

**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SUPERSEDED NUMBER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>
SWUNG	ONE	SPFSH1.SWUNG	NONE		8 NOVEMBER 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 checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 13: CLIMB HEADING 124.18 TO 4800, THEN LEFT TURN DIRECT ELRAP, THEN ON TRACK 321.97 TO SWUNG, THENCE ...

TAKEOFF RWY 31: CLIMB HEADING 304.19 TO 4500, THEN DIRECT DRACO, THEN ON TRACK 030.93 TO SWUNG, THENCE ...

...ON ASSIGNED ROUTE AND ALTITUDE.

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:

NOTE: RNAV 1

NOTE: GPS REQUIRED

TAKEOFF MINIMUMS:

RWY 4, 8, 22, 26: NA - ENVIRONMENTAL.

RWY 13: STANDARD WITH MINIMUM CLIMB OF 380 FT PER NM TO 4800.

RWY 31: 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 350 FT PER NM TO 4500.

TAKEOFF OBSTACLES NOTES:

NOTE: **RWY 13**, LIGHTING 9 FT FROM DER, 17 FT RIGHT OF CENTERLINE, 2 FT AGL/3897 FT MSL.

LIGHTING BEGINNING 9 FT FROM DER, 17 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/3897 FT MSL.

TERRAIN BEGINNING 185 FT FROM DER, 320 FT RIGHT OF CENTERLINE, UP TO 3904 FT MSL.

TERRAIN 338 FT FROM DER, 496 FT RIGHT OF CENTERLINE, 3905 FT MSL.

LIGHTING 487 FT FROM DER, 579 FT RIGHT OF CENTERLINE, 1 FT AGL/3909 FT MSL.

TERRAIN 562 FT FROM DER, 628 FT RIGHT OF CENTERLINE, 3911 FT MSL.

VEHICLE ON TRAVERSE WAY 1071 FT FROM DER, 480 FT RIGHT OF CENTERLINE, 3931 FT MSL.

NOTE: **RWY 31**, LIGHTING 9 FT FROM DER, 18 FT LEFT OF CENTERLINE, 2 FT AGL/3886 FT MSL.

LIGHTING 9 FT FROM DER, 17 FT RIGHT OF CENTERLINE, 2 FT AGL/3886 FT MSL.

TERRAIN BEGINNING 53 FT FROM DER, 356 FT LEFT OF CENTERLINE, UP TO 3918 FT MSL.

TERRAIN 142 FT FROM DER, 394 FT RIGHT OF CENTERLINE, 3897 FT MSL.

TERRAIN 192 FT FROM DER, 492 FT RIGHT OF CENTERLINE, 3902 FT MSL.

TERRAIN BEGINNING 328 FT FROM DER, 395 FT RIGHT OF CENTERLINE, UP TO 3907 FT MSL.

TERRAIN BEGINNING 346 FT FROM DER, 450 FT LEFT OF CENTERLINE, UP TO 3929 FT MSL.

TERRAIN 592 FT FROM DER, 641 FT LEFT OF CENTERLINE, 3942 FT MSL.

POLE, TERRAIN BEGINNING 734 FT FROM DER, 446 FT LEFT OF CENTERLINE, UP TO 9 FT AGL/3986 FT MSL.

TREE 1.1 NM FROM DER, 2402 FT RIGHT OF CENTERLINE, 4084 FT MSL.



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TREES, VEHICLE ON TRAVERSE WAY BEGINNING 1.2 NM FROM DER, 1993 FT RIGHT OF CENTERLINE, UP TO 4112 FT MSL.
TREES, TERRAIN, VEHICLE ON TRAVERSE WAY BEGINNING 1.2 NM FROM DER, 1883 FT RIGHT OF CENTERLINE, UP TO 4126 FT MSL.
TERRAIN, TREES BEGINNING 1.2 NM FROM DER, 1786 FT RIGHT OF CENTERLINE, UP TO 4155 FT MSL.
VEHICLE ON TRAVERSE WAY 1.3 NM FROM DER, 2624 FT RIGHT OF CENTERLINE, 4217 FT MSL.
TREES, TERRAIN BEGINNING 1.3 NM FROM DER, 744 FT RIGHT OF CENTERLINE, UP TO 4228 FT MSL.

CONTROLLING OBSTACLES:

RWY 13: 4566 FT MSL TREE (46-033015) 442613.46N/1034435.68W.

RWY 31: 4228 FT MSL TREE (46-031146) 443040.03N/1034843.48W (CLIMB GRADIENT), 4176 FT MSL TREE (46-030455) 443043.81N/1034846.17W (CEILING), 4084 FT MSL TREE (46-030943) 443034.02N/1034835.82W (VISIBILITY)

OBSTACLE MANDATING ODP ROUTE: RWY 13/31: 4443 FT MSL TREE (46-030406) 443044.51N/1034833.40W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: NOT CONDUCTED.

REFERENCE MAG VAR: KSPF 11E/ EPOCH YEAR: 1990

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
BLACK HILLS-CLYDE ICE FIELD (KSPF)	SPEARFISH	SD

COMMUNICATIONS:

AWOS: 118.325, UNICOM: 122.7 (CTAF), GND CON: 125.0, ELLSWORTH APP CON: 119.5, 259.1, GCO: 121.725.

FIXES AND/OR NAVAIDS:

REMARKS:

<u>FLIGHT INSPECTED BY:</u>	<i>Digitally signed by</i> DONALD H LANIER	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
BRYAN VEIT	Sep 26, 2018	FICO	08/29/2018
<u>DEVELOPED BY:</u>	<i>Digitally signed by</i> DONALD H LANIER	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
LONNIE EVERHART (SCOTT LINDHOLM)	Sep 26, 2018	AJV-5400	05/16/2018
<u>APPROVED BY:</u>	<i>Digitally signed by</i> DONALD H LANIER	<u>OFFICE SYMBOL:</u>	<u>DATE:</u>
LONNIE EVERHART	Sep 26, 2018	AJV-5400	



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SWUNG	ONE	SPFSH1.SWUNG	NONE		

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:

ZDV, ELLSWORTH APP CON, AMGR

CHANGES - REASONS:

09/19/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/04/18.

1. REMOVED "RWY31" FROM PAGE 2, LINE 5.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>EFFECTIVE DATE</u>
SWUNG		ONE		SPFSH1.SWUNG		NONE			
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW13 (AER)	442926.84N/1034749.27W	N							
4800 MSL					135.18				
ELRAP	443637.80N/1033805.28W	Y	FB	DF					LEFT TURN
SWUNG	444932.92N/1034721.24W	Y	FB	TF	332.97	14.51			SPFSH1.SWUNG
RW31 (AER)	442842.01N/1034647.048	N							
4500 MSL					315.19				
DRACO	443849.77N/1040053.85W	Y	FB	DF					RIGHT TURN
SWUNG	444932.92N/1034721.24W	Y	FB	TF	30.93	14.43			SPFSH1.SWUNG

