#### 06/17/2020

# 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 statue miles or feet RVR unless otherwise indicated.

DP NAME NUMBER **DP COMPUTER CODE** SUPERSEDED NUMBER DATED EFFECTIVE DATE SETHY FIVE SETHY5.SETHY FOUR 11/10/2016 09/10/2020 TYPE: OBSTACLE COPTER SID SPECIAL RNAV  $\times$  $\boxtimes$ 

### **DP ROUTE DESCRIPTION:**

TAKEOFF RWY 31: CLIMB HEADING 305.18 TO 2640, THEN LEFT TURN DIRECT SETHY, CROSS SETHY AT OR ABOVE 4000, THENCE ...

...ON TABER TRANSITION. MAINTAIN 6000. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL 10 MINUTES AFTER DEPARTURE

...ON AASTN TRANSITION. AT AASTN FLY HEADING 244.63 OR ASSIGNED BY ATC. MAINTAIN 6000. RADAR VECTORS WILL BE PROVIDED TO FILED ROUTE. EXPECT CLEARANCE TO FILED ALTITUDE/ FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

### TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	<u>TO</u> <u>FIX/NAVAID</u>	COURSE	DISTANCE	<u>MEA</u>	MOCA	CROSSING ALTITUDE/FIXES
AASTN	SETHY5.AASTN	SETHY	AASTN	TRACK 244.63	8.88	5200	4000	
TABER	SETHY5.TABER	SETHY MRUNN FUENT	MRUNN FUENT TABER	TRACK 159.84 TRACK 083.42 TRACK 128.82	6.75 13.70 9.26	5000 5300 6000	4000	

### PROCEDURAL DATA NOTES:

NOTE: GPS REQUIRED. NOTE: RNAV-1 NOTE: RADAR REQUIRED. NOTE: WHEN IN RADAR CONTACT, VECTORS WILL BE PROVIDED TO FILED / ASSIGNED ROUTE.

### TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS: RWY 13, NA - ATC. TAKEOFF MINIMUMS: RWY 31, STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 2640 THEN MINIMUM CLIMB OF 230 FT PER NM TO 4000.

### TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

## CONTROLLING OBSTACLES:

## LOST COMMUNICATIONS PROCEDURES:

# ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KBCB 8W EPOCH YR: 2020 CHART: TOP ALTITUDE: 6000 DME/DME ASSESSMENT: NOT CONDUCTED.



#### 06/17/2020

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 otherwise indicated Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated.									
DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMB		EFFECTIVE DATE				
SETHY	FIVE	SETHY5.SETHY	FOUR	11/10/2016	09/10/2020				
CHART: MINIMUM CROSSING ALTITUDE AT SETHY - AT OR ABOVE 4 CHART SPEED ICON MAXIMUM SPEED 220 KIAS AT SETHY	4000.								
AIRPORTS SERVED:									
AIRPORT NAME			CITY		<u>STATE</u>				
VIRGINIA TECH/MONTGOMERY EXECUTIVE		BLA	CKSBURG		VA				
COMMUNICATIONS:									
AWOS, CTAF, DEP CON, CLNC DEL									
FIXES AND/OR NAVAIDS:									
REMARKS:									
PRECIPITOUS TERRAIN ADJUSTMENT: MRUNN TO FUENT - 61'. FUE ENROUTE ROC REDUCTION OF 1500 ABOVE TERRAIN USED FOR S 220 SPEED RESTRICTION APPLIED TO TABER AND AASTN TRANSIT SECOND CLIMB GRADIENT OF 230 FT PER NM TO 4000 AND 4000 M	ETHY TO MRUNN SEGMENT AND TONS TO SHORTEN SEGMENT LE	NGTH AND REDUCE TURN			5200 MVA AT AASTN.				
FLIGHT INSPECTED BY:	Digita	lly signed by	OFFICE SYMBOL:	DATE:					
PENDING	JOH	IN BORDY							
	Jun	01, 2020							
DEVELOPED BY:	Digitally signed by		OFFICE SYMBOL:	DATE:					
ROBERT HAMILTON (AUSTIN GOTCHER)	JOHN BORDY		AJV-5422	09/14/2018					
	Jun 01, 2020								
APPROVED BY: Digitally signed by			OFFICE SYMBOL:	DATE:					
JULIE MORGAN			AJV-5420						
Jun 01, 2020									
COORDINATED WITH:									
A4A ALPA AOPA APA HAI NBAA									
					ALIX				
OTHER: ZTL, AMGR, ROA DEP CON.					م <sup>UAL</sup> /۲۲ 35				
CHANGES - REASONS: 1. RWY NUMBERS CHANGE FROM RWY 12 AND 30 TO 13 AND 31 N	MAGVAR CHANGING FROM 6W 19	85 TO 8W 2020.			CHECKED				

1. RWY NUMBERS CHANGE FROM RWY 12 AND 30 TO 13 AND 31. - MAGVAR CHANGING FROM 6W 1985 TO 8W 2020.

2. CHANGED DP ROUTE DESCRIPTION FROM "CLIMB HEADING 303.19 TO 2640, THEN LEFT TURN DIRECT SETHY, THENCE." TO "CLIMB HEADING 305.18 TO 2640, THEN LEFT TURN DIRECT SETHY, CROSS SETHY AT OR ABOVE 4000, THENCE." - MAGVAR UPDATE, NEW APPLICATION OF CRITERIA, AND ENSURES AIRCRAFT ACHIEVES MINIMUM CROSSING HEIGHT.



### 06/17/2020

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 statue miles or feet RVR unless otherwise indicated.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SETHY	FIVE	SETHY5.SETHY	FOUR	11/10/2016	
<ol> <li>CHANGED RADAR NOTE FROM "WHEN IN RADAR CONTACT EXPECT VECTORS TO ROUTE." - THE WORD "EXPECT" CANNOT BE USED IN REFERENCE TO RADAR VECT 4. REMOVED PULASKI PSK VORTAC PSK TO BE DECOMMISSIONED.</li> <li>REMOVED ROANOKE ROA VOR/DME AND WOODRUM ODR FROM FIXES AND/OR N 6. REPLACED PSK TRANSITION AND PSK VORTAC WITH FIX AASTN PSK TO BE DEC 7. MOVED SETHY AND MRUNN - REQUIRED TO MEET SEGMENT LEG LENGTH CRITE 8. SETHY TO MRUNN TRACK/DISTANCE CHANGED FROM 150.02/7.60 TO 159.84/6.75. REQUIRED LEG LENGTHS AND COORDINATED WITH ATC.</li> <li>RENAMED BEMAR FIX AS FUENT - ALLOW BEMAR FIX TO BE MOVED ON THE BEM 10. MRUNN TO FUENT (BEMAR FIX ON PREVIOUS AMDT) TRACK/DISTANCE CHANGE TOO SHORT; FIXES MOVED TO MEET REQUIRED LEG LENGTHS AND COORDINATED 11. FUENT (OLD BEMAR LOCATION) TO TABER TRACK CHANGED FROM 126.82 TO 126.02 TO</li></ol>	D FILED/ ASSIGNE ORS IAW 8260.46 IAVAIDS - FPT RE COMMISSIONED. RIA CHANGES IN - 8260.58A CHAN AR SID AND MAII D FROM 080.56/1 WITH ATC. 28.82 MAGVAR	ED ROUTE" TO "WHEN IN R. F, 1-1-6. EQUEST. I THE 8260.58A. IGES APPLIED RESULTING NTAIN THE NAME AS BEMA 10.74 TO 083.42/13.70 8260 UPDATE.	ADAR CONTACT, VECTORS W IN LEG LENGTHS THAT WERE R. 0.58A CHANGES APPLIED RES	ILL BE PROVIDED T	S MOVED TO MEET
<ol> <li>12. UPDATED DEPARTURE ROUTE DESCRIPTION. CHANGED FROM "VIA TRANSITION "ON TABER TRANSITION. MAINTAIN 6000. EXPECT CLEARANCE TO FILED ALTITUDI 244.63 OR ASSIGNED BY ATC. MAINTAIN 6000. RADAR VECTORS WILL BE PROVIDED DEPARTURE AASTN TRANSITION REQUIRES RADAR VECTORS AND TABER TRANSI 13. REMOVED PROCEDURAL DATA NOTE "AIRCRAFT ON TABER TRANSITION, DO NO AT SETHY" IN ADDITIONAL FLIGHT DATA 220 KIAS SPEED RESTRICTION APPLIED</li> </ol>	E/FLIGHT LEVEL TO FILED ROUT SITION DOES NO DT EXCEED 220K	10 MINUTES AFTER DEPAR E. EXPECT CLEARANCE TO T. UNTIL PASSING SETHY." A	RTURE" AND "ON AASTN TRA D FILED ALTITUDE/FLIGHT LEV ND REPLACED WITH "CHART	NSITION. AT AASTI EL WITHIN TEN (10) SPEED ICON MAXII	N FLY HEADING ) MINUTES AFTER MUM SPEED 220 KIAS
<ol> <li>ADDED 4000 MINIMUM ALTITUDE AT SETHY - 8260.46F. 2-1-1 D(3)(B).</li> <li>ADDED SECOND CLIMB GRADIENT AFTER LNAV ENGAGEMENT ALTITUDE CLIMB 16. REMOVED FROM REMARKS STATEMENT "USED 21 DEGREE BANK ANGLE AT SE BANK ANGLE UP TO 25 DEGREES (8260.58A, 1-2-1 C(3)(B)1.</li> <li>ADDED 5200 MEA FOR SETHY TO AASTN SEGMENT BASED ON OBSTACLE/TER 18. ADDED 5000 MEA FOR SETHY TO MRUNN SEGMENT BASED ON OBSTACLE/TER 19. MEA FOR MRUNN TO FUENT SEGMENT CHANGED FROM 5600 TO 5300 BASED 20. MEA FOR FUENT (BEMAR FIX ON PREVIOUS AMDT) TO TABER SEGMENT CHAGN 21. ADDED TO REMARKS: PRECIPITOUS TERRAIN ADJUSTMENT: MRUNN TO FUENT 22. ADDED TO REMARKS: PRECIPITOUS TERRAIN ADJUSTMENT: MRUNN TO FUENT 23. ADDED TO REMARKS: 220 SPEED RESTRICTION APPLIED TO TABER AND AASTN 24. ADDED TO REMARKS: SECOND CLIMB GRADIENT OF 230 FT PER NM TO 4000 AN REACH 5200 MVA AT AASTN.</li> <li>ADDED MOCA'S TO TRANSITION ROUTES: SETHY - AASTN: 4000, SETHY - MRUNN</li> </ol>	THY AND MRUNN RAIN EVALUATIC RRAIN EVALUATI ON OBSTACLE/T IED FROM 5600 T - 61'. FUENT TO ED FOR SETHY T TRANSITIONS D D 4000 MCA FOR	TO CALCULATE MINIMUM ON. ERRAIN EVALUATION. O 6000 BASED ON OBST/ TABER - 149'. O MRUNN SEGMENT AND S UE TO SHORTEN SEGMEN" OBSTACLE CLEARANCE IN	S LEG LENGTH BETWEEN SET ACLE/TERRAIN EVALUATION. SETHY TO AASTN SEGMENT. T LENGTH AND REDUCE TURN N THE SETHY TO AASTN SEGM	THY AND MRUNN - 8 N RADIUS DUE TO T MENT AND ENSURE	ERRAIN.
06/01/2020: THIS IS A UPDATED COPY OF THE FORM APPROVED ON 10/12/2018. 1. CHANGED EFFECTIVE DATES FROM 06/20/19 TO 09/10/2020. 2. ON 8260-15C, CHANGED EFFECTIVE DATE FROM 06/20/19 TO 09/10/2020. 3. ON 8260-15C, AASTN TRANSITION, REMOVED LEG TYPE 'VM' AND TRUE COURSE	'236.63'				

NFDD No. 117

## 06/17/2020

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE DEPARTURE (DATA RECORD)

DP NAME SETHY							NUMBER FIVE		OMPUTER CODE THY5.SETHY	SUPERSEDED NUMBER FOUR	<b>DATED</b> 11/10/2016	EFFECTIVE DATE 09/10/2020
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	LEG TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUI	DE	SPEED		REMARKS	
RWY31 (AER) 2640 MSL SETHY	371221.37N/0802413.28W - 371012.10N/0803325.43W	N - Y	- - FB	VA DF	- 297.18 -	- -	AT/ABOVE	4000	AT/BELOW 220K	CG 300 FT PER NM TO 20	640, THEN CG 230 F	T PER NM TO 4000
SETHY AASTN	371012.10N/0803325.43W 370518.46N/0804241.29W	Y Y		IF TF	236.63	- 8.88	AT/ABOVE	4000	AT/BELOW 220K	SETHY5.A	ASTN	
SETHY MRUNN FUENT TABER	371012.10N/0803325.43W 370414.49N/0802926.60W 370740.54N/0801251.81W 370255.04N/0800255.66W	Y Y Y Y	- FB FB FB	IF TF TF TF	- 151.84 75.42 120.82	- 6.75 13.70 9.26	AT/ABOVE	4000	AT/BELOW 220K	SETHY5.T	ABER	