

**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.
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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
TRSHA	ONE	TRSHA1.TRSHA	NONE		05 JAN 2017
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

PIEDMONT TRIAD INTL:

RWY 5L: CLIMB HEADING 053.98 TO 1440, THEN ON HEADING 053.98...THENCE
 RWY 5R: CLIMB HEADING 053.99 TO 1440, THEN ON HEADING 050.00...THENCE
 RWY 14: CLIMB HEADING 143.15 TO 1440, THEN ON HEADING 143.15...THENCE
 RWY 23L: CLIMB HEADING 234.00 TO 1440, THEN ON HEADING 270.00...THENCE
 RWY 23R: CLIMB HEADING 233.99 TO 1440, THEN ON HEADING 270.00...THENCE
 RWY 32: CLIMB HEADING 323.16 TO 1440, THEN ON HEADING 323.16...THENCE

SMITH REYNOLDS:

RWY 4: CLIMB HEADING 038.73 TO 1480, THEN ON HEADING 038.73...THENCE
 RWY 15: CLIMB HEADING 152.63 TO 1480, THEN ON HEADING 152.63...THENCE
 RWY 22: CLIMB HEADING 218.73 TO 1480, THEN ON HEADING 218.73...THENCE
 RWY 33: CLIMB HEADING 332.64 TO 1480, THEN ON HEADING 332.64...THENCE

...EXPECT RADAR VECTORS TO WHAYN, THEN ON TRACK 316.76 TO TRSHA, THEN ON ASSIGNED TRANSITION. MAINTAIN ALTITUDE ASSIGNED BY ATC. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN (10) MINUTES AFTER DEPARTURE.

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>
BAWDS	TRSHA1.BAWDS	TRSHA	RUFFN	TRACK 316.88	11.08	7400	5100	
		RUFFN	BAWDS	TRACK 316.41	5.00	8400	4000	
TAARZ	TRSHA1.TAARZ	TRSHA	GEEPS	TRACK 346.99	17.75	8700	5300	
		GEEPS	TAARZ	TRACK 347.50	5.34	9800	5500	

QUALITY
4
CHECKED

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TRSHA	ONE	TRSHA1.TRSHA	NONE		05 JAN 2017

PROCEDURAL DATA NOTES:**NOTE:** RNAV 1.**NOTE:** DME/DME/IRU OR GPS REQUIRED.**NOTE:** RADAR REQUIRED.**NOTE:** TRANSPONDER CODE WILL BE ISSUED VIA PDC OR GREENSBORO CLNC DEL.**NOTE:** IF UNABLE TO ACCEPT CLIMB RATES, ADVISE ATC ON INITIAL CONTACT.**TAKEOFF MINIMUMS:****PIEDMONT TRIAD INTL:**

RWY 5L, 5R, 14, 23L, 23R, 32, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1440.

SMITH REYNOLDS:

RWY 4, 15, 22, 33, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1480.

TAKEOFF OBSTACLES NOTES:**NOTE: RWY 5L**, TREES BEGINNING 1328 FT FROM DER, 524 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/912 FT MSL.**NOTE: RWY 5R**, TERRAIN AND TREES BEGINNING 3 FT FROM DER, 499 FT RIGHT OF CENTERLINE, UP TO 102 FT AGL/981 FT MSL. TREES 2751 FT FROM DER, 1191 FT LEFT OF CENTERLINE, 57 FT AGL/966 FT MSL.**NOTE: RWY 14**, POLE AND RAILROAD SIGNAL BEGINNING 937 FT FROM DER, 604 FT RIGHT OF CENTERLINE, UP TO 51 FT AGL/940 FT MSL.**NOTE: RWY 23L**, TREES BEGINNING 834 FT FROM DER, 719 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/934 FT MSL.**NOTE: RWY 23R**, TREES BEGINNING 1195 FT FROM DER, 191 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/970 FT MSL. UTILITY POLE 170 FT FROM DER, 540 FT LEFT OF CENTERLINE, 33 FT AGL/936 FT MSL. TREES BEGINNING 1715 FT FROM DER, 358 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/967 FT MSL.**NOTE: RWY 32**, TREES BEGINNING 1 FT FROM DER, 289 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/1019 FT MSL.**SMITH REYNOLDS:****NOTE: RWY 4**, MULTIPLE TREES BEGINNING 1014 FT FROM DER, 159 FT LEFT OF CENTERLINE, UP TO 92 FT AGL/1041 FT MSL. MULTIPLE TREES BEGINNING 2 FT FROM DER, 195 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/1051 FT MSL.**NOTE: RWY 15**, BUSH AND MULTIPLE TREES BEGINNING 109 FT FROM DER, 237 FT LEFT OF CENTERLINE, UP TO 81 FT AGL/960 FT MSL. MULTIPLE TREES BEGINNING 123 FT FROM DER, 433 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/945 FT MSL.**NOTE: RWY 22**, MULTIPLE TREES BEGINNING 376 FT FROM DER, 136 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/1014 FT MSL. ANTENNA 4538 FT FROM DER, 1044 FT LEFT OF CENTERLINE, 189 FT AGL/1138 FT MSL. TOWER 2.1 NM FROM DER, 2784 FT LEFT OF CENTERLINE, 468 FT AGL/1395 FT MSL. ANTENNA ON BUILDING 2.3 NM FROM DER, 3230 FT LEFT OF CENTERLINE, 460 FT AGL/1376 FT MSL.**NOTE: RWY 33**, FLOODLIGHT, MULTIPLE HANGARS, POLES, AND TREES BEGINNING 230 FT FROM DER, 41 FT LEFT OF CENTERLINE, UP TO 74 FT AGL/1083 FT MSL. POLE, WINDSOCK, MULTIPLE BUILDINGS AND TREES BEGINNING 13 FT FROM DER, 141 FT RIGHT OF CENTERLINE, UP TO 85 FT AGL/1084 FT MSL.**CONTROLLING OBSTACLES:****LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KGSO 8W EPOCH YEAR: 2020. DME/DME ASSESSMENT: SAT (RNP 2.0)

PIEDMONT TRIAD INTL - CHART: TOP ALTITUDE: ASSIGNED BY ATC**SMITH REYNOLDS - CHART:** TOP ALTITUDE: ASSIGNED BY ATC**CHART:** MEA/MOCA FROM WHAYN TO TRSHA, 5200/5100.

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TRSHA	ONE	TRSHA1.TRSHA	NONE		05 JAN 2017

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON WHAYN (IF), CW
FROM: POINT A (BEARING 272 DEGREES TO WHAYN)
TO: POINT B (BEARING 002 DEGREES TO WHAYN)
MINIMUM ALTITUDE: 4000

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
PIEDMONT TRIAD INTL (KGSO)	PIEDMONT TRIAD INTL (KGSO)	NC
SMITH REYNOLDS (KINT)	WINSTON-SALEM	NC

COMMUNICATIONS:

PIEDMONT TRIAD INTL: ATIS, CLNC DEL, GND CON, TOWER, GSO DEP CON
SMITH REYNOLDS: ATIS, GND CON, TOWER, GSO DEP CON.

FIXES AND/OR NAVAIDS:**REMARKS:**

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

FULL MOUNTAINOUS ROC APPLIED TO ALL OBSTACLES AND NO SECONDARY AREA REDUCTION TAKEN FOR DETERMINATION OF MOCA.



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TRSHA	ONE	TRSHA1.TRSHA	NONE		05 JAN 2017												
FLIGHT INSPECTED BY: <i>Digitally signed by</i> PATRICK J MULQUEEN CARL OESTERLE Nov 08, 2016			OFFICE SYMBOL: DATE: FICO 11/04/2016														
DEVELOPED BY: <i>Digitally signed by</i> DAN POWELL DAN POWELL Sep 03, 2016			OFFICE SYMBOL: DATE: AJV-5413 07/28/2016														
APPROVED BY: <i>Digitally signed by</i> PATRICK J MULQUEEN MARLON ROBINSON Nov 08, 2016			OFFICE SYMBOL: DATE: AJV-5410														
REQUIRED EFFECTIVE DATE: ROUTINE																	
COORDINATED WITH: <table style="width: 100%; text-align: center;"> <tr> <td>A4A</td> <td>ALPA</td> <td>AOPA</td> <td>APA</td> <td>HAI</td> <td>NBAA</td> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> </tr> </table>						A4A	ALPA	AOPA	APA	HAI	NBAA	☒	☒	☒	☒	☐	☒
A4A	ALPA	AOPA	APA	HAI	NBAA												
☒	☒	☒	☒	☐	☒												
OTHER: ZTL, GSO DEP CON/ATCT, AMGRS																	
CHANGES - REASONS: 1. ORIG - ATC REQUEST.																	

QUALITY
4
CHECKED

**FEDERAL AVIATION ADMINISTRATION
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DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
TRSHA							ONE	TRSHA1.TRSHA	NONE		05 JAN 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
PIEDMONT TRIAD INTL (KGSO)											
RW05L (AER)	360557.32N/0795732.58W	N	-	-	-	-					
1440 MSL	-	-	-	VA	045.98	-			CG 500 FT/NM TO 1440		
-	-	-	-	VM	045.98	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
RW05R (AER)	360527.81N/0795640.77W	N	-	-	-	-					
1440 MSL	-	-	-	VA	045.99	-			CG 500 FT/NM TO 1440		
-	-	-	-	VM	042.00	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
RW14 (AER)	360558.13N/0795708.81W	N	-	-	-	-					
1440 MSL	-	-	-	VA	135.15	-			CG 500 FT/NM TO 1440		
-	-	-	-	VM	135.15	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
RW23L (AER)	360636.51N/0795513.12W	N	-	-	-	-					
1440 MSL	-	-	-	VA	226.00	-			CG 500 FT/NM TO 1440		
-	-	-	-	VM	262.00	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
QUALITY 4 CHECKED											

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TRSHA		ONE		TRSHA1.TRSHA		NONE				05 JAN 2017	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW23R (AER)	360659.16N/0795613.70W	N	-	-	-	-					
1440 MSL	-	-	-	VA	225.99	-			CG 500 FT/NM TO 1440		
-	-	-	-	VM	262.00	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
RW32 (AER)	360513.40N/0795613.99W	N	-	-	-	-					
1440 MSL	-	-	-	VA	315.16	-			CG 500 FT/NM TO 1440		
-	-	-	-	VM	315.16	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
SMITH REYNOLDS (KINT)											
RW04 (AER)	360759.00N/0801344.91W	N	-	-	-	-					
1480 MSL	-	-	-	VA	030.73	-			CG 500 FT/NM TO 1480		
-	-	-	-	VM	030.73	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
RW15 (AER)*	360814.98N/0801330.52W*	N	-	-	-	-			*DISPL THLD (585 FEET)		
-	-	-	-	VA	144.63	-			CG 500 FT/NM TO 1480		
-	-	-	-	VM	144.63	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
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TRSHA							ONE	TRSHA1.TRSHA	NONE		05 JAN 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)		ALTITUDE	SPEED		REMARKS
RW22 (AER)	360832.47N/0801320.38W	N	-	-	-	-					
1480 MSL	-	-	-	VA	210.73	-					CG 500 FT/NM TO 1480
-	-	-	-	VM	210.73	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
RW33 (AER)	360726.04N/0801247.70W	N	-	-	-	-					
1480 MSL	-	-	-	VA	324.64	-					CG 500 FT/NM TO 1480
-	-	-	-	VM	324.64	-					
WHAYN	361705.39N/0802037.20W	Y	FB	DF	-	-					
WHAYN	361705.39N/0802037.20W	Y	-	IF	-	-					
TRSHA	362034.68N/0802559.56W	Y	FB	TF	308.76	5.57					
TRSHA	362034.68N/0802559.56W	Y	-	IF	-	-					TRSHA1.BAWDS
RUFFN	362732.19N/0803641.32W	Y	FB	TF	308.88	11.08					
BAWDS	363038.62N/0804132.79W	Y	FB	TF	308.41	5.00					
TRSHA	362034.68N/0802559.56W	Y	-	IF	-	-					TRSHA1.TAARZ
GEEPS	363710.10N/0803354.01W	Y	FB	TF	338.99	17.75					
TAARZ	364210.44N/0803613.46W	Y	FB	TF	339.50	5.34					

QUALITY
4
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