

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

10210

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude , and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME	TAKE-OFF MINIMUMS	NAME	TAKE-OFF MINIMUMS
ADAK ISLAND, AK		ADAK (ADK) (CON'T)	
ADAK (ADK)		NOTE: Rwy 5 , Rising terrain beginning 39' from departure end of runway, 470' left of centerline, up to 50' MSL. Rising terrain beginning 68' from departure end of runway, 244' right of centerline, up to 23' MSL. Rwy 23 , Rising terrain beginning 17' from departure end of runway, 356' right of centerline, up to 283' MSL. Bush 1.8NM from departure end of runway, 1470' right of centerline, up to 10' AGL/507' MSL. Bush 2 NM from departure end of runway, 20' left of centerline, up to 10' AGL/504' MSL. Bush 3766' from departure end of runway, 142' right of centerline, 10' AGL/310' MSL.	
AMDT 2 08213 (FAA)			
TAKE-OFF MINIMUMS: Rwy 5 , Std. w/min. climb of 370 feet per NM to 4400, or 4400-3 for climb in visual conditions. Rwy 18 , NA-obstacles. Rwy 23 , Std. w/min. climb of 622 feet per NM to 4600, or 4400-3 for climb in visual conditions. Rwy 36 , NA-obstacles.		AKHIOK, AK	
DEPARTURE PROCEDURE: Rwy 5 , Climb via 054° bearing from ADK NDB/DME to 4400, then climbing right turn to 5600 direct ADK NDB/DME. Continue climb in ADK NDB/DME holding pattern (hold, NE, RT, 234° inbound) to cross ADK NDB/DME at or above MEA/MCA for route of flight, or for climb in visual conditions: Cross ADK NDB/DME at or above 5600 before proceeding on course. Rwy 23 , Climb to 4600 direct ADK NDB/DME and via 234° bearing from ADK NDB/DME then climbing left turn to 5600 direct ADK NDB/DME, continue climb in ADK NDB/DME holding pattern (hold, NE, RT, 234° inbound) to cross ADK NDB/DME at or above MEA/MCA for route of flight, or for climb in visual conditions: cross ADK NDB/DME at or above 5600 before proceeding on course.		AKHIOK (AKK)	
		ORIG 07130 (FAA)	
		TAKE-OFF MINIMUMS: Rwy 22 , N/A-obstacles.	
		DEPARTURE PROCEDURE: Rwy 4 , use JOGMO DEPARTURE.	
		AKIAK, AK	
		AKIAK (AKI)	
		ORIG 09239 (FAA)	
		DEPARTURE PROCEDURE: Use AKIAK DEPARTURE.	

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ALLAKAKET, AK

ALLAKAKET (6A8)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ min. climb of 240' to 5300, or 1200-2¼ for climb in visual conditions. **Rwy 23**, std. w/ min. climb of 220' to 5300, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 052° to 3500 before proceeding on course. **Rwy 23**, climb via heading 232° to 2400 before proceeding on course. **Rwys 5, 23**, for climb in visual conditions:

Cross Allakaket Airport or above 1500 before proceeding on course.

NOTE: **Rwy 5**, tree 799' from DER, 606' right of centerline, 40' AGL/532' MSL. Tree 1297' from DER, 664' right of centerline 40' AGL/534' MSL. Tree 2007' from DER, 342' right of centerline 40' AGL/498' MSL.

ALLEN AAF (PABI)

DELTA JUNCTION/FORT GREELY, AK . 07354

DEPARTURE PROCEDURE: **Rwys 19, 25, 28**

climbing right turn via heading 332° and BIG VORTAC R-287 to 3500, thence... **Rwys 1, 7, 10**, climbing left turn via heading 242° and BIG VORTAC R-287 to 3500, thence...

...for V444 westbound departures continue on course, all others turn right direct BIG VORTAC or DJN NDB and proceed via airway radials/bearings on course.

NOTE: **Rwy 1**, multiple trees and fence beginning 46' from DER, 326' right of centerline, up to 59' AGL/1284' MSL. **Rwy 7**, multiple trees, fence, and REILS beginning 32' from DER, left and right of centerline, up to 67' AGL/1329' MSL. **Rwy 10**, multiple trees, fence, and REILS beginning 41' from DER, left and right of centerline, up to 70' AGL/1331' MSL. **Rwy 19**, multiple trees and power poles beginning 415' from DER, left and right of centerline, up to 46' AGL/1337' MSL. **Rwy 25**, multiple trees and fence beginning 86' from DER, left and right of centerline, up to 45' AGL/1317' MSL. **Rwy 28**, multiple trees and REILS beginning 4' from DER, left and right of centerline, up to 47' AGL/1301' MSL.

AMBLER, AK

AMBLER (AFM)

ORIG 82077 (FAA)

DEPARTURE PROCEDURE: **Rwy 36**, turn right.

Rwy 18, turn left, climb SE bound on 150° bearing from AMF NDB to 2000, then climb on course.

ANAKTUVUK PASS, AK

ANAKTUVUK PASS (AKP)

AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 2**, Use AKUMY DEPARTURE (RNAV).

ANCHORAGE, AK

TED STEVENS ANCHORAGE INTL (ANC)

AMDT 5 01305 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7L**, 3300-1, or std. with a minimum climb of 320' per NM to 3400'. **Rwy 7R**, 2800-1 or std. with a minimum climb of 290' per NM to 2900.

DEPARTURE PROCEDURE: Departures 020° CW to 160°. **Rwys 7L, 7R**, climb straight ahead to 2000 or ANC VOR/DME 9 DME/BGQ R-152, whichever comes first, then turn right to heading 190° to intercept ENA R-025. Continue in a climb to 5000, prior to proceeding on course. **Rwy 14**, turn right to 200°, climb to 2000, intercept the ENA R-025, climb to 5000 prior to proceeding on course. **Rwys 25L, 25R, 32**, climb direct ANC VOR/DME. Cross ANC VOR/DME at or above 4000, continue on course. If required, climb in a holding pattern, (SW, right turns, 053° inbound). Departures 161° CW to 270°. **Rwys 7L, 7R, 14**, departure as above to 3000 prior to proceeding on course. **Rwys 25L, 25R, 32**, climb on course. Departures 271° CW to 019°. **Rwys 7L, 7R**, climb to 2000, or the ANC 11 DME, left turn, climb inbound on the BGQ R-145 to 3000, then climb on course. **Rwy 14**, turn right, climb on course. **Rwys 25L, 25R, 32**, climb on runway heading to 2000, then climb on course.

MERRILL FIELD (MRI)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA. **Rwy 25**, 400-1.**Rwy 16**, 500-1.

DEPARTURE PROCEDURE: **Rwy 34**, climb on runway heading to 500. **Rwy 7**, turn right after take-off, N bound (360°) through SE bound (170°) IFR departures, climb direct to Anchorage VORTAC/ Campbell Lake NDB to cross VORTAC/Campbell Lake NDB at or above MCA before proceeding on course.

ANIAK, AK

ANIAK (ANI)

AMDT 2 01081 (FAA)

DEPARTURE PROCEDURE: **Rwy 10**, climb runway heading to 1800 before turning on course. **Rwy 28**, climb runway heading to 1300 before turning on course.

ANVIK, AK

ANVIK (ANV)

ORIG 08269 (FAA)

NOTE: **Rwy 17**, multiple trees beginning 56' from departure end of runway, 30' left of centerline, up to 50' AGL/436' MSL. Multiple trees beginning 87' from departure end of runway, 38' right of centerline, up to 50' AGL/349' MSL. **Rwy 35**, Multiple trees beginning 93' from departure end of runway, 129' left of centerline, up to 50' AGL/349' MSL. Multiple trees beginning 8' from departure end of runway, 10' right of centerline, up to 50' AGL/366' MSL.

ARCTIC VILLAGE, AK

ARCTIC VILLAGE (ARC)

ORIG 06047 (FAA)

DEPARTURE PROCEDURE: Use TUVVO DEPARTURE.

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ATKA, AK

ATKA (AKA)

AMDT 1 10210 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, use HIMKIDEPARTURE. **Rwy 34**, use INOTY DEPARTURE.

ATQASUK, AK

ATQASUK EDWARD BURNELL SR MEMORIAL (ATK)

ORIG 10210 (FAA)

NOTE: **Rwy 6**, trees beginning 11' from DER, 433' right of centerline up to 15' AGL/114' MSL. **Rwy 24**, trees beginning 6' from DER, 449' left of centerline up to 15' AGL/114' MSL.

BARROW, AK

WILEY POST-WILL ROGERS MEMORIAL (BRW)

ORIG 10210 (FAA)

NOTE: **Rwy 25**, road 139' from DER, 464' left of centerline, 17' AGL/63' MSL. Road 231' from DER, 547' right of centerline, 17' AGL/60' MSL. Pole 468' from DER, 551' right of centerline, 68' AGL/72' MSL.

BARTER ISLAND, AK

BARTER ISLAND LRRS (BTI)

ORIG 09351 (FAA)

NOTE: **Rwy 7**, ship 26' from DER, 354' right of centerline, 50' MSL. **Rwy 25**, ship 215' from DER, 157' left of centerline, 50' MSL.

BEAVER, AK

BEAVER (WBQ)

ORIG 09239 (FAA)

NOTE: **Rwy 5**, multiple trees beginning 229' from DER, 262' right of centerline, up to 60' AGL/419' MSL. Multiple trees beginning 1263' from DER, 373' right of centerline, up to 60' AGL/419' MSL. Vehicle on road 392' from DER, 9' right of centerline, 10' AGL/369' MSL. **Rwy 23**, multiple trees beginning 1259' from DER, 374' right of centerline, up to 60' AGL/419' MSL. Multiple trees beginning 1277' from DER, 366' left of centerline, up to 60' AGL/419' MSL.

BETHEL, AK

BETHEL (BET)

AMDT 3 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, 1¼ or std. w/ min. climb of 245' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 1L**, tree 6' from departure end of runway, 218' right of centerline, 35' AGL/105' MSL. Tree 210' from departure end of runway, 251' left of centerline, 35' AGL/111' MSL. **Rwy 1R**, tree 125' from departure end of runway, 452' left of centerline, 35' AGL/125' MSL. **Rwy 12**, multiple trees beginning 508' from departure end of runway, 129' left of centerline, up to 35' AGL/144' MSL. **Rwy 19L**, multiple trees beginning 21' from departure end of runway, 175' right of centerline, up to 35' AGL/130' MSL. **Rwy 19R**, multiple trees beginning 21' from departure end of runway, 313' left of centerline, up to 35' AGL/130' MSL. **Rwy 30**, tree 95' from departure end of runway, 140' right of centerline, 35' AGL/128' MSL. Multiple towers 5771' from departure end of runway, 65' right of centerline, up to 147' AGL/297' MSL.

BETTLES, AK

BETTLES (BTT)

AMDT 2 07242 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, std. w/ min. climb of 400' per NM to 2500 or 3100-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 1**, climb heading 012° to 2500 then climbing left turn to 3600 direct BTT VOR/DME. Climb in BTT VOR/DME holding pattern (hold south, left turn, 338° inbound) to cross BTT VOR/DME at or above 3600 or as directed by ATC. For climb in visual conditions: cross Bettles VOR/DME at or above 3600 MSL before proceeding on course. **Rwy 19**, climb heading 192° to 1800 then climbing left turn to 3600 direct BTT VOR/DME. Climb in BTT VOR/DME holding pattern (hold south, left turn, 338° inbound) to cross BTT VOR/DME at or above 3600 or as directed by ATC.

NOTE: **Rwy 1**, multiple trees beginning 450' from departure end of runway, 267' right of centerline, up to 47' AGL/691' MSL. Multiple trees beginning 80' from departure end of runway, 148' left of centerline, up to 16' AGL/664' MSL. Antenna on building 395' from departure end of runway, 161' right of centerline, 14' AGL/658' MSL, DME antenna 412' from departure end of runway, 205' right of centerline, 12' AGL/656' MSL. **Rwy 19**, multiple trees beginning 140' from departure end of runway, 94' right of centerline up to 38' AGL/670' MSL. Multiple trees beginning 286' from departure end of runway, 152' left of centerline, up to 26' AGL/658' MSL.

BIG LAKE, AK

BIG LAKE (BGQ)

AMDT 1 06159 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 w/ a min. climb of 310' per NM to 700, or 900-2½ for climb in visual conditions. **Rwy 25**, 400-2 or std. w/ a min climb of 300' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn direct to BGQ VORTAC, thence... or for climb in visual conditions: cross Big Lake Airport at or above 900 then proceed direct BGQ VORTAC, thence... **Rwy 25**, climbing right turn direct to BGQ VORTAC, thence... climb in holding pattern (hold south, left turn, 350° inbound) to MCA or MEA for route of flight.

NOTE: **Rwy 7**, bushes beginning 33' from departure end of runway, 335' left of centerline, up to 10' AGL/259' MSL. Multiple trees beginning 1150' from departure end of runway, 310' left of centerline, up to 85' AGL/434' MSL. Multiple trees beginning 2412' from departure end of runway, 594' right of centerline, up to 85' AGL/302' MSL. Terrain beginning 1.7 NM from departure end of runway, 470' right of centerline, 549' MSL.

Rwy 25, multiple trees beginning 33' from departure end of runway, 129' left of centerline, up to 85' AGL/495' MSL. Multiple trees beginning 960' from departure end of runway, 185' right of centerline, up to 85' AGL/281' MSL. Terrain beginning 1.7 NM from departure end of runway, 1422' left of centerline, 511' MSL.

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BUCKLAND, AK

BUCKLAND (BVK)
AMDT 1 07186 (FAA)

TAKE-OFF MINIMUMS: **Rwy 11**, std. w/ min. climb of 325' per NM to 1800, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing left turn to 3000 heading 280°, 314° bearing from BVK NDB and OTZ R-133 to OTZ VOR/DME, before proceeding on course, or for climb in visual conditions: cross Buckland Airport at or above 1800 MSL before proceeding on course. **Rwy 29**, climbing right turn to 3000 via BVK 314° bearing and OTZ R-133 to OTZ VOR/DME, before proceeding on course.

NOTE: **Rwy 11**, tower 1494' from departure end of runway, 112' right of centerline, 45' AGL/120' MSL. Trees 800' from departure end of runway, left and right of centerline, 50' AGL/99' MSL, tree 6001' from departure end of runway, 1169' left of centerline, 50' AGL/199' MSL.

CAPE LISBURNE LRRS (PALU)

CAPE LISBURNE, AK AMDT 3, 09015

Diverse departures not authorized.

DEPARTURE PROCEDURE: **Rwy 8**, use CAPE LISBURNE DEPARTURE. **Rwy 26**, NA.

TAKE-OFF OBSTACLES: **Rwy 8**, Rising terrain to 645' MSL, from DER out to 1.4 NM, from 197' to 992' right of centerline increasing to SE. Buildings and barge area to 80' MSL, 8' inward of DER, 56' to 84' left of centerline and 486' right of centerline. Buildings to 174' MSL, 2593' beyond DER, from 129' to 625' right of centerline.

CAPE NEWENHAM LRRS (PAEH)

CAPE NEWENHAM, AK AMDT 2, 09015

Diverse departures not authorized.

DEPARTURE PROCEDURE: **Rwy 14**, NA. **Rwy 32**, use CAPE NEWENHAM DEPARTURE.

TAKE-OFF OBSTACLES: **Rwy 32**, terrain, 271' MSL, 500' right of centerline. Terrain, 249' MSL, 209' from DER, 390' right of centerline.

CAPE ROMANZOF LRRS (PACZ)

CAPE ROMANZOF, AK AMDT 3, 09015

Diverse departures not authorized.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 20**, use CAPE ROMANZOF DEPARTURE.

TAKE-OFF OBSTACLES: **Rwy 20**: DME antenna, 455' MSL, 38' prior to DER, 252' left of centerline. Terrain, 464' MSL, 47' from DER, 512' left of centerline. Terrain, 462' MSL, 237' from DER, 563' left of centerline. Terrain, 437' MSL, 379' from DER, 507' left of centerline. Terrain, 423' MSL, 24' from DER, 310' left of centerline.

CHALKYITSIK, AK

CHALKYITSIK (CIK)
ORIG 09239 (FAA)

NOTE: **Rwy 3**, tree 330' from DER, 355' left of centerline, 15' AGL/564' MSL. Tree 1291' from DER, 191' right of centerline 15' AGL/564' MSL. **Rwy 21**, tree 237' from DER, 92' left of centerline, 15' AGL/564' MSL. Tree 692' from DER, 346' left of centerline, 15' AGL/564' MSL. Tree 909' from DER, 472' right of centerline, 15' AGL/564' MSL.

CHEVAK, AK

CHEVAK (VAK)
ORIG 07298 (FAA)

NOTE: **Rwy 2**, vegetation beginning 76' from departure end of runway, 210' left of centerline, up to 15' AGL/89' MSL. **Rwy 20**, vegetation beginning 71' from departure end of runway, 231' left of centerline, up to 15' AGL/89' MSL.

CHUATHBALUK, AK

CHUATHBALUK (9A3)
ORIG 09295 (FAA)

DEPARTURE PROCEDURE: see EBSIH DEPARTURE.

CLARKS POINT, AK

CLARKS POINT (CLP)
ORIG 10042 (FAA)

NOTE: **Rwy 18**, trees and terrain beginning 50' from DER, 283' left of centerline, up to 35' AGL/201' MSL. **Rwy 36**, trees and terrain beginning 12' from DER, 168' left and right of centerline, up to 35' AGL/159' MSL.

COLD BAY, AK

COLD BAY (CDB)
AMDT 6 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 900-2 1/2 or std. w/ min. climb of 400' per NM to 1200.

DEPARTURE PROCEDURE: **Rwys 8, 14**, Climbing left turn direct ELF NDB or CDB VORTAC, thence...

Rwy 26, Climbing right turn direct ELF NDB or CDB VORTAC, thence.... **Rwy 32**, Climb direct to ELF NBD or CDB VORTAC, thence...

...Climb in ELF NDB holding pattern (NW, LT, 144° inbound) or CDB VORTAC holding pattern (NW, LT, 145° inbound) to MEA for direction of flight.

NOTE: **Rwy 14**, Antenna on building, 480' from departure end of runway, 237' left of centerline, 17' AGL/106' MSL. Ground 1' from departure end of runway, 300' left of centerline, 3' AGL/92' MSL. **Rwy 26**, Ground, 50' from departure end of runway, 297' right of centerline, 8' AGL/ 93' MSL. Road, 311' from departure end of runway, 259' left of centerline, 14' AGL/99' MSL. Road, 372' from departure end of runway, 7' right of centerline, 12' AGL/ 97' MSL.

COLDFOOT, AK

COLDFOOT (CXF)
ORIG 05244 (FAA)

DEPARTURE PROCEDURE: **Rwy 19**, Use BETTLES DEPARTURE.

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CORDOVA, AK

MERLE K. (MUDHOLE) SMITH (CDV)
AMDT 6 05188 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA- ATC. **Rwy 27**, std., do not exceed 210 knots until established on 200° bearing from GCR NDB. **Rwy 34**, NA- obstacles and ATC.

NOTE: **Rwy 9**, DME required.

NOTE: **Rwy 27**, ADF required.

DEPARTURE PROCEDURE: **Rwy 9**, climb to assigned altitude east on I-CDV course to FORAT/I-CDV 44.6 DME before proceeding on course. **Rwy 27**, climbing left turn via 200° bearing from GCR NDB to EYAKS Int, thence...

...climb in EYAKS Int holding pattern (S, RT, 020° inbound) to 5000 before proceeding on course.

NOTE: **Rwy 9**, multiple trees and bushes beginning 149' from departure end of runway, 150' right of centerline, up to 27' AGL/119' MSL. Multiple trees, bushes, and poles beginning 197' from departure end of runway, 106' left of centerline, up to 27' AGL/130' MSL. **Rwy 27**, multiple poles and bushes beginning 162' from departure end of runway, 261' right of centerline, up to 27' AGL/53' MSL. Multiple trees beginning 69' from departure end of runway, 431' left of centerline, up to 27' AGL/48' MSL.

DEERING, AK

DEERING (DEE)
AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 11**, std. w/ min. climb of 360' per NM to 800, or 1100-2 ½ for climb in visual conditions. **Rwy 29**, 300-1½ or std. w/ min. climb of 270' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 11**, for climb in visual conditions, cross Deering Airport at or above 1000 before proceeding on course. **Rwy 20**, climb heading 204° to 600 before turning left.

NOTE: **Rwy 2**, tree 82' from DER, 6' right of centerline, 30' AGL/55' MSL. Trees beginning 803' from DER, left and right of centerline, up to 30' AGL/55' MSL. **Rwy 11**, trees beginning 119' from DER, left and right of centerline, up to 30' AGL/55' MSL. Tree 4592' from DER, 796' left of centerline, 30' AGL/179' MSL. Trees beginning 5715' from DER, 110' left of centerline, up to 30' AGL/329' MSL. Trees beginning 1.3 NM from DER, 259' right of centerline, up to 30' AGL/429' MSL. **Rwy 20**, trees beginning 151' from DER, left and right of centerline, up to 30' AGL/79' MSL.

DILLINGHAM, AK

DILLINGHAM (DLG)
AMDT 3 09015 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, climb on heading between 023° CW to 191° from departure end of runway or minimum climb of 265' per NM to 3100' for all other courses. **Rwy 19**, climb heading 191° to 800' before turning right.

NOTE: **Rwy 1**, vehicle on road 191' from departure end of runway, left and right, up to 15' AGL/75' MSL. Multiple trees, poles, fence and antenna 833' from departure end of runway, 222' right of centerline, up to 58' AGL/165' MSL. Multiple trees and poles beginning 1607' from departure end of runway, 222' left of centerline, up to 58' AGL/189' MSL. **Rwy 19**, building and multiple trees beginning 177' from departure end of runway, 191' right of centerline, up to 49' AGL/118' MSL. Multiple trees, antenna and poles beginning 129' from departure end of runway, 234' left of centerline, up to 38' AGL/114' MSL.

EGEGIK, AK

EGEGIK (EII)
ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA- Environmental.

EIELSON AFB (PAEI)

FAIRBANKS, AK 07242

DEPARTURE PROCEDURE: Comply with assigned SID, or: **Rwy 32**, standard with Climb Gradient of 250 ft/NM to 3800. **Rwy 14**, standard with Climb Gradient of 280 ft/NM to 3500.

VCOA DEPARTURE: Climb in Visual Conditions (Minimum Ceiling 2000', Minimum Visibility 3.00 SM) within 6.66 NM of PAEI airport, cross PAEI airport at or above 2400' MSL before proceeding on course. Max Airspeed 250 KIAS.

NOTE: **Rwy 32**, 85' AGL trees 2700' from departure end of runway, 1200' right of centerline. 70' AGL trees 3300' from departure end of runway, 1000' left of centerline. 85' AGL trees 1600' from departure end of runway, 850' left of centerline.

ELIM, AK

ELIM (ELI)
ORIG 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 19**, use ELIM (RNAV) DEPARTURE.

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ELMENDORF AFB (PAED)

ANCHORAGE, AK 10098

TAKE-OFF MINIMUMS: **Rwy 16**, NA. Rwy 34, 200'-½, or standard with minimum climb rate of 210' per NM to 700.

TEXTUAL DEPARTURE: **Rwy 6**, south through northbound (239° CW 341°) climb on course, maintain FL200 or ATC assigned altitude. North through southbound (342° CW 238°) departures not authorized.

Rwy 24, south through northbound (259° CW 009°) climb on course, maintain FL200 or ATC assigned altitude. North through southbound (010° CW 258°) departures not authorized. **Rwy 34**, south through northbound (180° CW 319°), cross departure end of runway at or above 10' AGL/222' MSL and climb on course, maintain FL200 or ATC assigned altitude. North through southbound (320° CW 179°) departures not authorized.

NOTE: **Rwy 6**, 210' MSL Terrain, 15' to 325' from DER, 83' to 500' left of centerline. 259' MSL road, 1578' to 2215' from DER, 290' to 795' left of centerline. 255' MSL road, 1445' from DER, 383' right of centerline. **Rwy 24**, 195' MSL terrain, 50' to 260' from DER, 500' to 570' right of centerline. 241' MSL terrain, 2210' to 2240' from DER, 1000' to 1100' right of centerline. **Rwy 34**, 305' MSL terrain and fence line, 2215' from DER, 1100' right of centerline. **VCOA Departure Rwy 6**: Climb in visual conditions (Minimum Ceiling 5700', Minimum Visibility 3.0 SM) within 6.8 NM of PAED airport. Cross PAED airport at or above 5800' MSL before proceeding on course. Max airspeed 250 KIAS. **VCOA Departure Rwy 24**: Climb in visual conditions (Minimum Ceiling 5800', Minimum Visibility 3.0 SM) within 7.4 NM of PAED airport. Cross PAED airport at or above 5900' MSL before proceeding on course. Max airspeed 250 KIAS.

VCOA Departure Rwy 34: Climb in visual conditions (Minimum Ceiling 5700', Minimum Visibility 3.0 SM) within 7.0 NM of PAED airport. Cross PAED airport at or above 5800' MSL before proceeding on course. Max airspeed 250 KIAS.

EMMONAK, AK

EMMONAK (ENM)
ORIG 07074 (FAA)

NOTE: **Rwy 34**, bush 11' from departure end of runway, 146' left of centerline, 5' AGL/17' MSL.

FAIRBANKS, AK

FAIRBANKS INTL (FAI)

AMDT 5 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwys 2L, 2R**, std. w/ min. climb of 230' per NM to 2600.

DEPARTURE PROCEDURE: **Rwys 2L, 2R**, climb heading 032° to 2600 before proceeding on course.

Rwys 20L, 20R, climb heading 197° to 2600 before proceeding on course.

NOTE: **Rwy 2L**, terrain 11' from DER, 166' left of centerline 440' MSL. Building 331' from DER, 252' left of centerline, 13' AGL/448' MSL. **Rwy 2R**, tank 32' from DER, 359' left of centerline 6' AGL/439' MSL. Terrain 52' from DER, 389' left of centerline, 440' MSL. Building 188' from DER, 450' left of centerline, 9' AGL/442' MSL. Aircraft 211' from DER, 456' right of centerline, 8' AGL/441' MSL. Terrain beginning 132' from DER, 208' right of centerline, up to 447' MSL. Tree 502' from DER, 369' left of centerline, 15' AGL/448' MSL. **Rwy 20L**, terrain 9' from DER, 130' left of centerline, 437' MSL. Terrain 89' from DER, 467' right of centerline, 443' MSL. Multiple trees beginning 335' from DER, 507' right of centerline up to 68' AGL/521' MSL. Multiple trees beginning 870' from DER, 188' left of centerline, up to 60' AGL/491' MSL. **Rwy 20R**, building 7' from DER, 425' right of centerline, 22' AGL/447' MSL. Terrain beginning 194' from DER, 122' left of centerline, up to 453' MSL. Terrain beginning 34' from DER, 66' right of centerline, up to 457' MSL.

FORT YUKON, AK

FORT YUKON (FYU)

AMDT 1 07130 (FAA)

NOTE: **Rwy 4**, multiple trees beginning 500' from departure end of runway, 130' right of centerline, up to 30' AGL/479' MSL. **Rwy 22**, multiple trees beginning at departure end of runway, 204' left of centerline, up to 30' AGL/501' MSL, vehicle on road at departure end of runway, 188' left of centerline, 15' AGL/464' MSL.

GALENA, AK

EDWARD G. PITKA, SR (GAL)

ORIG 10098 (FAA)

NOTE: **Rwy 7**, trees beginning 8' from DER, 313' right of centerline, up to 50' AGL/192' MSL. Trees 1728' from DER, 947' left of centerline, up to 50' AGL/211' MSL. Vehicles on levee 175' from DER, left and right of centerline, up to 17' AGL/176' MSL. **Rwy 25**, trees beginning 55' from DER, left and right of centerline, up to 50' AGL/187' MSL. Vehicles on levee 280' from DER, 183' left of centerline up to 17' AGL/177' MSL. Pole 370' from DER, 139' left of centerline, 21' AGL/168' MSL. Antennas on buildings 360' from DER, 260' right of centerline, up to 19' AGL/166' MSL. Building 160' from DER, 160' left of centerline, 15' AGL/160' MSL. Obstruction light on levee 421' from DER, 91' left of centerline 18' AGL/165' MSL. Localizer antenna 422' from DER, on centerline 18' AGL/165' MSL.

GAMBELL, AK

GAMBELL (GAM)

AMDT 1 90347 (FAA)

DEPARTURE PROCEDURE: **Rwy 16, 34**, climb on runway heading to 1000 before proceeding on course.

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GOLOVIN, AK

GOLOVIN (GLV)
ORIG 05356 (FAA)

DEPARTURE PROCEDURE: Use NOME
DEPARTURE.

GULKANA, AK

GULKANA (GKN)
AMDT 7 07018 (FAA)

DEPARTURE PROCEDURE: **Rwy 15**, climb via heading 148° to 2800, then climbing left turn direct GKN VOR/DME or GLA NDB, thence. . . **Rwy 33**, climb via heading 328° to 2800, then climbing left turn direct GKN VOR/DME or GLA NDB, thence. . .

. . . climb in holding pattern (GKN VOR/DME hold NW, right turn, 143° inbound), (GLA NDB hold NW, right turn, 143° inbound) to cross GKN VOR/DME at or above 4000 or GLA NDB at or above 10000.

NOTE: **Rwy 15**, multiple trees beginning 1175' from departure end of runway, 709' right of centerline, up to 40' AGL/1599' MSL. Multiple trees beginning 1194' from departure end of runway, 668' left of centerline up to 40' AGL/1599' MSL. **Rwy 33**, multiple trees and vehicles beginning 478' from departure end of runway, 514' left of centerline up to 40' AGL/1639' MSL. Multiple trees beginning 746' from departure end of runway, 631' right of centerline up to 40' AGL/1639' MSL.

GUSTAVUS, AK

GUSTAVUS (GST)
AMDT 2 03359 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, 1500-2½ for climb in visual conditions. **Rwy 11**, std. with a min. climb of 260' per NM to 1200 or 1500-2½ for climb in visual conditions. **Rwy 20**, std. with a min. climb of 290' per NM to 1400 or 1500-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2**, climb in visual conditions to cross departure end of Runway 11 eastbound at or above 1500, then climb to 5500 via SSR VORTAC R-288 (287° bearing from EEF NDB) to SSR VORTAC/EEF NDB. **Rwy 11**, climb via SSR VORTAC R-288 to SSR VORTAC, or via 287° bearing from EEF NDB to EEF NDB, or climb in visual conditions to cross departure end of Runway 11 eastbound at or above 1500, then climb to 5500 via SSR VORTAC R-288 (287° bearing from EEF NDB) to SSR VORTAC/EEF NDB.

Rwy 20, left turn via 155° heading and SSR VORTAC R-280 (282° bearing from EEF NDB) inbound to SSR VORTAC/EEF NDB, or climb in visual conditions to cross departure end of Runway 11 eastbound at or above 1500, then climb to 5500 via SSR VORTAC R-288 (287° bearing from EEF NDB) to SSR VORTAC/EEF NDB.

Rwy 29, left turn via 195° heading and SSR VORTAC R-280 (282° bearing from EEF NDB) inbound to SSR VORTAC/EEF NDB. All aircraft maintain 5500.

HOLY CROSS, AK

HOLY CROSS (HCA)
AMDT 2 09239 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, climb heading 013° to 1000 before proceeding on course. **Rwy 19**, climb heading 193° to 1000 before proceeding on course.

NOTE: **Rwy 1**, multiple trees beginning 11' from DER, 163' right of centerline, up to 60' AGL/159' MSL. Multiple trees beginning 14' from DER, 140' left of centerline, up to 60' AGL/159' MSL. **Rwy 19**, multiple trees beginning 21' from DER, 98' right of centerline, up to 60' AGL/159' MSL. Multiple trees beginning 47' from DER, 117' left of centerline, up to 60' AGL/159' MSL.

HOMER, AK

HOMER (HOM)
AMDT 1 80248 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn to heading 240° to intercept and track out-bound on HOM R-200 or 210° bearing from ACE NDB.

Rwy 21, climb runway heading to intercept HOM R-200 or 210° bearing from ACE NDB. Northwest bound through Northeast bound (321° CW 030°), climb to 2500 via HOM R-200 or 210° bearing from ACE NDB, then direct HOM VOR/DME or ACE NDB. Cross HOM VOR/DME or ACE NDB at or above 4000, then climb on course. Northeast bound through Southeast bound (031° CW 150°), climb to 2500 via HOM R-200 or 210° bearing from ACE NDB, then direct HOM VOR/DME or ACE NDB. Cross HOM VOR/DME or ACE NDB at or above 5000, then climb on course. Southeast bound through Southwest bound (151° CW 199°), climb to 3400 via HOM R-200 or 210° bearing from ACE NDB then climb on course. Southwest bound through Northwest bound (200° CW 320°), climb to 2500 via HOM R-200 or 210° bearing from ACE NDB, then climb on course or comply with published Homer, Alaska SID.

HOOPER BAY, AK

HOOPER BAY (HPB)
ORIG-A 09071 (FAA)

DEPARTURE PROCEDURE: **Rwy 31**, climb heading 316° to 800 before turning east.

NOTE: **Rwy 13**, mobile crane 527' from DER, 144' right of centerline, 87' AGL/114' MSL. Pole 453' from DER, 446' left of centerline, 6' AGL/33' MSL, road 349' from DER, on centerline, 15' AGL/28' MSL, light on wind indicator 590' from DER, 389' left of centerline, 7' AGL/34' MSL, hanger 132' from DER, 361' left of centerline, 12' AGL/19' MSL.

HUSLIA, AK

HUSLIA (HLA)
ORIG 08269 (FAA)

NOTE: **Rwy 3**, multiple trees beginning 115' from departure end of runway, 278' right of centerline, up to 20' AGL/261' MSL. Multiple trees beginning 181' from departure end of runway, 20' left of centerline, up to 20' AGL/275' MSL. **Rwy 21**, pole 1125' from departure end of runway, 795' right of centerline, 76' AGL/260' MSL. Multiple trees and bushes beginning 169' from departure end of runway, 164' left of centerline, up to 20' AGL/284' MSL. Multiple trees and bushes beginning 141' from departure end of runway, 204' right of centerline, up to 20' AGL/260' MSL.

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IGIUGIG, AK

IGIUGIG (IGG)

ORIG 09015 (FAA)

NOTE: **Rwy 5**, trees beginning 13' from departure end of runway, 154' right of centerline, up to 60' AGL/159' MSL.

Rwy 23, trees beginning 13' from departure end of runway, 153' left of centerline, up to 60' AGL/209' MSL.

ILIAMNA, AK

ILIAMNA (ILI)

AMDT 2 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, std. w/ min. climb of 400' per NM to 2900, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 7**, climb to 2100, then climbing right turn via 278° bearing to ILI NDB. Climb in ILI NDB/DME holding pattern (South, Right turn, 003° inbound) to 4500 before proceeding enroute.

Rwy 17, climb to 2100, then climbing left turn via 328° bearing to ILI NDB. Climb in ILI NDB/DME holding pattern (South, Right turn, 003° inbound) to 4500 before proceeding enroute. **Rwy 25**, climb heading 240° to 2100, then climbing left turn via 041° bearing to ILI NDB. Climb in ILI NDB/DME holding pattern (South, Right turn, 003° inbound) to 4500 before proceeding enroute.

Rwy 35, climb to 2900, then climbing left turn via 139° bearing to ILI NDB. Climb in ILI NDB/DME holding pattern (South, Right turn, 003° inbound) to 4500 before proceeding enroute or for climb in visual conditions: Cross Iliamna airport at or above 2900 MSL before proceeding on course.

NOTE: **Rwy 7**, WSK 1' from DER, 358' left of centerline, 16' AGL/160' MSL. Tree 304' from DER, 363' left of centerline, 11' AGL/155' MSL. **Rwy 17**, trees beginning 59' from DER, 442' right of centerline, up to 30' AGL/199' MSL. **Rwy 25**, trees beginning 76' from DER, 211' right of centerline, up to 30' AGL/262' MSL. Trees beginning 208' from DER, 12' left of centerline, up to 30' AGL/263' MSL. **Rwy 35**, trees beginning 85' from DER, 18' left of centerline, up to 30' AGL/239' MSL. Trees beginning 757' from DER, 39' right of centerline, up to 30' AGL/238' MSL. Bushes beginning 247' from DER, 281' left of centerline, up to 30' AGL/205' MSL. Bush 434' from DER, 258' right of centerline, 11' AGL/194' MSL. Vehicle on road 436' from DER, 407' left of centerline, up to 15' AGL/219' MSL.

INDIAN MOUNTAIN LRRS (PAIM)

UTOPIA CREEK, AK.ORIG, 09015

Diverse departures not authorized.

TAKEOFF MINIMUMS: **Rwy 6**, 3500-3 for climb in visual conditions. **Rwy 24**, NA.

DEPARTURE PROCEDURE: **Rwy 6**, for climb in visual conditions: Remain within 5.8 NM of Indian Mountain Airport, cross UTO NDB at or above 4600 before proceeding via published route. Max airspeed 250 KIAS.

TAKE-OFF OBSTACLES: **Rwy 6**, Terrain, 1012' MSL, 634' from DER, 670' right of centerline. Terrain, 994' MSL, 147' from DER, 506' right of centerline. Terrain, 1110' MSL 4800' from DER 1787' left of centerline. Buiding 22' AGL/1417' MSL, 34' prior to DER, 421 right of centerline. Tree line, 60' AGL/ 1110' MSL, 689' from DER, 387' left of centerline.

JUNEAU, AK

JUNEAU INTL (JNU)

AMDT 3 07018 (FAA)

DEPARTURE PROCEDURE: **Rwys 8, 26**, Use CINGA DEPARTURE.

KAKE, AK

KAKE (AFE)

AMDT 1 08213 (FAA)

DEPARTURE PROCEDURE: Use KAKE DEPARTURE.

KALSKAG, AK

KALSKAG (KLG)

AMDT 1 05188 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA-high terrain. DEPARTURE PROCEDURE: **Rwy 24**, climb via heading 243° to 1000 before proceeding on course.

NOTES: **Rwy 24**, numerous trees beginning 1000' from departure end of runway, on centerline, up to 100' AGL/ 154' MSL. Numerous trees beginning 750' from departure end of runway, 500' right of centerline, up to 100' AGL/154' MSL. Numerous trees beginning 960' left of centerline, up to 100' AGL/154' MSL.

KALTAG, AK

KALTAG (KAL)

ORIG 05244 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/ a min. climb of 460' per NM to 4000, or 1300-3 for climb in visual conditions. **Rwy 21**, std. w/ a min. climb of 481' per NM to 4000, or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb via 029° heading to 1100 before proceeding on course or climb in visual conditions to cross Kaltag Airport at or above 2700 before proceeding on course. **Rwy 21**, climb via 209° heading to 1100 before proceeding on course or climb in visual conditions to cross Kaltag Airport at or above 2700 before proceeding on course.

TAKE-OFF NOTE: **Rwy 3**, trees 400' from departure end of runway, 400' right of centerline, 50' AGL/250' MSL.

KENAI, AK

KENAI MUNI (ENA)

AMDT 1 07298 (FAA)

DEPARTURE PROCEDURE: **Rwys 1L/R**, climb on a heading between 300° clockwise to 190° from departure end of runway. **Rwys 19L/R**, climb heading 192° to 1100, then climb on a heading between 222° counter clockwise to 010° from departure end of runway.

NOTE: **Rwy 1L**, multiple trees beginning 58' from departure end of runway, 349' right of centerline, up to 60' AGL/113' MSL. Multiple trees beginning 67' from departure end of runway, 376' left of centerline, up to 60' AGL/121' MSL. **Rwy 1R**, tree 1034' from departure end of runway, 264' right of centerline, 60' AGL/134' MSL. Multiple trees beginning 314' from departure end of runway, 477' left of centerline, up to 60' AGL/108' MSL. **Rwy 19L**, multiple buildings and antennas beginning 2053' from departure end of runway, 662' left of centerline, up to 63' AGL/169' MSL. **Rwy 19R**, multiple bushes and trees 24' from departure end of runway, 90' right of centerline, up to 60' AGL/148' MSL. Multiple trees beginning 986' from departure end of runway, 160' left of centerline, up to 60' AGL/147' MSL. Pole 492' from departure end of runway, 600' left of centerline, 33' AGL/125' MSL.

KETCHIKAN, AK

KETCHIKAN INTL (KTN)

AMDT 8 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 11**, use KETCHIKAN DEPARTURE. **Rwy 29**, use SKOWL DEPARTURE.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

10210

KIANA, AK

BOB BAKER MEMORIAL (IAN)

ORIG-A 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, NA-Terrain.DEPARTURE PROCEDURE: **Rwy 6**, Use SELAWIK DEPARTURE.

KING COVE, AK

KING COVE (KVC)

ORIG-A 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, NA-Terrain.DEPARTURE PROCEDURE: **Rwy 7**, Use Cold Bay RNAV departure.

KING SALMON, AK

KING SALMON (AKN)

AMDT 1 08269 (FAA)

NOTE: **Rwy 12**, trees beginning 549' from departure end of runway, 353' left of centerline, up to 30' AGL/108' MSL.**Rwy 36**, trees beginning 750' from departure end of runway, 265' left of centerline, up to 30' AGL/93' MSL.

Bush and trees beginning 59' from departure end of runway, 180' right of centerline, up to 30' AGL/87' MSL.

KIPNUK, AK

KIPNUK (IIK)

ORIG 09351 (FAA)

NOTE: **Rwys 15, 33**, trees beginning at DER left and right of centerline up to 35' AGL/55' MSL.

KLAWOCK, AK

KLAWOCK (AKW)

AMDT 2 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, NA-Obstacles. **Rwy 20**, std. w/ min. climb of 422' per NM to 1000.DEPARTURE PROCEDURE: **Rwy 20**, climb heading 195° to 1800, then climbing right turn to 6000 via heading 310° to intercept 234° bearing from AKW NDB/DME to AKW NDB/DME, then via 015° bearing from AKW NDB/DME to UDENE INT/ANN VOR/DME 59 DME, continue climb in UDENE holding pattern (hold West, right turn, 110° inbound) to cross UDENE at or above MEA before proceeding on course.NOTE: **Rwy 20**, trees beginning 4811' from DER, 1716' right of centerline, up to 158' AGL/557' MSL. Trees 5964' from DER, 1370' left of centerline, up to 158' AGL/357' MSL.

KOBUK, AK

KOBUK (OBU)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, 300-1 or std. w/ a min. climb of 661' per NM to 400.DEPARTURE PROCEDURE: **Rwy 9**, climbing right turn via heading 220° and AMF NDB 283° course to AMF NDB before proceeding on course. **Rwy 27**, climb via heading 267° and AMF NDB 283° course to AMF NDB before proceeding on course.NOTE: **Rwy 9**, multiple trees beginning 169' from departure end of runway, 36' right of centerline, up to 50' AGL/199' MSL. Multiple trees beginning 231' from departure end of runway, 385' left of centerline, up to 50' AGL/199' MSL. **Rwy 27**, multiple trees beginning 79' from departure end of runway, 220' left of centerline, up to 50' AGL/182' MSL. Multiple trees beginning 17' from departure end of runway, 299' right of centerline, up to 50' AGL/249' MSL.

KODIAK, AK

KODIAK (ADQ)

AMDT 2 07074 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, NA-terrain.DEPARTURE PROCEDURE: **Rwys 7, 11, 18, 29, 36**, Use KODIAK DEPARTURE.

KOKHANOK, AK

KOKHANOK (9K2)

ORIG 07018 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, 400-1½ or std. w/ min. climb of 420' per NM to 600.DEPARTURE PROCEDURE: **Rwy 6**, climbing left turn direct ILI NDB/DME, climb in ILI NDB/DME holding pattern (South, right turn, 360° inbound) to cross ILI NDB/DME at or above MEA for route of flight. **Rwy 24**, climbing right turn direct ILI NDB/DME, climb in ILI NDB/DME holding pattern (South, right turn, 360° inbound) to cross ILI NDB/DME at or above MEA for route of flight.NOTE: **Rwy 6**, multiple trees beginning 58' from departure end of runway, 40' left of centerline, up to 60' AGL/309' MSL. Multiple trees beginning 240' from departure end of runway, 86' right of runway centerline, up to 60' AGL/459' MSL. **Rwy 24**, multiple trees beginning 3356' from departure end of runway, 914' left of centerline, up to 60' AGL/209' MSL. Multiple trees beginning 3723' from departure end of runway, 689' right of centerline, up to 60' AGL/209' MSL.

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10210

KOLIGANEK, AK

KOLIGANEK (JZZ)
AMDT 2 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 300-2 or std. w/ min. climb of 205' per NM to 700', or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to DER.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 087° to 900 before turning North. **Rwy 27**, climb heading 267° to 1500 before turning North.

NOTE: **Rwy 9**, multiple trees beginning 133' from DER, 29' right of centerline, up to 50' AGL/399' MSL. Multiple trees beginning 263' from DER, 194' left of centerline, up to 50' AGL/399' MSL. **Rwy 27**, multiple bushes and powerlines beginning 76' from DER, 76' left of centerline, up to 50' AGL/309' MSL. Bushes and trees beginning 242' from DER, 4' right of centerline, up to 50' AGL/309' MSL.

KOTZEBUE, AK

RALPH WIEN MEMORIAL (OTZ)
AMDT 3 07186 (FAA)

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1¼ or std. w/ min. climb of 280' per NM to 300.

NOTE: **Rwy 9**, multiple bushes beginning 735' from departure end of runway, 265' right of centerline, up to 15' AGL/136' MSL. Multiple bushes beginning 1122' from departure end of runway, 2' left of centerline, up to 15' AGL/105' MSL. Car, tower and obstruction light VOR/DME beginning 4114' from departure end of runway, on centerline, up to 27' AGL/147' MSL. **Rwy 18**, vehicle on road, 12' from departure end of runway, on centerline, 15' AGL/25' MSL. Tower 5819' from departure end of runway, 1690' left of centerline, 100' AGL/218' MSL. **Rwy 27**, vehicle on road, 79' from departure end of runway, on centerline, 15' AGL/25' MSL, sign 68' from departure end of runway, 367' right of centerline, 5' AGL/18' MSL. Sign 77' from departure end of runway, 248' left of centerline, 5' AGL/18' MSL. **Rwy 36**, multiple towers beginning 378' from departure end of runway, 533' left of centerline, up to 66' AGL/76' MSL. Rod on obstruction light AMOM 312' from departure end of runway, 299' right of centerline, 15' AGL/38' MSL. Vehicle on road, 11' from departure end of runway, on centerline, 15' AGL/24' MSL.

KOYUK, AK

KOYUK ALFRED ADAMS (KKA)
AMDT 109239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 19**, climb heading 188° to 800 before proceeding on course.

NOTE: **Rwy 19**, multiple trees beginning 35' from DER, 12' right of centerline, up to 30' AGL/279' MSL.

KOYUKUK, AK

KOYUKUK (KYU)
ORIG 09295 (FAA)

DEPARTURE PROCEDURE: Use DIBVY DEPARTURE.

KWETHLUK, AK

KWETHLUK (KWT)
ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 18**, 400-2 or std. w/ min. climb of 240' per NM to 500.

NOTE: **Rwy 18**, trees beginning 292' from departure end of runway, 373' right of centerline, up to 35' AGL/63' MSL. Trees beginning 341' from departure end of runway, 399' left of centerline, up to 35' AGL/134' MSL.

Rwy 36, trees beginning 95' from departure end of runway, 491' left of centerline, up to 35' AGL/84' MSL. Trees beginning 203' from departure end of runway, 396' right of centerline, up to 18' AGL/42' MSL.

KWIGILLINGOK, AK

KWIGILLINGOK (GGV)
ORIG 04162 (FAA)

NOTE: **Rwy 15**, trees 25' from departure end of runway, 325' right of centerline, 35' AGL/53' MSL. **Rwy 33**, trees 60' from departure end of runway, 80' right of centerline, 35' AGL/53' MSL.

LADD AAF (PAFB)

FAIRBANKS/FORT WAINWRIGHT, AK
.....AMDT 1
09295

DEPARTURE PROCEDURE: **Rwy 25**, Climbing left turn via heading 180° and FAI VORTAC R-090 to 5000 direct FAI (hold S, right turn, 348° inbound) continue climb in hold to 5000, before proceeding on course.

Rwy 7, Climbing right turn via heading 180° and FAI VORTAC R-090 to 5000 direct FAI (hold S, right turn, 348° inbound) continue climb in hold to 5000, before proceeding on course.

MANOKOTAK, AK

MANOKOTAK (MBA)
AMDT 1 09239 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn to 2000 direct DLG VOR/DME, continue climb in DLG VOR/DME holding pattern (hold South, right turn, 011° inbound) to cross DLG VOR/DME at or above MEA for route of flight. **Rwy 21**, climbing left turn to 2000 direct DLG VOR/DME, continue climb in DLG VOR/DME holding pattern (hold South, right turn, 011° inbound) to cross DLG VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, trees beginning 1519' from DER, 899' right of centerline, up to 35' AGL/134' MSL. Trees beginning 595' from DER, 150' left of centerline, up to 35' AGL/134' MSL. Rising terrain 42' from DER, 136' right of centerline up to 105' MSL. Rising terrain 12' from DER, 301' left of centerline up to 102' MSL. **Rwy 21**, multiple trees beginning 136' from DER, 133' right of centerline, up to 35' AGL/109' MSL. Multiple buildings beginning 359' from DER, 343' left of centerline, up to 30' AGL/96' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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MARSHALL, AK

MARSHALL DON HUNTER SR (MDM)

AMDT 1 10210 (FAA)

DEPARTURE PROCEDURE: use BIBNE RNAV DEPARTURE.

MC GRATH, AK

MC GRATH (MCG)

AMDT 2 09183(FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 425' per NM to 2200, or 2300-3 for climb in visual conditions. **Rwy 16**, std. w/ min. climb of 470' per NM to 1700, or 2300-3 for climb in visual conditions. **Rwy 26**, std. w/ min. climb of 435' per NM to 2200, or 2300-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 420' per NM to 2200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb via heading 075° to 2200, then climbing right turn thence. . . or for climb in visual conditions: cross Mc Grath Airport at or above 2200, thence. . . **Rwy 16**, climb via heading 160° to 1700, then climbing left turn via heading 014° thence. . . or for climb in visual conditions: cross Mc Grath Airport at or above 2200, thence. . . **Rwy 26**, climb via heading 255° to 2200, then climbing right turn direct MCG VORTAC or VTR NDB, thence. . . or for climb in visual conditions: cross Mc Grath Airport at or above 2200, thence. . . **Rwy 34**, climb via heading 340° to 2200, then climbing right turn heading 166° to MCG R-104 or direct VTR NDB thence. . . or for climb in visual conditions: cross Mc Grath Airport at or above 2200, thence. . .

. . . climb to 4000 southeast bound via MCG R-104, or 097° bearing from VTR NDB. Aircraft southeast bound (079° clockwise 119°) continue climb on course to MEA for route of flight. All others reverse course via the MCG R-104 to MCG VORTAC, or 277° course to VTR NDB, then continue climb on course to MEA for route of flight.

NOTE: **Rwy 8**, tower 532' from departure end of runway, 368' right of centerline, up to 60' AGL/400' MSL. **Rwy 16**, trees beginning 2.2 NM from departure end of runway, 2392' left of centerline, up to 80' AGL/1346' MSL.

MEKORYUK, AK

MEKORYUK (MYU)

AMDT 1 06327 (FAA)

DEPARTURE PROCEDURE: **Rwy 23**, climb heading 234° to 900 before turning left.

NOTE: **Rwy 5**, tree 1028' from departure end of runway, 745' left of centerline, 15' AGL/114' MSL, tree 1619' from departure end of runway, 862' left of centerline, 15' AGL/114' MSL, road 41' from departure end of runway, 302' left of centerline, 15' AGL/50' MSL. **Rwy 23**, tree 75' from departure end of runway, 200' left of centerline, 15' AGL/64' MSL, tree 62' from departure end of runway, on centerline, 15' AGL/64' MSL, tree 482' from departure end of runway, 157' right of centerline, 15' AGL/114' MSL.

MINCHUMINA, AK

MINCHUMINA (MHM)

AMDT 2 06047 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 1600-3 for climb in visual conditions. Procedure NA at night

DEPARTURE PROCEDURE: **Rwy 3**, for climb in visual conditions: Cross MHM NDB north bound at or above 1600 MSL before proceeding on course. **Rwy 21**, climb via heading 204° to 1600 before proceeding on course.

NOTE: **Rwy 3**, trees 269' from departure end of runway, 540' left of centerline, 45' AGL/749' MSL. Trees 170' from departure end of runway, 340' left of centerline, 45' AGL/964' MSL.

MOUNTAIN VILLAGE, AK

MOUNTAIN VILLAGE (MOU)

AMDT 1 09239 (FAA)

NOTE: **Rwy 2**, vehicle on road abeam DER, 250' left of centerline, 15' AGL/364' MSL. **Rwy 20**, bushes beginning 100' from DER, 35' right of centerline, up to 15' AGL/314' MSL. Bushes beginning 140' from DER, 24' left of centerline, up to 15' AGL/314' MSL.

NAPAKIAK, AK

NAPAKIAK (WNA)

ORIG 08325 (FAA)

NOTE: **Rwy 16**, numerous trees beginning 47' from departure end of runway, 161' right of centerline, up to 13' AGL/30' MSL. Tree 465' from departure end of runway, 22' AGL/46' MSL. Numerous poles beginning 177' right of centerline, 273' right of centerline, up to 26' AGL/43' MSL. Rod on tower 359' from departure end of runway, 430' left of centerline, 30' AGL/47' MSL. Antenna 357' from departure end of runway, 408' right of centerline, 29' AGL/46' MSL. Catenary 215' from departure end of runway, 352' right of centerline, 19' AGL/36' MSL. Tree 206' from departure end of runway, 297' left of centerline, 15' AGL/32' MSL. Multiple buildings beginning 639' from departure end of runway, 414' left of centerline, up to 26' AGL/43' MSL. Tree 520' from departure end of runway, 437' right of centerline, 13' AGL/30' MSL.

NELSON LAGOON, AK

NELSON LAGOON (OUL)

ORIG 03359 (FAA)

DEPARTURE PROCEDURE: Use BINAL DEPARTURE.

NENANA, AK

NENANA MUNI (ENN)

AMDT 4 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4L**, 600-2½ or std. with a min. climb of 325' per NM to 1100. **Rwys 4R, 4W, 22L, 22W**, NA-ATC.

DEPARTURE PROCEDURE: **Rwy 4L**, climbing right turn via heading 127° to 1900 then climbing right turn direct ENN VORTAC, thence. . .

Rwy 22R, climb via heading 218° to 1800 then climbing left turn direct ENN VORTAC, thence. . . continue climb in ENN VORTAC holding pattern (Southwest, left turn, 042° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 4L**, trees beginning 1.9 NM from DER, 3209' left of centerline, up to 60' AGL/859' MSL.

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NEW STUYAHOK, AK

NEW STUYAHOK (KNW)

AMDT 1 07354 (FAA)

NOTE: **Rwy 14**, tree 700' from departure end of runway, 647' right of centerline, 60' AGL/409' MSL. Multiple trees beginning 549' from departure end of runway, 499' left of centerline, up to 60' AGL/434' MSL. **Rwy 32**, tree 743' from departure end of runway, 104' right of centerline, 60' AGL/445' MSL.

NIKOLAI, AK

NIKOLAI (FSP)

ORIG 06047 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn to 6000 via heading 224° and MCG VORTAC R-055 to MCG VORTAC, thence...**Rwy 22**, climb to 6000 via heading 224° and MCG VORTAC R-065 to MCG VORTAC, thence...

...continue climb in MCG VORTAC holding pattern (hold east, right turn, 280° inbound) to cross MCG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 145' from departure end of runway, 534' left of centerline, up to 50' AGL/549' MSL; multiple trees beginning 229' from departure end of runway, 531' right of centerline, 50' AGL/549' MSL. **Rwy 22**, multiple trees, power poles, and buildings beginning 48' from departure end of runway, 32' left of centerline, up to 50' AGL/549' MSL; multiple trees and power pole 365' from departure end of runway, 187' right of centerline, 30' AGL/471' MSL.

NOATAK, AK

NOATAK (WTK)

AMDT 1 07186 (FAA)

DEPARTURE PROCEDURE: **Rwy 1**, climb via heading 007° to 1900 before proceeding on course.

NOTE: **Rwy 1**, multiple buildings and trees beginning 475' from departure end of runway, 221' right of centerline, up to 30' AGL/104' MSL. Tower 1938' from departure end of runway, 875' left of centerline, 47' AGL/146' MSL.

NOME, AK

NOME (OME)

AMDT 5 05188 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 467' per NM to 1800, or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn direct NOME VOR/DME, thence...or climb in visual conditions to cross Nome Airport at or above 1200 before proceeding on course. **Rwy 10**, climb via heading 096° to 1200 thence...**Rwys 21, 28**, turn left direct NOME (OME) VOR/DME/FORT DAVIS (FDV) NDB, thence...departures northeast CW through west bound (040 CW 260), climb on course. Departures west through northeast bound (260 CW 040), climb south bound on OME R-138° or 145° bearing from FDV NDB to 2200 then turn right via direct NOME (OME) VOR/DME/FORT DAVIS (FDV) NDB. Continue climb on course.

NOTE: **Rwy 3**, bush 112' from departure end of runway, 250' left of centerline, 58' AGL/58' MSL. Bush 15' from departure end of runway, 315' right of centerline, 50' AGL/53' MSL. Bush 294' from departure end of runway, 445' right of centerline, 50' AGL/57' MSL. Pole 2116' from departure end of runway, 313' left of centerline, 90' AGL/100' MSL. Pole 1656' from departure end of runway 234' right of centerline, 78' AGL/88' MSL. Bush 147' from departure end of runway, 135' left of centerline, 40' AGL/49' MSL. Bush 81' from departure end of runway, 203' right of centerline, 40' AGL/47' MSL. Bush 283' from departure end of runway, 72' right of centerline, 40' AGL/48' MSL. Pole 2415' from departure end of runway, 495' left of centerline, 90' AGL/101' MSL. AAO 5.84 NM from departure end of runway, 3268' right of centerline, 200' AGL/1352' MSL. **Rwy 10**, pole 1754' from departure end of runway, 924' left of centerline, 83' AGL/93' MSL. Obstruction light on pole 1873' from departure end of runway, 612' left of centerline, 50' AGL/86' MSL. Obstruction light pole 419' from departure end of runway, 470' right of centerline, 28' AGL/48' MSL. Antenna on building 1075' from departure end of runway, 742' left of centerline, 33' AGL/63' MSL. Building 1101' from departure end of runway, 759' left of centerline, 27' AGL/63' MSL. Antenna on building 766' from departure end of runway, 588' right of centerline, 30' AGL/54' MSL. Truck on road 2' from departure end of runway, 500' right of centerline, 15' AGL/30' MSL. Obstruction light on pole 1729' from departure end of runway, 595' left of centerline, 50' AGL/71' MSL. Truck on road 209' from departure end of runway, 79' right of centerline, 15' AGL/30' MSL. Pole 1744' from departure end of runway, 569' left of centerline, 43' AGL/68' MSL. **Rwy 20**, truck on road 549' from departure end of runway, 249' right of centerline, 35' AGL/50' MSL. Road 625' from departure end of runway, 12' left of centerline, 32' AGL/47' MSL. Bush 803' from departure end of runway, 412' left of centerline, 8' AGL/50' MSL. Pole 1549' from departure end of runway, 471' left of centerline, 52' AGL/62' MSL. Pole 1594' from departure end of runway, 506' left of centerline, 52' AGL/62' MSL. Pole 1621' from departure end of runway, 342' left of centerline, 52' AGL/62' MSL. Ground 839' from departure end of runway, 388' right of centerline, 0' AGL/40' MSL. Pole 1756' from departure end of runway 85' left of centerline, 52' AGL/62' MSL. Ground 945' from departure end of runway, 344' left of centerline, 0' AGL/37' MSL.

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10210

NOME (CON'T.)

Rwy 28, pole 101' from departure end of runway, 520' left of centerline, 36' AGL/72' MSL. Pole 129' from departure end of runway, 521' left of centerline, 62' AGL/72' MSL. Building 422' from departure end of runway, 528' left of centerline, 32' AGL/57' MSL. Ground 906' from departure end of runway, 436' left of centerline, 0' AGL/60' MSL. Ground 374' from departure end of runway, 476' left of centerline, 0' AGL/36' MSL. Antenna on building 1335' from departure end of runway, 203' left of centerline, 31' AGL/51' MSL.

NONDALTON, AK

NONDALTON (5NN)
ORIG 06047 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwy 20**, Use ILIAMNA DEPARTURE.

NOORVIK, AK

ROBERT/BOB/CURTIS MEMORIAL (D76)
ORIG 10042 (FAA)

DEPARTURE PROCEDURE: **Rwy 6**, climbing left turn to a heading between 239° CW to 282° from DER to 3700 before proceeding on course, or minimum climb of 345' per NM to 2700 for all other courses. **Rwy 24**, climb on a heading between 104° CW to 309° from DER to 3700 before proceeding on course, or minimum climb of 265' per NM to 3500 for all other courses.

NOTE: **Rwy 6**, trees beginning at DER, 400' left and right of centerline, up to 20' AGL/119' MSL. **Rwy 24**, trees beginning at DER, 400' left and right of centerline, up to 20' AGL/94' MSL.

NORTHWAY, AK

NORTHWAY (ORT)
AMDT 2 07018 (FAA)

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to 4000 via ORTR-100, then climbing right turn to 8000 direct ORT VORTAC, continue climb in ORT VORTAC holding pattern (West, right turn, 108° inbound) to 8000 before proceeding on course. . . . **Rwy 23**, climbing left turn to 4000 via ORTR-170, then climbing left turn to 8000 direct ORT VORTAC, continue climb in ORT VORTAC holding pattern (West, right turn, 108° inbound) to 8000 before proceeding on course. . . .

. . . continue climb via assigned route.

NOTE: **Rwy 5**, multiple trees beginning 1133' from departure end of runway, 727' right of centerline, up to 60' AGL/1859' MSL. Multiple trees beginning 3881' from departure end of runway, 1522' left of centerline, up to 60' AGL/1859' MSL. **Rwy 23**, multiple trees beginning 777' from departure end of runway, 560' left of centerline, up to 60' AGL/1809' MSL. Multiple trees beginning 1365' from departure end of runway, 527' right of centerline, up to 60' AGL/1809' MSL.

NUIQSUT, AK

NUIQSUT (AQT)
ORIG 10098 (FAA)

NOTE: **Rwy 4**, road with vehicles beginning 165' from DER, left and right of centerline, up to 15' AGL/89' MSL. **Rwy 22**, terrain beginning 211' from DER, 523' left of centerline to 450' right of centerline, up to 74' MSL.

NULATO, AK

NULATO (NUL)
ORIG 04330 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, 700-2 ¾ with minimum climb of 356 feet per NM to 1300 or 1000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2**, climb via heading 024° to 1300 before proceeding on course or climb in visual conditions to cross Nulato Airport at or above 1300 before proceeding on course. **Rwy 20**, climb via heading 204° to 1500 before proceeding on course.

NOTE: **Rwy 2**, tree 3078' from departure end of runway 355' left of centerline 100' AGL 655' MSL. Tree 5041' from departure end of runway 154' right of centerline 100' AGL 699' MSL. Tree 1.03 NM from departure end of runway 122' right of centerline 100' AGL 799' MSL. Tree 1.24 NM from departure end of runway 705' left of centerline 100' AGL 899' MSL. Tree 1.44 NM from departure end of runway 2385' left of centerline 100' AGL 999' MSL. Tree 2.57 NM from departure end of runway 5740' left of centerline 100' AGL 1035' MSL. **Rwy 20**, tree 3.33 NM from departure end of runway 1.64 NM right of centerline 100' AGL 957' MSL. Tree 3.10 NM from departure end of runway 1.94 NM right of centerline 100' AGL 965' MSL. Tree 1.49 NM from departure end of runway 7.39 NM right of centerline 200' AGL 1850' MSL.

PALMER, AK

PALMER MUNI (PAQ)
AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwys 16, 27, 34**, Use PALMER RNAV DEPARTURE.

PERRYVILLE, AK

PERRYVILLE (PEV)
AMDT 1 07018 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, NA-obstacles.
DEPARTURE PROCEDURE: **Rwy 20**, Use CILAC (RNAV) DEPARTURE.

PETERSBURG, AK

PETERSBURG JAMES A. JOHNSON (PSG)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, turn left; climb VFR to 2000-3 or 1000-3 with a min. climb of 300' per NM to 5000. Night IFR, NA for **Rwy 22**.

DEPARTURE PROCEDURE: **Rwy 4** turn left, **Rwy 22**, turn right immediately; climb VFR to 2000 (1000 with 300/NM climb restriction) within 1.5 miles NW of airport; depart from over airport to intercept the I-PSG LDA NW course or fly heading of 010° to intercept the 320° bearing from FPN NDB. Climb to I-PSG 10 DME, then turn left, continue climb to 7000 on 280° heading. Transition: NW-bound departures intercept V-317, J-502, A-15, B-37. SE-bound departures proceed direct to LVD VOR or SQM NDB.

PILOT POINT, AK

PILOT POINT (PNP)
ORIG 03359 (FAA)

DEPARTURE PROCEDURE: Use ZILKO RNAV DEPARTURE

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PLATINUM, AK

PLATINUM (PTU)
ORIG 99364 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,13**, NA.
DEPARTURE PROCEDURE: **Rwys 27,31**, climb runway heading to 2200 before turning southbound.

POINT HOPE, AK

POINT HOPE (PHO)
ORIG 09351 (FAA)

NOTE: **Rwy 19**, barge/iceberg 808' from DER, 47' left of centerline, 50' AGL/50' MSL.

PORT HEIDEN, AK

PORT HEIDEN (PTH)
AMDT 2 07074 (FAA)

DEPARTURE PROCEDURE: **Rwy 5**, climb heading 054° to 1000, then climbing left turn to 2500 direct PDN NDB/DME, thence... **Rwy 13**, climb heading 131° to 1000, then climbing right turn to 2500 direct PDN NDB/DME, thence... **Rwy 23**, climbing right turn to 2500 direct PDN NDB/DME, thence... **Rwy 31**, climbing left turn to 2500 direct PDN NDB/DME, thence...
...continue climb in PDN NDB/DME holding pattern (hold southwest, left turn, 052° inbound) to cross PDN NDB at or above MEA for route of flight.

QUINHAGAK, AK

QUINHAGAK (PAQH)
ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 220' per NM to 3600, or 1100-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 12**, for climb in visual conditions: cross Quinhagak airport at or above 1000 MSL before proceeding on course.
NOTE: **Rwy 30**, tree 22' from DER, 425' left of centerline 15' AGL/64' MSL. **Rwy 12**, tree 248' from DER, 438' left of centerline 15' AGL/64' MSL. Tree 9' from DER, 411' right of centerline 15' AGL/64' MSL. Reflector 19' from DER, 279' right of centerline, 21' AGL/46' MSL.

RUBY, AK

RUBY (RBY)
ORIG 04162 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. from 355° bearing clockwise to 312° bearing, NA from 313° bearing to 354° bearing. **Rwy 21**, 700-2 or std. with 350' per NM climb to 1500.
NOTE: **Rwy 21**, trees 4700 to 6700' from departure end of runway, 250' left of centerline to 1600' right of centerline, 50' AGL/854' MSL.

RUSSIAN MISSION, AK

RUSSIAN MISSION (RSH)
AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 500-2 w/ min. climb of 430' per NM to 1400 or 1900-2 for climb in visual conditions. Climb in visual conditions NA at night. **Rwy 35**, 500-2 w/ min. climb of 330' per NM to 3800 or 1900-2 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwys 17, 35**, for climb in visual conditions: cross Russian Mission Airport at or above 1800. Do not exceed 180 knots until proceeding on course.

NOTE: **Rwy 17**, multiple trees beginning 1193' from DER, 808' right of centerline, up to 80' AGL/279' MSL.

Rwy 35, multiple trees 2116' from DER, 907' left of centerline, up to 80' AGL/329' MSL.

ST. GEORGE, AK

ST. GEORGE (PBV)
AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 11**, std. w/ min. climb of 454' per NM to 1100 or 700-3 with a minimum climb of 311' per NM to 1200 or 1300-3 for climb in visual conditions.

Rwy 29, std. w/ min. climb of 690' per NM to 1200 or 800-3 with a minimum climb of 300' per NM to 1200 or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climb heading 107° to 1100 then climbing right turn via heading 225° to intercept the 180° bearing from SRI NDB/DME before proceeding on course or for climb in visual conditions: cross St George airport at or above 1300 before proceeding on course. **Rwy 29**, climb heading 287° to 1200 then climbing left turn via heading 135° to intercept the 180° bearing from SRI NDB/DME before proceeding on course or for climb in visual conditions: cross St. George airport at or above 1300 before proceeding on course.

NOTE: **Rwy 29**, terrain beginning 102' from DER, 43' right of centerline up to 260' MSL.

ST. MARYS, AK

ST. MARYS (KSM)
AMDT 1 87043 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6,17,24**, 200-1.
DEPARTURE PROCEDURE: **Rwys 6,17,24,35**, climb straight ahead to 1000, continue climb on course.

ST. MICHAEL, AK

ST. MICHAEL (SMK)
AMDT 1 05188 (FAA)

DEPARTURE PROCEDURE: **Rwy 20**, climb via heading 196° to 700' before turning right.

NOTE: **Rwy 2**, tree 36' from departure end of runway, 377' right of centerline, 20' AGL/83' MSL. **Rwy 20**, terrain beginning 2' to 2276' from departure end of runway, 51' to 966' right of centerline, up to 151' MSL. Terrain beginning 110' to 917' from departure end of runway, 13' to 533' left of centerline, up to 119' MSL. Tree 1779' from departure end of runway, 504' right of centerline, 20' AGL/219' MSL. Tree 1.2 NM from departure end of runway 1 NM right of centerline, 20' AGL/520' MSL.

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ST. PAUL ISLAND, AK

ST. PAUL ISLAND (SNP)

AMDT 2 05356 (FAA)

DEPARTURE PROCEDURE: **Rwy 18**, climb via heading 180° and via 165° bearing from SPY NDB/DME to 2000 before proceeding on course. **Rwy 36**, climb via heading 360° and via 360° bearing from SPY NDB/DME to 2000 before proceeding on course.

NOTE: **Rwy 18**, post 98' from departure end of runway, 421' left of centerline, 6' AGL/39' MSL. **Rwy 36**, rising terrain beginning 133' from departure end of runway, up to 79' MSL.

SAND POINT, AK

SAND POINT (SDP)

AMDT 2A 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 600-1 or std. with min. climb of 360' per NM to 1000'. **Rwy 31**, 600-3 or std. with min. climb of 375' per NM to 1000'.

DEPARTURE PROCEDURE: **Rwy 13**, climb via 134° bearing from HBT NDB/DME to 2200' then climbing left turn direct HBT NDB/DME, thence... **Rwy 31**, climb via 314° bearing from HBT NDB/DME to 1800', then climbing right turn direct HBT NDB/DME, thence...

...climb in HBT NDB/DME holding pattern (southeast, right turn, 340° inbound) to 10,000' before proceeding on course.

NOTE: **Rwy 13**, cliff beginning 244' from departure end of runway, 469' left of centerline, up to 15' AGL/458' MSL.

Rwy 31, tree 1.8 NM from departure end of runway, 1145' left of centerline, 15' AGL/514' MSL. Tree 2.6 NM from departure end of runway, 3642' right of centerline, 15' AGL/599' MSL. **Rwys 13, 31**, ships up to 100' MSL located in water surrounding Sand Point.

SAVOONGA, AK

SAVOONGA (SVA)

AMDT 1 10210 (FAA)

TAKE-OFF MINIMUMS: **Rwy 23**, std. w/ min climb of 250' per NM to 1000, or 1600-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, aircraft departing via ULL R-260 CW R-080 climb on course, all others climb via ULL R-059 to 2200 before turning South. **Rwy 23**, aircraft departing via ULL R-260 CW R-080 climb on course. All others climbing right turn direct ULL VOR/DME then via ULL R-059 to 2200 before turning South. For climb in visual conditions: cross Savoonga Airport at or above 1500, then proceed on ULL R-059 to 2200.

NOTE: **Rwy 23**, trees 2791' from DER, 140' left of centerline, 20' AGL/140' MSL. Rising terrain beginning 590' from DER, 351' left of centerline, up to 99' MSL.

SCAMMON BAY, AK

SCAMMON BAY (SCM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 590' per NM to 1300, or 2200-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 240' per NM to 2400, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 101° to 2100 before proceeding on course, or for climb in visual conditions, cross Scammon Bay airport at or above 2100 before proceeding on course. **Rwy 28**, climb heading 281° to 2400 before turning south, or for climb in visual conditions, cross Scammon Bay airport at or above 2100 before proceeding on course.

NOTE: **Rwy 10**, bushes beginning 1.27 NM from DER, 546' left of centerline, up to 15' AGL/322' MSL. Bush 1.49 NM from DER, 2163' right of centerline, 15' AGL/464' MSL.

SELAWIK, AK

SELAWIK (WLK)

AMDT 1 07186 (FAA)

NOTE: **Rwy 4**, multiple bushes beginning 176' from departure end of runway, 429' left of centerline, up to 18' AGL/18' MSL. **Rwy 22**, antenna on building, 1040' from departure end of runway, 448' right of centerline, 30' AGL/47' MSL. **Rwy 27**, multiple antennas and buildings beginning 270' from departure end of runway, right and left of centerline, up to 108' AGL/125' MSL. Bridge 2148' from departure end of runway, 249' right of centerline, 60' AGL/90' MSL.

SHAGELUK, AK

SHAGELUK (SHX)

ORIG 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 180° to 1400 before turning left. **Rwy 34**, climb heading 345° to 1200 before turning right.

NOTE: **Rwy 16**, vehicles on road, beginning 160' from departure end of runway, 153' right of centerline, up to 15' AGL/93' MSL. Bush 322' from departure end of runway, 9' left of centerline, 9' AGL/87' MSL. Trees beginning 2' from departure end of runway, 393' right of centerline, up to 40' AGL/118' MSL. Trees beginning 720' from departure end of runway, 122' left of centerline, up to 53' AGL/131' MSL. **Rwy 34**, trees beginning 34' from departure end of runway, 386' right of centerline, up to 53' AGL/131' MSL.

SHAKTOOLIK, AK

SHAKTOOLIK (2C7)

ORIG 09239 (FAA)

DEPARTURE PROCEDURE: **Rwy 14**, climb on heading between 115° CW to 322° from DER, or min. climb of 220' per NM to 3200 for all other courses.

NOTE: **Rwy 14**, buildings beginning 199' from DER, 483' left of centerline, up to 21' AGL/55' MSL.

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SHISHMAREF, AK

SHISHMAREF (SHH)
ORIG 09071 (FAA)

NOTE: **Rwy 5**, multiple trees, 9' from DER, 179' left of centerline, up to 15' AGL/85' MSL. Multiple trees, 92' from DER, 94' right of centerline, up to 15' AGL/88' MSL. NDB tower, 236' from DER, 561' left of centerline, 40' AGL/66' MSL. **Rwy 23**, boat, 703' from DER, 663' right of centerline, 50' AGL/50' MSL.

SHUNGNAK, AK

SHUNGNAK (SHG)
ORIG 04330 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, climbing right turn direct AMF NDB. **Rwy 27**, climbing right turn direct AMF NDB.

SITKA, AK

SITKA ROCKY GUTIERREZ (SIT)
AMDT 3 07018 (FAA)

DEPARTURE PROCEDURE: Use BIORKA DEPARTURE.

SOLDOTNA, AK

SOLDOTNA (SXQ)
AMDT 2 07242 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, 200-1.
DEPARTURE PROCEDURE: **Rwy 7**, climb on a heading between 050° counter clockwise to 251° or 175° clockwise to 251° from departure end of runway. **Rwy 25**, climb heading 251° to 800, then climb on a heading between 160° clockwise to 065° from departure end of runway.

NOTE: **Rwy 7**, multiple trees beginning 1668' from departure end of runway, 454' right of centerline, up to 60' AGL/259' MSL. **Rwy 25**, multiple trees beginning 316' from departure end of runway, 517' left of centerline, up to 60' AGL/309' MSL.

SPARREVOHN LRRS (PASV)

SPARREVOHN, AKORIG,
09015

Diverse departures not authorized.
TAKE-OFF MINIMUMS: **Rwy 16**, 2300-3 for climb in visual conditions. **Rwy 34**, NA.
DEPARTURE PROCEDURE: **Rwy 16**, for climb in visual conditions: Remain within 5.8 NM of Sparrevohn airport, cross CRN NDB at or above 3700 before proceeding via published route. Max airspeed 250 KIAS. **Rwy 34**, NA.
TAKE-OFF OBSTACLES: **Rwy 16**, Terrain 1447' MSL, 1900' from DER, 1009' right of centerline. Terrain 1523' MSL, 1251' from DER, 835' left of centerline. Terrain 1496' MSL, 943' from DER, 746' left of centerline. Terrain 1417' MSL, 28' from DER, 434' right of centerline.

TALKEETNA, AK

TALKEETNA (TKA)
AMDT 2 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1¼.
DEPARTURE PROCEDURE: **Rwy 18**, Climb heading 188° to 1500 then climbing right turn direct TKA VOR/DME, thence... **Rwy 36**, Climb heading 008° to 1000 then climbing left turn direct TKA VOR/DME, thence...
...continue climb-in-hold in TKA VOR/DME holding pattern (hold South, left turns, 352° inbound) to cross TKA VOR/DME at or above MEA/MCA for route of flight before proceeding on course.

NOTE: **Rwy 18**, trees beginning 1829' from DER, 978' left of centerline, up to 60' AGL/648' MSL. **Rwy 36**, tree 1117' from DER, 390' right of centerline, 60' AGL/484' MSL.

TANANA, AK

RALPH M. CALHOUN MEMORIAL (TAL)
AMDT 1 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, std. w/ a min. climb of 405' per NM to 1300, or 1200-2¼ for climb in visual conditions. **Rwy 25**, std. w/ a min. climb of 230' per NM to 600, or 1200-2¼ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 7**, climbing right turn via heading 102° and TAL VOR/DME R-081 to SATUE/ TAL 12 DME, or climb in visual conditions to cross Ralph M. Calhoun Memorial at or above 1300 then climb via TAL VOR/DME R081 to SATUE. **Rwy 25**, climbing left turn via heading 078° and TAL VOR/DME R-081 to SATUE, or climb in visual conditions to cross Ralph M. Calhoun Memorial at or above 1300 then climb via TAL VOR/DME R-081 to SATUE. All aircraft continue climb in SATUE/12 DME holding pattern (hold east, left turn, 261° inbound) to cross SATUE at or above 4000 before proceeding on course.
NOTE: **Rwy 7**, multiple trees beginning 9000' from departure end of runway, 2149' left of centerline, up to 60' AGL/809' MSL. **Rwy 25**, trees 845' from departure end of runway, 1156' right of centerline, up to 60' AGL/459' MSL.

TELLER, AK

TELLER (TER)
ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 500-2 w/ min. climb of 201' per NM to 1100 or std. w/ min. climb of 310' to 1100 or 1500-3 for climb in visual conditions. **Rwy 25**, 300-2 or std. w/ min. climb of 220' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 7**, climb heading 075° to 1400 before turning right. For climb in visual conditions cross Teller Airport at or above 1600 before proceeding on course. **Rwy 25**, climb heading 255° to 1200 before turning left.
NOTE: **Rwy 7**, vehicles and vegetation beginning 57' from DER, 500' left of centerline, up to 15' AGL/314' MSL.
Rwy 25, vegetation and terrain beginning 1052' from DER, 276' right of centerline, up to 10' AGL/359' MSL.

TIN CITY LRRS (PATC)

TIN CITY, AK. AMDT 3, 09015
Diverse Departures not authorized.
DEPARTURE PROCEDURE: **Rwy 16**, use TIN CITY DEPARTURE. **Rwy 34**, NA.

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TOGI AK VILLAGE, AK

TOGI AK (TOG)

AMDT 1 07018 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10, 28**, NA-environmental

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 028° to 1000, then climbing right turn to 2800 direct TOG NDB/DME, continue climb in TOG NDB/DME holding pattern (hold southwest, right turn, 023° inbound) to cross TOG NDB/DME at or above 2800 before proceeding on course. **Rwy 21**, climb heading 208° to 1000, then climbing left turn to 2800 direct TOG NDB/DME, continue climb in TOG NDB/DME holding pattern (hold southwest, right turn, 023° inbound) to cross TOG NDB/DME at or above 2800 before proceeding on course.

NOTE: **Rwy 21**, boats beginning 150' from departure end of runway, 500' left of centerline, up to 50' AGL/50' MSL.

TOK, AK

TOK JUNCTION (6K8)

ORIG 06047 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, std. with a min. climb of 280' per NM to 2700, or 1200-3 for climb in visual conditions. **Rwy 25**, 300-1½ or std. with a min. climb of 360' per NM to 2300 and 230' per NM to 3600, or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 7**, climb to 8000 via heading 070° and ORT VORTAC R-286 direct ORT VORTAC, or for climb in visual conditions: cross Tok Junction Airport at or above 2700, then continue climbing to 8000 via heading 070° and ORT VORTAC R-286 direct ORT VORTAC. **Rwy 25**, climb to 2300 via heading 251°, then climbing right turn to 8000 via heading 060° and ORT VORTAC R-286 direct ORT VORTAC, or for climb in visual conditions: cross Tok Junction Airport at or above 2700, then continue climbing to 8000 via heading 070° and ORT VORTAC R-286 direct ORT VORTAC.

NOTE: **Rwy 25**, tower 1 NM from departure end of runway, 2150' left of centerline, 228' AGL/1863' MSL.

TOKSOOK BAY, AK

TOKSOOK BAY (OOK)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, std. with a min. climb of 480' per NM to 1800, or 1300-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 165° to 1000 before proceeding on course. **Rwy 34**, for climb in visual conditions: Cross Toksook Bay Airport at or above 1600 before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 85' from departure end of runway, 300' right of centerline, up to 15' AGL/65' MSL. Multiple trees beginning 100' from departure end of runway, on centerline, up to 15' AGL/61' MSL. **Rwy 34**, multiple trees beginning 1260' from departure end of runway, 240' right of centerline, up to 15' AGL/264' MSL.

UNALAKLEET, AK

UNALAKLEET (UNK)

AMDT 1 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 600-2¼ or std. w/ a min. climb of 380' per NM to 800. **Rwy 33**, 500-2 or std. w/ a min. climb of 380' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 8**, climbing right turn to 1800 via heading 175° and UNK R-210, then climbing right turn to intercept UNK R-240 to UNK VOR/DME before proceeding on course. **Rwy 15**, climbing right turn to 1600 via heading 175° and UNK R-210, then climbing right turn to intercept UNK R-235 to UNK VOR/DME before proceeding on course. **Rwy 26**, climb to 1600 via heading 263° and UNK R-250, then climbing left turn to intercept UNK R-229 to UNK VOR/DME before proceeding on course. **Rwy 33**, climbing left turn to 1600 via heading 250 and UNK R-265, then climbing left turn to intercept UNK R-238 to UNK VOR/DME before proceeding on course.

NOTE: **Rwy 8**, tower 2.1 NM from DER, 2981' left of centerline, 308' AGL/608' MSL. Tree 2.4 NM from DER, 2858' left of centerline, 35' AGL/434' MSL. Vehicle on road 100' from DER, 152' left of centerline, 15' AGL/24' MSL. **Rwy 15**, antenna 1280' from DER, 133' left of centerline, 38' AGL/62' MSL. **Rwy 33**, trees beginning 1.4 NM from DER, 1877' right of centerline, up to 35' AGL/484' MSL. Vehicles on road beginning 18' from DER, 146' right of centerline, up to 15' AGL/33' MSL.

UNALASKA, AK

UNALASKA (DUT)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 1000-3.**Rwy 30**, 600-2.

DEPARTURE PROCEDURE: **Rwys 12, 30**, climb in visual conditions until established on DUT NDB/DME 355° bearing over JADPI/DUT 2 DME (visual conditions must be maintained from take-off until established over JADPI at or above 400). Cross JADPI at or above 400 then climb on the 355° bearing from DUT NDB/DME to 5500 before proceeding on course.

NOTE: Rapidly rising terrain to above 2000' MSL East, South, and West of airport.

VALDEZ, AK

VALDEZ PIONEER FIELD (VDZ)

AMDT 5 07074 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 3500-3. Procedure NA at night.

DEPARTURE PROCEDURE: **Rwys 6, 24**, climb in visual conditions to MNL NDB (visual conditions must be maintained from takeoff until established over MNL NDB at or above 3500 MSL); cross MNL NDB at or above 3500 MSL, continue climb to 7000 via 233° bearing from MNL NDB, then climbing left turn to 10000 direct MNL NDB.

NOTE: **Rwy 6**, multiple bushes and trees beginning 2184' from departure end of runway, 662' left of centerline, up to 100' AGL/699' MSL. Multiple trees beginning 643' from departure end of runway, 470' right of centerline, up to 100' AGL/699' MSL. Obstruction light on LDA 6' from departure end of runway, 299' right of centerline, 79' AGL/148' MSL. Obstruction light on DME 22' from departure end of runway, 361' right of centerline, 79' AGL/148' MSL. **Rwy 24**, multiple trees beginning 623' from departure end of runway, 385' left of centerline, up to 100' AGL/130' MSL. Multiple trees beginning 469' from departure end of runway, 482' right of centerline, up to 100' AGL/139' MSL.

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VENETIE, AK

VENETIE (PAVE)

ORIG 08101 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, Climbing right turn to intercept FYU VORTAC R-294 to FYU VORTAC. **Rwy 22**, Climbing left turn to intercept FYU VORTAC R-287 to FYU VORTAC.

WALES, AK

WALES (IWK)

ORIG 04218 (FAA)

TAKE-OFF MINIMUMS: **Rwy 18**, 400-1½ or std. with a min. climb of 445' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 18**, climb via heading 177° until crossing TNC NDB/DME bearing 228° then turn left heading 018° to intercept the 048° course to TNC NDB/DME. **Rwy 36**, climb via heading 357° to 2000 then turn right heading 183° to intercept the 153° course to TNC NDB/DME.

NOTE: **Rwy 18**, trees 1.2 NM from departure end of runway, 2334' left of centerline, 50' AGL/349' MSL.

WASILLA, AK

WASILLA (IYS)

ORIG 05020 (FAA)

TEXTUAL DEPARTURE: **Rwy 3**, turn left direct BGQ VORTAC; then, **Rwy 21**, turn right direct BGQ VORTAC; then

Aircraft departing R-150 degrees clockwise through R-309, climb on course.

Aircraft departing R-310 degrees clockwise through R-149, climb in BGQ holding pattern to 4500 prior to departing on course. Hold N, RT, 168° inbound. Do not exceed 265 knots in holding.

WILLOW, AK

WILLOW (UUO)

ORIG 06271 (FAA)

DEPARTURE PROCEDURE: Use BIG LAKE DEPARTURE.

WRANGELL, AK

WRANGELL (WRG)

AMDT 1 82021 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10,28**, 1000-3.

DEPARTURE PROCEDURE: **Rwy 10**, turn left immediately. **Rwy 28**, climb on runway heading to 500. Proceed under VFR until established on LVD VOR R-059 or 059° bearing from SQM NDB. Climb to cross LVD VOR/SQM NDB at or above 4000.

YAKUTAT, AK

YAKUTAT (YAK)

AMDT 4 05188 (FAA)

DEPARTURE PROCEDURE: **Rwys 2,11,20,29**, All aircraft climb direct YAK VOR/DME or OCC NDB. Thence...

...Aircraft continuing via radial/bearing 105 CW 280 proceed on course.

...All other aircraft climb in YAK VOR/DME holding pattern (SE, LT, 290° inbound) or OCC NDB holding pattern (W, RT, 112° inbound) to cross YAK VOR/DME or OCC NDB at or above 12,000 before proceeding on course.

NOTE: **Rwy 2**, multiple trees 458' from departure end of runway, 317' right of centerline, up to 76' AGL/99' MSL. Multiple trees 643' from departure end of runway, 342' left of centerline, up to 87' AGL/114' MSL. Tower 376' from departure end of runway, 243' left of centerline, 42' AGL/75' MSL. Obstruction light on glide slope 372' from departure end of runway, 238' left of centerline 34' AGL/67' MSL. Obstruction light on TMOM 593' from departure end of runway, 639' left of centerline, 24' AGL/51' MSL. **Rwy 11**, multiple trees beginning 95' from departure end of runway, 345' right of centerline, up to 75' AGL/98' MSL. Multiple trees beginning 121' from departure end of runway, from 377' left of centerline, up to 92' AGL/115' MSL. **Rwy 20**, multiple trees beginning 129' from departure end of runway, 297' right of centerline, up to 148' AGL/158' MSL. Multiple trees beginning 79' from departure end of runway, 283' left of centerline, up to 137' AGL/147' MSL. **Rwy 29**, multiple trees and bushes 122' from departure end of runway, 389' right of centerline, up to 123' AGL/153' MSL. Multiple trees and bushes 51' from departure end of runway, 65' left of centerline, up to 108' AGL/138' MSL.

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