

**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SUPERSEDED NUMBER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>
TRICITIES	THREE	TRI3.TRI	TWO	10/12/2017	7 DEC 2017
<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 5: CLIMB HEADING 049.56 TO INTERCEPT GZG VOR/DME R-217 NORTHEAST BOUND TO 4200 BEFORE PROCEEDING ON COURSE.

TAKEOFF RWY 9: CLIMB HEADING 096.04 TO INTERCEPT GZG VOR/DME R-200 NORTHBOUND TO 5900 BEFORE PROCEEDING ON COURSE.

TAKEOFF RWY 23: CLIMB HEADING 229.58 TO 3600 BEFORE PROCEEDING ON COURSE.

TAKEOFF RWY 27: CLIMB HEADING 276.04 TO 3300 BEFORE PROCEEDING ON COURSE.

VCOA RWY 5, 23: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TRI-CITIES AIRPORT AT OR ABOVE 2500 THEN CLIMB TO 3500 VIA GZG VOR/DME R-217 NORTHEAST BOUND 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 5, STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 2500 OR 1100-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 9, 200-1 5/8 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 2000, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1500 FT PRIOR TO DER.

RWY 23, 200- 1 3/8 WITH MINIMUM CLIMB OF 220 FT PER NM TO 4300 OR STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 2300 OR 1100-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 27, 400- 2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 440 FT PER NM TO 2000.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 05, T-L TWR 678 FT FROM DER, 644 FT LEFT OF CENTERLINE, 50 FT AGL/1536 FT MSL. TREES BEGINNING 1590 FT FROM DER, 858 FT LEFT OF CENTERLINE, UP TO 1582 FT MSL. TREES BEGINNING 2338 FT FROM DER, 871 FT LEFT OF CENTERLINE, UP TO 1590 FT MSL. TREES BEGINNING 3175 FT FROM DER, 951 FT LEFT OF CENTERLINE, UP TO 1619 FT MSL. TREES BEGINNING 3584 FT FROM DER, 1038 FT LEFT OF CENTERLINE, UP TO 1626 FT MSL. TREES BEGINNING 3768 FT FROM DER, 819 FT LEFT OF CENTERLINE, UP TO 1736 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 514 FT LEFT OF CENTERLINE, UP TO 1770 FT MSL.

NOTE: RWY 09, TREES AND LT POLE BEGINNING 67 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 1584 FT MSL. TREES BEGINNING 182 FT FROM DER, 187 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1600 FT MSL. TREE 1.2 NM FROM DER, 1941 FT LEFT OF CENTERLINE, 1715 FT MSL.

NOTE: RWY 23, TREES BEGINNING 3538 FT FROM DER, 1309 FT RIGHT OF CENTERLINE, UP TO 1657 FT MSL. TREES BEGINNING 3865 FT FROM DER, 440 FT RIGHT OF CENTERLINE, UP TO 1665 FT MSL. TREES BEGINNING 5655 FT FROM DER, 353 FT LEFT OF CENTERLINE, UP TO 1634 FT MSL. TREES BEGINNING 1 NM FROM DER, 26 FT LEFT OF CENTERLINE, UP TO 1666 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 69 FT RIGHT OF CENTERLINE, UP TO 1675 FT MSL.

NOTE: RWY 27, TERRAIN, FENCES, POLES, T-L TWRS AND TREE BEGINNING 43 FT FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 1552 FT MSL. POLES, TANKS, LT POLES AND T-L TWR BEGINNING 244 FT FROM DER, 307 FT LEFT OF CENTERLINE, UP TO 1538 FT MSL. TRMSN TWRS, TREES AND POLE BEGINNING 636 FT FROM DER, 26 FT LEFT OF CENTERLINE, UP TO 1561 FT MSL. BLDGS BEGINNING 993 FT FROM DER, 162 FT RIGHT OF CENTERLINE, UP TO 1555 FT MSL. TREES BEGINNING 1157 FT FROM DER, 59 FT RIGHT OF CENTERLINE, UP TO 1558 FT MSL. TREES BEGINNING 1271 FT FROM DER, 121 FT RIGHT OF CENTERLINE, UP TO 1573 FT MSL. TREES BEGINNING 1449 FT FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 1575 FT MSL. TREES, POLES AND MONUMENTS BEGINNING 1548 FT FROM DER, 59 FT RIGHT OF CENTERLINE, UP TO 1577 FT MSL. TREES BEGINNING 1834 FT FROM DER, 33 FT RIGHT OF CENTERLINE, UP TO 1582 FT MSL. TREES BEGINNING 1882 FT FROM DER, 555 FT LEFT OF CENTERLINE, UP TO 1595 FT MSL. TREES BEGINNING 2043 FT FROM DER, 106 FT RIGHT OF CENTERLINE, UP TO 1632 FT MSL. TREES BEGINNING 2185 FT FROM DER, 357 FT LEFT OF CENTERLINE, UP TO 1604 FT MSL. POLES, TREES, T-L TWRS AND TERRAIN BEGINNING 2680 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/1649 FT MSL. TREES,

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T-L TWRS AND TERRAIN BEGINNING 3088 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 1645 FT MSL. TERRAIN AND T-L TWR BEGINNING 4150 FT FROM DER, 24 FT RIGHT OF CENTERLINE, UP TO 1663 FT MSL. TERRAIN AND BUSH BEGINNING 4151 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 1662 FT MSL. TERRAIN, TREES AND T-L TWR BEGINNING 4348 FT FROM DER, 59 FT RIGHT OF CENTERLINE, UP TO 1729 FT MSL. TERRAIN, TREE, BUSH BEGINNING 4349 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 1679 FT MSL. BUSH 4496 FT FROM DER, 202 FT LEFT OF CENTERLINE, 1681 FT MSL. TREES, TERRAIN, BUSHES AND POLE BEGINNING 4506 FT FROM DER, 7 FT LEFT OF CENTERLINE, UP TO 1726 FT MSL. POLE AND TREE BEGINNING 4664 FT FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/1735 FT MSL. TREES, TERRAIN, POLE BEGINNING 4714 FT FROM DER, 374 FT LEFT OF CENTERLINE, UP TO 1738 FT MSL. TREES BEGINNING 4725 FT FROM DER, 53 FT RIGHT OF CENTERLINE, UP TO 1736 FT MSL. TREES BEGINNING 4803 FT FROM DER, 127 FT LEFT OF CENTERLINE, UP TO 1771 FT MSL. TREES BEGINNING 4815 FT FROM DER, 87 FT LEFT OF CENTERLINE, UP TO 1782 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1789 FT RIGHT OF CENTERLINE, UP TO 1778 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1377 FT RIGHT OF CENTERLINE, UP TO 1795 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1435 FT RIGHT OF CENTERLINE, UP TO 1804 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1692 FT RIGHT OF CENTERLINE, UP TO 1806 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 1335 FT RIGHT OF CENTERLINE, UP TO 1822 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 1484 FT RIGHT OF CENTERLINE, UP TO 1823 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 964 FT RIGHT OF CENTERLINE, UP TO 1828 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 785 FT RIGHT OF CENTERLINE, UP TO 1838 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 588 FT RIGHT OF CENTERLINE, UP TO 1863 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 78 FT RIGHT OF CENTERLINE, UP TO 1867 FT MSL. TREES BEGINNING 1.8 NM FROM DER, 53 FT LEFT OF CENTERLINE, UP TO 1836 FT MSL. TREE 2 NM FROM DER, 1018 FT LEFT OF CENTERLINE, 1838 FT MSL.

CONTROLLING OBSTACLES:

RWY 05, 2179 FT MSL AAO 363053.54N/0822017.83W.

RWY 09, 1715 FT MSL TREE 362903.09N/0822209.80W.

RWY 23, 1665 FT MSL TREE 362737.24N/0822554.53W (CLIMB GRADIENT) 1675 FT MSL TREE 362705.61N/0822608.09W (CEILING/VISIBILITY), 5439 FT MSL AAO 360802.57N/0821750.28W (CLIMB GRADIENT/CLIMB-TO ALTITUDE).

RWY 27, 1782 FT MSL TREE 362833.22N/0822536.48W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 1867 FT MSL TREE 362848.80N/0822648.14W (CEILING), 1838 FT MSL TREE 362829.73N/0822710.62W (VISIBILITY).

VCOA: 2227 FT MSL TOWER 363120.88N/0822525.37W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 05, 09, 27 AND VCOA: 4519 FT MSL AAO 362609.79N/0820758.24W, RWY 23, 5439 FT MSL AAO 360802.57N/0821750.28W.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:****AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
TRI-CITIES	BRISTOL/JOHNSON/KINGSPORT	TN

COMMUNICATIONS:

ATIS, TRI-CITY APP CON, TRI-CITY TOWER, GND CON, UNICOM

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

RWY 23 CONTROLLING OBSTACLES: 370 CLIMB GRADIENT: 1665 FT MSL TREE 362737.24N/0822554.53W (CLIMB GRADIENT) 220 CLIMB GRADIENT: 1675 FT MSL TREE 362705.61N/0822608.09W (CEILING/VISIBILITY), 5439 FT MSL AAO 360802.57N/0821750.28W (CLIMB GRADIENT/CLIMB-TO ALTITUDE).

RETAINED PREVIOUSLY PUBLISHED DOCUMENTED VALUES FOR CLIMB-TO ALTITUDE FOR RWY 5 AND 9 AND CLIMB GRADIENT TERMINATION ALTITUDE OF 2000 FOR RWY 27.



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TRICITIES	THREE	TRI3.TRI	TWO	10/12/2017	7 DEC 2017
FLIGHT INSPECTED BY:					
CARL OESTERLE	<i>Digitally signed by</i> BEV L BORDY Aug 08, 2017		OFFICE SYMBOL: FICO	DATE: 8/3/17	
DEVELOPED BY:					
BEV BORDY (CHRISTINE BAYSE)	<i>Digitally signed by</i> BEV L BORDY Aug 08, 2017		OFFICE SYMBOL: AJV-5433	DATE: 05/05/2017	
APPROVED BY:					
PATRICK MULQUEEN	<i>Digitally signed by</i> BEV L BORDY Aug 08, 2017		OFFICE SYMBOL: AJV-5430	DATE:	
REQUIRED EFFECTIVE DATE: ROUTINE					
COORDINATED WITH:					
A4A	ALPA	AOPA	APA	HAI	NBAA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
OTHER:					
TRI APP CON, TRI ATCT, ARPT MGR, ZTL, EASTERN FPT					
CHANGES - REASONS:					
1. CHANGED DP ROUTE DESCRIPTION RWY 5 FROM "CLIMB LEFT HEADING 042.56 TO INTERCEPT GZG VOR/DME R-219 NORTHEAST BOUND..." TO "CLIMB HEADING 049.56 TO INTERCEPT GZG VOR/DME R-217 NORTHEAST BOUND..." - PER APT AND FPT REQUEST.					
2. CHANGED DP ROUTE DESCRIPTION RWY 23 FROM "CLIMB HEADING 227.57 TO INTERCEPT HNV VORTAC..." TO "CLIMB HEADING 229.58 TO 3600 BEFORE PROCEEDING ON COURSE" - HNV VORTAC 260 RADIAL UNUSABLE AND HNV ON THE VOR MON LIST.					
3. CHANGED TAKEOFF MINIMUMS RWY 5 FROM "STANDARD WITH A MINIMUM CLIMB OF 242 FT PER NM TO 2400" TO "STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 2500" - NEW CONTROLLING OBSTACLE.					
4. CHANGED TAKEOFF MINIMUMS RWY 9 FROM "300 - 1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 205 FT PER NM TO 1800, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT. TAKEOFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DER" TO "200-1 5/8 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 2000, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1500 FT PRIOR TO DER." - NEW CONTROLLING OBSTACLE.					
5. CHANGED TAKEOFF MINIMUMS RWY 23 FROM "300 - 1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 363 FT PER NM TO 1800" TO "200- 1 3/8 WITH MINIMUM CLIMB OF 220 FT PER NM TO 4300 OR STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 2300 OR 1100-3 FOR CLIMB IN VISUAL CONDITIONS" - NEW CONTROLLING OBSTACLES.					
6. CHANGED TAKEOFF MINIMUMS RWY 27 FROM "400 - 2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 525 FT PER NM TO 2000" TO "400 - 2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 440 FT PER NM TO 2000" - NEW CONTROLLING OBSTACLES.					
7. UPDATED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS - NEW SURVEY.					
8. UPDATED CONTROLLING OBSTACLES - NEW SURVEY/AMENDMENT.					
9. UPDATED AND MOVED VCOA INSTRUCTION FROM RWY 5 TO THEIR OWN LINE AND FROM " OR FOR CLIMB IN VISUAL CONDITIONS: CROSS TRI-CITIES RGNL TN/VA AIRPORT AT OR ABOVE 2500 THEN CLIMB TO 3600 VIA GZG VOR/DME R-219 NORTHEAST BOUND BEFORE PROCEEDING ON COURSE" TO "VCOA RWY 5, 23: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TRI-CITIES AIRPORT AT OR ABOVE 2500 THEN CLIMB TO 3500 VIA GZG VOR/DME R-217 NORTHEAST BOUND BEFORE PROCEEDING ON COURSE." - CHANGED RADIAL TO INTERCEPT AT GZG 2 DEGREES TO ALIGN MORE WITH RWY 5 RWY HEADING.					
10. REMOVED GZG VOR/DME FROM FIXES AND/OR NAVAIDS SECTION. - NOT REQUIRED BECAUSE IT IS IN THE TEXTUAL DESCRIPTION.					
11. ADDED REMARKS "RWY 23 CONTROLLING OBSTACLES: 370 CLIMB GRADIENT: 1665 FT MSL TREE 362737.24N/0822554.53W (CLIMB GRADIENT) 220 CLIMB GRADIENT: 1675 FT MSL TREE 362705.61N/0822608.09W (CEILING/VISIBILITY), 5439 FT MSL AAO 360802.57N/0821750.28W (CLIMB GRADIENT/CLIMB-TO ALTITUDE). RETAINED PREVIOUSLY PUBLISHED DOCUMENTED VALUES FOR CLIMB-TO ALTITUDE FOR RWY 5 AND 9 AND CLIMB GRADIENT TERMINATION ALTITUDE OF 2000 FOR RWY 27." - FPT AND ATC DID NOT REQUEST TO LOWER ALTITUDES.					

QUALITY

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