TRANSITION RNAV 1 Note 1) DME/DME/IRU or GNSS required. Critical DME %The aircraft equipped with only DME/DME/IRU RWY09 SDE: 8.0NM to ANEMO - 3.0NM to ANEMO must be able to update its position without delay 5.0NM to EBOSI - EBOSI at the starting point of take-off roll. IXE: 8.0NM to ANEMO - 3.0NM to ANEMO 2) RADAR service required. HPE: 5.0NM to EBOSI - 2.0NM to EBOSI DME GAP RWY27 SDE: 5.0NM to EBOSI - EBOSI HPE: 5.0NM to EBOSI - EBOSI RWY09 09DER - 8.0NM to ANEMO NIIGATA TRANSITION 3.0NM to ANEMO - 5.0NM to EBOSI RWY27 27DER - 5.0NM to EBOSI SDE: DERBY - 58.0NM to GTC NIIGATA TRANSITION YTE: DERBY - 18.0NM to GTC 4.0NM to GTC - GTC YSE: 18.0NM to GTC - 4.0NM to GTC GTC: 40.0NM to GTC - 18.0NM to GTC Inappropriate Navaids 14.0NM to GTC - 4.0NM to GTC See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. VOR/DMF VAR 8°W (2014) **SENDAI** SDE 116.3 CH-110X 38°08′19″N/140°55′17″E 100FT 500 090 270 SS901 SS701 380854.6N 1405935.6E 380758.5N 1405031.7E NIIGATA TRANSITION **VORTAC** NIIGATA 115.5 GTC CH-102X Ξ: 37°57′30″N/139°06′54″E DERBY THREE DEPARTURE 0FT 63.9 276 -276 17.6 **EBOSI** 284 380028.7N 1403735.8E **NIIGATA DERBY ANEMO** (GTC) 380012.7N 375833 5N 1402748.4E 375729 9N 1405950.4E 1390653.6F 10000 DERBY THREE DEPARTURE RWY09: Climb on HDG090° at or above 500FT, direct to SS901, turn right direct to ANEMO, to EBOSI, to DERBY at or above 10000FT. RWY27: Climb on HDG270° at or above 500FT, direct to SS701, turn left direct to EBOSI, to DERBY at or above 10000FT. NOTE RWY09: 5.0% climb gradient required up to 500FT. OBST ALT 62FT located at 0.2NM 102° FM end of RWY09. RWY27: 5.9% climb gradient required up to 1300FT. OBST ALT 1181FT located at 4.6NM 284° FM end of RWY27.

From DERBY at or above 10000FT, to GTC.

NIIGATA TRANSITION

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## RJSS / SENDAI

## **RNAV SID and TRANSITION**

## DERBY THREE DEPARTURE

## RWY09

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	090 (082.5)	-7.8	_	1	+500	_	_	RNAV1
002	DF	SS901	Υ	_	-7.8	_	_	_	_	_	RNAV1
003	DF	ANEMO	_	-	-7.8	_	R		_	_	RNAV1
004	TF	EBOSI	_	284 (276.4)	-7.8	17.6	1		_	_	RNAV1
005	TF	DERBY	_	276 (268.1)	-7.8	7.7	_	+10000	_	_	RNAV1

## RWY27

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	270 (262.5)	-7.8	_		+500	_	_	RNAV1
002	DF	SS701	Υ	_	-7.8	_	-	_	_	_	RNAV1
003	DF	EBOSI	_		-7.8	_	L	_	_	_	RNAV1
004	TF	DERBY	_	276 (268.1)	-7.8	7.7		+10000	_	_	RNAV1

# NIIGATA TRANSITION

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	IF	DERBY	_	_	-7.8	_	_	+10000	_	_	RNAV1
002	TF	GTC	_	276 (268.0)	-7.8	63.9	_	_	_	_	RNAV1