

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
BIORKA	FOUR	BKA4.BKA	THREE	11/13/2014	1 FEBRUARY 2018

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 11: CLIMBING RIGHT TURN HEADING 223.00 TO INTERCEPT BKA R-358 TO BKA VORTAC THENCE...

TAKEOFF RWY 29: CLIMBING LEFT TURN DIRECT BKA VORTAC THENCE...

VCOA ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS SITKA ROCKY GUTIERREZ AIRPORT AT OR ABOVE 3800 THEN CLIMB DIRECT BKA VORTAC THENCE...

...CONTINUE CLIMB IN BKA VORTAC HOLDING PATTERN (HOLD S, LT, 009.00 INBOUND) TO CROSS BKA VORTAC AT OR ABOVE MEA FOR DIRECTION OF FLIGHT BEFORE PROCEEDING ON COURSE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
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PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 11: STANDARD WITH THE FOLLOWING MINIMUM CLIMB REQUIREMENTS: 180 KTS OR LESS, 410 FT PER NM TO 1900; MORE THAN 180 KTS, 645 FT PER NM TO 3400, OR 3900-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 29: STANDARD WITH MINIMUM CLIMB OF 233 FT PER NM TO 1000, OR 3900-3 FOR CLIMB IN VISUAL CONDITIONS.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 11, TREES BEGINNING 1418 FT FROM DER, 776 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/102 FT MSL. TREES BEGINNING 1524 FT FROM DER, 576 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/100 FT MSL. TREES BEGINNING 2001 FT FROM DER, 492 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/115 FT MSL. TREES BEGINNING 2055 FT FROM DER, 753 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/108 FT MSL. TREES BEGINNING 2120 FT FROM DER, 548 FT RIGHT OF CENTERLINE, UP TO 113 FT AGL/138 FT MSL. TREES BEGINNING 2210 FT FROM DER, 533 FT RIGHT OF CENTERLINE, UP TO 110 FT AGL/135 FT MSL. TREES BEGINNING 3496 FT FROM DER, 792 FT LEFT OF CENTERLINE, UP TO 122 FT AGL/139 FT MSL. TREES BEGINNING 4035 FT FROM DER, 774 FT LEFT OF CENTERLINE, UP TO 160 FT AGL/185 FT MSL. TREES BEGINNING 4203 FT FROM DER, 847 FT LEFT OF CENTERLINE, UP TO 123 FT AGL/153 FT MSL. TREES BEGINNING 4445 FT FROM DER, 838 FT LEFT OF CENTERLINE, UP TO 104 FT AGL/174 FT MSL. TREES BEGINNING 4541 FT FROM DER, 529 FT LEFT OF CENTERLINE, UP TO 99 FT AGL/159 FT MSL. TREES BEGINNING 5139 FT FROM DER, 20 FT RIGHT OF CENTERLINE, UP TO 161 FT MSL. TREE 6074 FT FROM DER, 34 FT LEFT OF CENTERLINE, 145 FT AGL/184 FT MSL.

NOTE: RWY 29, TREE 124 FT FROM DER, 505 FT RIGHT OF CENTERLINE, 20 FT AGL/35 FT MSL.

CONTROLLING OBSTACLES:

RWY 11: 180 KTS OR LESS: 1499 FT MSL AAO 565749.94N/1352020.87W (CLIMB GRADIENT), 1299 FT MSL AAO 565754.27N/1352018.82W (CLIMB-TO ALTITUDE). MORE THAN 180 KTS: 2556 FT MSL TERRAIN 565712.75N/1351929.12W.

RWY 29: 699 FT MSL AAO 570559.21N/1352701.47W (CLIMB GRADIENT), 599 FT MSL AAO 570549.95N/1352658.86W (CLIMB-TO ALTITUDE).

RWY 11, 29 (VCOA): 3547 FT MSL TREE 570332.42N/1351558.46W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 11, 29: 3547 FT MSL TREE 570332.42N/1351458.46W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: WARNING: HIGH TERRAIN ALL QUADRANTS, MT. EDGE CUMBE 3201 FT 13 NM SW OF SITKA AIRPORT.

REFERENCE MAGVAR: PASI 20E EPOCH YR: 2015, BKA VORTAC 20E EPOCH YEAR: 2015.



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BIORKA	FOUR	BAK4.BKA	THREE	11/13/2014	1 FEBRUARY 2018

CHART: HOLDING PATTERN AT BKA VORTAC, HOLD S, LT, 009.00 INBOUND.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
SITKA ROCKY GUTIERREZ	SITKA	AK

COMMUNICATIONS:

ZAN, SITKA, FSS, CTAF

FIXES AND/OR NAVAIDS:

REMARKS:

148 FT VEGETATION USED PER FPT.

RWY 11 180 KIAS OR LESS 390 FT PER NM CLIMB GRADIENT ON BIORKA THREE RAISED TO 410 TO CLEAR PENETRATIONS. THE OBSTACLE THAT PENETRATES A 400 FT PER NM CLIMB GRADIENT OBSTACLE EVALUATION AREA IS LOCATED IN RAPIDLY RISING TERRAIN ON THE NORTH SIDE OF MT. KINKADE AND IS LISTED AS THE RWY 11 (180 KIAS) CONTROLLING OBSTACLE. THE CLIMB-TO-ALTITUDE CONTROLLING OBSTACLE IS BASED ON THE HIGHEST TERRAIN AND AAO WITHIN THE OBSTACLE EVALUATION AREA BASED ON THE 410 CLIMB GRADIENT.

RWY 29 233 FT PER NM CLIMB GRADIENT REDUCES THE OBSTACLE EVALUATION AREA TO REMOVE THE 699 AAO OBSTACLE LISTED. THE HIGHEST OBSTACLE WITHIN THE OBSTACLE EVALUATION AREA IS A 599 AAO WHICH REQUIRES A CLIMB-TO-ALTITUDE OF 900 BUT 1000 RETAINED FROM THE BIORKA THREE DUE TO THE RISING TERRAIN.

PRECIPITOUS TERRAIN EVALUATION HAS BEEN COMPLETED.

QUALITY
3
CHECKED

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BIORKA	FOUR	BKA4.BKA	THREE	11/13/2014	1 FEBRUARY 2018

FLIGHT INSPECTED BY:

CHRISTOPHER D FORMAN
Digitally signed by
BEV L BORDY
Oct 18, 2017

OFFICE SYMBOL:

DATE:

FICO

06/27/2017

DEVELOPED BY:

BEV BORDY (CHRISTINE BAYSE)
Digitally signed by
BEV L BORDY
Oct 18, 2017

OFFICE SYMBOL:

DATE:

AJV-5433

03/15/2017

APPROVED BY:

PATRICK MULQUEEN
Digitally signed by
BEV L BORDY
Oct 18, 2017

OFFICE SYMBOL:

DATE:

AJV-5430

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZAN, AMGR, WESTERN FPT

CHANGES - REASONS:

1. REMOVED ALL REFERENCES OF SIT NDB- ORIGINAL SID MANGM CREATED TO SIT NDB PER APT/FPT REQUEST.
2. UPDATED VCOA INSTRUCTIONS FROM "OR FOR CLIMB IN VISUAL CONDITIONS: CROSS SITKA ROCKY GUTIERREZ AIRPORT AT OR ABOVE 3700 THEN CONTINUE CLIMB TO MEA FOR DIRECTION OF FLIGHT DIRECT BKA VORTAC OR SIT NDB. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE" TO " VCOA ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS SITKA ROCKY GUTIERREZ AIRPORT AT OR ABOVE 3800 THEN CLIMB DIRECT BKA VORTAC THENCE... ..CONTINUE CLIMB IN BKA VORTAC HOLDING PATTERN (HOLD S, LT, 009.00 INBOUND) TO CROSS BKA VORTAC AT OR ABOVE MEA FOR DIRECTION OF FLIGHT BEFORE PROCEEDING ON COURSE". -IAW 8260.46F.
3. UPDATED TAKEOFF MINIMUMS RWY 11 AND 29 VCOA CEILING AND VISIBILITY FROM "3800-3 FOR CLIMB IN VISUAL CONDITIONS" TO "3900-3 FOR CLIMB IN VISUAL CONDITIONS."- NEW CONTROLLING OBSTACLE.
4. UPDATED TAKEOFF OBSTACLE NOTES.- NEW SURVEY.
5. UPDATED CONTROLLING OBSTACLES.- NEW SURVEY/AMENDMENT.
6. ADDED CLIMB-IN-HOLDING AT BKA.- TO ENSURE 2000 FT ROC OVER TERRAIN TO THE NW (MT EDGE CUMBE) AND TO THE EAST.
7. ADDED CLIMB-IN-HOLDING PATTERN TO ADDITIONAL FLIGHT DATA.
8. ADDED REMARKS "RWY 11 180 KIAS OR LESS 390 FT PER NM CLIMB GRADIENT ON BIORKA THREE RAISED TO 410 TO CLEAR PENETRATIONS. THE OBSTACLE THAT PENETRATES A 400 FT PER NM CLIMB GRADIENT OBSTACLE EVALUATION AREA IS LOCATED IN RAPIDLY RISING TERRAIN ON THE NORTH SIDE OF MT. KINKADE AND IS LISTED AS THE RWY 11 (180 KIAS) CONTROLLING OBSTACLE. THE CLIMB-TO-ALTITUDE CONTROLLING OBSTACLE IS BASED ON THE HIGHEST TERRAIN AND AAO WITHIN THE OBSTACLE EVALUATION AREA BASED ON THE 410 CLIMB GRADIENT. RWY 29 233 FT PER NM CLIMB GRADIENT REDUCES THE OBSTACLE EVALUATION AREA TO REMOVE THE 699 AAO OBSTACLE LISTED. THE HIGHEST OBSTACLE WITHIN THE OBSTACLE EVALUATION AREA IS A 599 AAO WHICH REQUIRES A CLIMB-TO-ALTITUDE OF 900 BUT 1000 RETAINED FROM THE BIORKA THREE DUE TO THE RISING TERRAIN."- TO EXPLAIN THE REASON FOR THE CLIMB GRADIENT AND CLIMB-TO-ALTITUDE FOR RWY 11 AND 29.
9. UPDATED RWY 11 180 KTS OR LESS TAKEOFF MINIMUMS FROM "390 FT PER NM TO 1600" TO "410 FT PER NM TO 1900".- NEW CONTROLLING OBSTACLE.

10/16/17: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/15/17.

1. UPDATED RWY 11 FROM "CLIMBING RIGHT TURN HEADING 223 TO INTERCEPT BKA R-358 TO BKA VORTAC THENCE..." TO "CLIMBING RIGHT TURN HEADING 223.00 TO INTERCEPT BKA R-358 TO BKA VORTAC THENCE..."
2. ADDED IN REMARKS "PRECIPITOUS TERRAIN EVALUATION HAS BEEN COMPLETED".