

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

CHANDLER:

TAKEOFF RWY 4L: CLIMB HEADING 037.62 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 4R: CLIMB HEADING 037.63 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 22L: CLIMB HEADING 217.64 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 22R: CLIMB HEADING 217.63 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO BNYRD, THEN ON TRACK 144.55 TO TFD VORTAC. THEN ON (TRANSITION), EXPECT FILED ALTITUDE 3 MINUTES AFTER DEPARTURE.

PHOENIX DEER VALLEY:

TAKEOFF RWY 25L: CLIMBING RIGHT TURN HEADING 320.00 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 25R: CLIMBING RIGHT TURN HEADING 320.00 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO BNYRD, THEN ON TRACK 144.55 TO TFD VORTAC. THEN ON (TRANSITION), EXPECT FILED ALTITUDE 3 MINUTES AFTER DEPARTURE.

GLENDALE MUNI:

TAKEOFF RWY 1: CLIMB HEADING 013.71 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 19: CLIMB HEADING 200.00 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO BNYRD, THEN ON TRACK 144.55 TO TFD VORTAC. THEN ON (TRANSITION), EXPECT FILED ALTITUDE 3 MINUTES AFTER DEPARTURE.

PHOENIX GOODYEAR:

TAKEOFF RWY 3: CLIMB HEADING 026.09 OR ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 21: CLIMB HEADING 225.00 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO BNYRD, THEN ON TRACK 144.55 TO TFD VORTAC. THEN ON (TRANSITION), EXPECT FILED ALTITUDE 3 MINUTES AFTER DEPARTURE.

PHOENIX-MESA GATEWAY:

TAKEOFF RWY 12L: CLIMB HEADING 123.57 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 12C: CLIMB HEADING 123.57 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 12R: CLIMB HEADING 123.56 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 30L: CLIMB HEADING 303.57 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 30C: CLIMB HEADING 303.58 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 30R: CLIMB HEADING 303.58 OR AS ASSIGNED BY ATC, THENCE...

... EXPECT RADAR VECTORS TO BNYRD, THEN ON TRACK 144.55 TO TFD VORTAC. THEN ON (TRANSITION), EXPECT FILED ALTITUDE 3 MINUTES AFTER DEPARTURE.

PHOENIX SKY HARBOR INTL:

TAKEOFF RWY 7L: CLIMB HEADING 078.04 TO 1640, THEN DIRECT SPRKY, THEN RIGHT TURN DIRECT ANZEL, THEN ON TRACK 180.59 TO DDUKE, THEN ON TRACK 199.04 TO BNYRD, THENCE...

TAKEOFF RWY 7R: CLIMB HEADING 078.03 TO 1640, THEN DIRECT SPRKY, THEN RIGHT TURN DIRECT ANZEL, THEN ON TRACK 180.59 TO DDUKE, THEN ON TRACK 199.04 TO BNYRD, THENCE...

TAKEOFF RWY 8: CLIMB HEADING 078.06 TO 1640, THEN DIRECT SPRKY, THEN RIGHT TURN DIRECT ANZEL, THEN ON TRACK 180.59 TO DDUKE, THEN ON TRACK 199.04 TO BNYRD, THENCE...

TAKEOFF RWY 25L: CLIMB HEADING 258.05 TO 1640, THEN CLIMBING LEFT TURN DIRECT DAVZZ, THEN ON TRACK 173.30 TO CROSS VANZZ AT/BELOW 8000, THEN LEFT TURN DIRECT BNYRD, THENCE...

TAKEOFF RWY 25R: CLIMB HEADING 258.06 TO 1640, THEN CLIMBING LEFT TURN DIRECT DAVZZ, THEN ON TRACK 173.30 TO CROSS VANZZ AT/BELOW 8000, THEN LEFT TURN DIRECT BNYRD, THENCE...

TAKEOFF RWY 26: CLIMB HEADING 258.08 TO 1640, THEN CLIMBING LEFT TURN DIRECT DAVZZ, THEN ON TRACK 173.30 TO CROSS VANZZ AT/BELOW 8000, THEN LEFT TURN

8260-15B
 1
 CHECKED

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DIRECT BNYRD, THENCE...

...ON TRACK 144.55 TO TFD VORTAC, THEN ON (TRANSITION). MAINTAIN 8000, EXPECT HIGHER ALTITUDE 3 MINUTES AFTER DEPARTURE.

SCOTTSDALE:

TAKEOFF RWY 3: CLIMBING LEFT TURN HEADING 335.00 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 21: CLIMBING RIGHT TURN HEADING 335.00 OR AS ASSIGNED BY ATC. THENCE...

...EXPECT RADAR VECTORS TO BNYRD, THEN ON TRACK 144.55 TO TFD VORTAC. THEN ON (TRANSITION), EXPECT FILED ALTITUDE 3 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
TUCSON	BNYRD2.TUS	TFD VORTAC	TUS VORTAC	TRACK 120.92	69.18	FL180	6800	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RNAV 1.

NOTE: TURBOJETS AND TURBOPROPS ONLY.

NOTE: RADAR REQUIRED.

KCHD, KDVT, KGEU, KGYR, KIWA, KSDL NOTE: GPS REQUIRED.

KPHX NOTE: DME/DME/IRU OR GPS REQUIRED.

KPHX NOTE: FOR NON-GPS EQUIPPED AIRCRAFT, IWA DME MUST BE OPERATIONAL.

TAKEOFF MINIMUMS:

CHANDLER:

RWY 4L/R, 22L/R: STANDARD.

PHOENIX DEER VALLEY:

RWY 7L/R: NA – OBSTACLES.

RWY 25L/R: STANDARD WITH MINIMUM CLIMB OF 370 FT/NM TO 4600.

GLENDAL MUNI:

RWY 1, 19: STANDARD.

PHOENIX GOODYEAR:

RWY 3, 21: STANDARD.

PHOENIX-MESA GATEWAY:

RWY 12L/C/R, 30L/C/R: STANDARD.

PHOENIX SKY HARBOR INTL:



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BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

RWY 7L/R, 8, 25L/R, 26: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1640, THEN MINIMUM CLIMB OF 220FT/NM TO 8500.

SCOTTSDALE:

RWY 3: STANDARD WITH MINIMUM CLIMB OF 445 FT/NM TO 4600.

RWY 21: STANDARD WITH MINIMUM CLIMB OF 300 FT/NM TO 4600.

TAKEOFF OBSTACLES NOTES:

CHANDLER:

NOTE: RWY 4L, TOWER 981 FT FROM DER, 615 FT LEFT OF CENTERLINE, 80 FT AGL/1319 FT MSL. TREES AND POLES BEGINNING 1100 FT FROM DER, 458 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/1272 FT MSL.

NOTE: RWY 4R, POLES BEGINNING 1298 FT FROM DER, 56 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/1283 FT MSL.

NOTE: RWY 22L, TREES BEGINNING 988 FT FROM DER, 756 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/1266 FT MSL.

NOTE: RWY 22R, BUILDING 30 FT FROM DER, 441 FT RIGHT OF CENTERLINE, 24 FT AGL/1254 FT MSL. VEHICLES BEGINNING 199 FT FROM DER, 271 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/1246 FT MSL. POLES AND TREES BEGINNING 471 FT FROM DER, 45 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/1290 FT MSL. TREES AND POLES BEGINNING 1088 FT FROM DER, 50 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/1274 FT MSL.

PHOENIX DEER VALLEY:

NOTE: RWY 25L, POLE 1127 FT FROM DER, 498 FT RIGHT OF CENTERLINE, 36 FT AGL/1475 FT MSL. POLE 1184 FT FROM DER, 495 FT LEFT OF CENTERLINE, 32 FT AGL/1471 FT MSL.

NOTE: RWY 25R, MULTIPLE ANTENNAS BEGINNING 1.4 NM FROM DER, 1847 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/1806 FT MSL.

GLENDALE MUNI:

NOTE: RWY 1, LIGHT ON BLAST FENCE 4 FT FROM DER, 130 FT LEFT OF CENTERLINE, UP TO 10 FT AGL/1088 FT MSL. TREES BEGINNING 124 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 30 FT AGL/1104 FT MSL. VEHICLES BEGINNING 299 FT FROM DER, 80 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/1091 FT MSL. POLES AND TREES BEGINNING 400 FT FROM DER, 197 FT RIGHT OF CENTERLINE, UP TO 75 FT AGL/1144 FT MSL.

NOTE: RWY 19, TREES BEGINNING 281 FT FROM DER, 331 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/1060 FT MSL.

PHOENIX GOODYEAR:

NOTE: RWY 3, VEHICLES ON ROAD BEGINNING 562 FT FROM DER, 525 FT LEFT OF CENTERLINE, UP 15 FT AGL/988 FT MSL. POLES BEGINNING 1007 FT FROM DER, 721 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/1015 FT MSL. TREES 1659 FT FROM DER, 551 FT RIGHT OF CENTERLINE, UP TO 49 FT AGL/1019 FT MSL.

NOTE: RWY 21, TRANSMISSION TOWER 2906 FT FROM DER, 1079 FT LEFT OF CENTERLINE, 125 FT AGL/1047 FT MSL. TRANSMISSION TOWER 3487 FT FROM DER, 312 FT LEFT OF CENTERLINE, 112 FT AGL/1031 FT MSL.

PHOENIX-MESA GATEWAY:

NOTE: RWY 30L/C/R, TREES BEGINNING 351 FT FROM DER, 351 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/1359 FT MSL. TREES BEGINNING 689 FT FROM DER, 398 FT RIGHT OF CENTERLINE, UP TO 20 FT AGL/1359 FT MSL.

PHOENIX SKY HARBOR INTL:

NOTE: RWY 7R, TRANSMISSION TOWERS AND POWER LINES, 3201 FT FROM DER, 1122 FT RIGHT OF CENTERLINE, UP TO 131 FT AGL/1260 FT MSL. NOTE: RWY 8, MULTIPLE LT POLES, BEGINNING 2539 FT FROM DER, 900 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/1234 FT MSL. LT POLE, 1639 FT FROM DER, 793 FT RIGHT OF CENTERLINE, 46 FT AGL/1177 FT MSL. NOTE: RWY 25L, MULTIPLE LT POLES, BEGINNING 681 FT FROM DER, 521 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/1166 FT MSL. SIGN, 902 FT FROM DER, 711 FT LEFT OF CENTERLINE, 64 FT AGL/1170 FT MSL. MULTIPLE LT POLES, BEGINNING 1519 FT FROM DER, 535 FT LEFT OF CENTERLINE, UP TO 99 FT AGL/1201 FT MSL. MULTIPLE LT POLES, BEGINNING 1919 FT FROM DER, 598 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/1192 FT MSL. NOTE: RWY 26, POLE, 42 FT FROM DER, 440 FT LEFT OF CENTERLINE, 26 FT AGL/1135 FT MSL. FENCE, 176 FT FROM DER, 547 FT LEFT OF CENTERLINE, 11 FT AGL/1120 FT MSL. POLE, 315 FT FROM DER, 499 FT LEFT OF CENTERLINE, 11 FT AGL/1120 FT MSL. TREE, 763 FT FROM DER, 642 FT LEFT OF CENTERLINE, 24 FT AGL/1135 FT MSL. POLE, 1959 FT FROM DER, 923 FT LEFT OF CENTERLINE, 59 FT AGL/1163 FT MSL. POLE, 2312 FT FROM DER, 318 FT LEFT OF CENTERLINE, 66 FT AGL/1169 FT MSL. POLE, 2336 FT FROM DER, 578 FT LEFT OF



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CENTERLINE, 67 FT AGL/1170 FT MSL. POLE, 78 FT FROM DER, 456 FT RIGHT OF CENTERLINE, 32 FT AGL/1142 FT MSL. POLE, 82 FT FROM DER, 64 FT RIGHT OF CENTERLINE, 18 FT AGL/1127 FT MSL. TREE, 118 FT FROM DER, 294 FT RIGHT OF CENTERLINE, 22 FT AGL/1133 FT MSL. TREE, 239 FT FROM DER, 214 FT RIGHT OF CENTERLINE, 22 FT AGL/1133 FT MSL. TREE, 414 FT FROM DER, 522 FT RIGHT OF CENTERLINE, 24 FT AGL/1135 FT MSL. SIGN, 520 FT FROM DER, 567 FT RIGHT OF CENTERLINE, 16 FT AGL/1125 FT MSL. POLE, 2301 FT FROM DER, 193 FT RIGHT OF CENTERLINE, 69 FT AGL/1171 FT MSL. POLE, 2302 FT FROM DER, 661 FT RIGHT OF CENTERLINE, 68 FT AGL/1171 FT MSL.

SCOTTSDALE:

NOTE: RWY 3, MULTIPLE LIGHT STANDARDS BEGINNING 63 FT FROM DER, 445 FT LEFT OF CENTERLINE, UP TO 44 FT AGL/1554 FT MSL. HOIST ON DIKE 878 FT FROM DER, 735 FT LEFT OF CENTERLINE, 51 FT AGL/1561 FT MSL. DIKE BEGINNING 1066 FT FROM DER, 316 FT LEFT OF CENTERLINE, 38 FT AGL/1548 FT MSL. DAY MARKER ON DIKE 1230 FT FROM DER, 5 FT LEFT OF CENTERLINE, 39 FT AGL/1549 FT MSL. TREE 765 FT FROM DER, 115 FT LEFT OF CENTERLINE, 22 FT AGL/1532 FT MSL. ROAD BEGINNING 647 FT FROM DER, 296 FT LEFT OF CENTERLINE, 19 FT AGL/1529 FT MSL. FENCE BEGINNING 5 FT FROM DER, 338 FT RIGHT OF CENTERLINE, 6 FT AGL/1511 FT MSL. LIGHT STANDARD 1013 FT FROM DER, 430 FT RIGHT OF CENTERLINE, 44 FT AGL/1552 FT MSL.

NOTE: RWY 21, TREES 1072 FT FROM DER, 426 FT RIGHT OF CENTERLINE, 53 FT AGL/1497 FT MSL. BUILDING 316 FT FROM DER, 537 FT RIGHT OF CENTERLINE, 23 FT AGL/1467 FT MSL. TREE 2087 FT FROM DER, 418 FT LEFT OF CENTERLINE, 61 FT AGL/1505 FT MSL. TREE 1432 FT FROM DER, 438 FT RIGHT OF CENTERLINE, 38 FT AGL/1482 FT MSL. TREE 2234 FT FROM DER, 559 FT LEFT OF CENTERLINE, 58 FT AGL/1502 FT MSL.

CONTROLLING OBSTACLES:

SCOTTSDALE:

RWY 3: 3039 FT MSL AAO 334147.51 N/1115119.13W (CG) AND 3639 FT MSL AAO 334854.37N/1115628.61W (CTA)

PHOENIX DEER VALLEY:

RWY 25L/R: 2479 FT MSL AAO 334504.94N/1120513. 74W (CG) AND 4159 FT MSL AAO 334109.72N/1114920.69W (CTA)

PHOENIX SKY HARBOR INTL:

RWY 26: 1599 FT MSL BUILDING 332650.76N/1120424.48W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KPHX 12E EPOCH YR: 2000
 DME/DME/IRU ASSESSMENT: SAT (RNP 2.0)

PILOT NAVIGATION AREA:

7NM ARC CENTERED ON BNYRD (IF), CW
 FROM: POINT A (BEARING 099.56 TO BNYRD)
 TO: POINT B (BEARING 189.56 TO BNYRD)
 MINIMUM ALTITUDE: 8500

CHART: MEA/MOCA FROM BNYRD TO TFD VORTAC 10000/3700



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AIRPORTS SERVED:

PHOENIX SKY HARBOR INTL, PHOENIX, AZ
PHOENIX-MESA GATEWAY, MESA, AZ
CHANDLER MUNI, CHANDLER, AZ
PHOENIX GOODYEAR, GOODYEAR, AZ

SCOTTSDALE, SCOTTSDALE, AZ
GLENDALE MUNI, GLENDALE, AZ
PHOENIX DEER VALLEY, PHOENIX, AZ

COMMUNICATIONS:

CHANDLER MUNI:
ATIS, GND CON, CHD ATCT, PHOENIX DEP CON

PHOENIX DEER VALLEY:
ATIS, CLNC DEL, GND CON, DVT ATCT, PHOENIX DEP CON

GLENDALE MUNI:
ATIS, GND CON, GEU ATCT, PHOENIX DEP CON, LUKE DEP CON

PHOENIX GOODYEAR:
ATIS, GND CON, GYR ATCT, PHOENIX DEP CON, LUKE DEP CON

PHOENIX-MESA GATEWAY:
ATIS, CLNC DEL, GND CON, IWA ATCT, PHOENIX DEP CON

PHOENIX SKY HARBOR INTL:
ATIS, CLNC DEL, GND CON, PHX ATCT, PHOENIX DEP CON

SCOTTSDALE:
ATIS, CLNC DEL, GND CON, SDL ATCT, PHOENIX DEP CON

FIXES AND/OR NAVAIDS:

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REMARKS:

PROCEDURE NAMED BNYRD SINCE PROCEDURES WITH STANFIELD, TUCSON AND PHOENIX ALREADY EXIST. ATC REQUEST BNYRD DUE TO GEOGRAPHICAL PROXIMITY TO AN AIRCRAFT BONEYARD NEAR FIX BNYRD.

KPHX CLIMB GRADIENTS AND CLIMB TO ALTITUDES DETERMINED BY DME/DME COVERAGE FOR NON-GPS EQUIPPED AIRCRAFT.

KDVT RWY 25L/R AND KSDL RWY 21 CLIMB GRADIENTS AND CLIMB TO ALTITUDE DETERMINED BY LOCATION OF 4600 MVA AND PROXIMITY TO HIGHER MVAS.

KSDL: ATC WILL ASSIGN HEADING 335 OR AS ASSIGNED IN ACCORDANCE WITH DVA DATED 6/23/2014.

KDVT: ATC WILL ASSIGN HEADING 320 OR AS ASSIGNED IN ACCORDANCE WITH DVA DATED 6/30/2014.

SATELLITE AIRPORTS WERE MADE GPS REQUIRED DUE TO A HIGH PNA GRID ANALYSIS ALTITUDE ON SOME OF THE PNA SIDS. ELIMINATING THE PNA DME/DME/IRU GRID ANALYSIS REDUCED THE PNA ALTITUDE TO A MANAGABLE VECTORING ALTITUDE. KPHX RETAINED DME/DME/IRU OPERATIONS DUE TO HAVING A DEFINED ROUTE TO THE IDF AND DUE TO APPROXIMATELY 20 PERCENT OF THE DEPARTURES UTILIZING DME/DME/IRU NAVIGATION.

KGEU RWY 19 AND KGYR RWY 21 UTILIZE A HEADING FOR DEPARTURES WITHIN THE DVA RANGE FOR EACH RUNWAY WHICH IS CLOSEST TO THE RUNWAY ALIGNMENT SINCE THE RUNWAY ALIGNMENT IS NOT WITHIN THE USABLE DVA RANGE FOR VECTORING AIRCRAFT.

CHANGES:

1. ADDED DP ROUTE DESCRIPTION FOR KDVT RWYS 25L/R, KGEU RWY 19, KGYR RWY 3, KSDL RWY 3.
2. ADDED KDVT TO LIST OF GPS REQUIRED AIRPORTS.
3. ADDED TAKEOFF MINIMUMS FOR: KDVT RWYS 25L/R, KGEU RWY 19, KGYR RWY 3, KSDL RWY 3.
4. REMOVED TAKEOFF OBSTACLE NOTES FOR KFFZ RWYS 4L/R.
5. ADDED TAKEOFF OBSTACLE NOTES FOR: KDVT RWYS 25L/R, KGEU RWY 19, KGYR RWY 3, KSDL RWY 3.
6. ADDED CONTROLLING OBSTACLES FOR KDVT RWYS 25L/R, KSDL RWY 3.
7. ADDED AIRPORTS SERVED: KDVT.
8. ADDED COMMUNICATIONS FOR: KDVT.
9. REMOVED FALCON FIELD FROM CHARTING.



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REASONS:

- 1-3, 5-8. ADDITION OF DVAS AT KSDL AND KDVT AND AMENDMENT OF ODPS AT KGEU AND KGYR ALLOWED FOR ADDITIONAL RUNWAYS TO BE USED FOR DEPARTURES.
4. KFFZ TAKEOFF OBSTACLE NOTES WERE PREVIOUSLY PUBLISHED FOR RWYS 4L/R WHICH ARE NA FOR DEPARTURES.
9. ATC REQUEST TO NOT SERVE AIRPORTS THAT CAN ONLY DEPART IN ONE DIRECTION.



DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date	
BNYRD RNAV		TWO		BNYRD2.BNYRD			ONE		9/18/2014	13 NOV 2014	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW07L (AER)	332551.81N/1120137.56W	-	-	-	-	-					
1640 MSL	-	-	-	VA	090.04	-			CG 500 FT/NM TO 1640		
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-			CG 220 FT/NM TO 8500		
ANZEL	332136.11N/1114759.46W	Y	FB	DF	-	6.45			RIGHT TURN		
DDUKE	330918.96N/1115115.19W	Y	FB	TF	192.59	12.56					
BNYRD	325953.24N/1115759.15W	Y	FB	TF	211.04	10.98					
RW07R (AER)	332543.89N/1120137.57W	-	-	-	-	-					
1640 MSL	-	-	-	VA	090.03	-			CG 500 FT/NM TO 1640		
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-			CG 220 FT/NM TO 8500		
ANZEL	332136.11N/1114759.46W	Y	FB	DF	-	6.45			RIGHT TURN		
DDUKE	330918.96N/1115115.19W	Y	FB	TF	192.59	12.56					
BNYRD	325953.24N/1115759.15W	Y	FB	TF	211.04	10.98					
RW08 (AER)*	332627.09N/1120136.66W*	-	-	-	-	-			*DISPL THLD (898 FT)		
1640 MSL	-	-	-	VA	090.06	-			CG 500 FT/NM TO 1640		
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-			CG 220 FT/NM TO 8500		
ANZEL	332136.11N/1114759.46W	Y	FB	DF	-	6.45			RIGHT TURN		
DDUKE	330918.96N/1115115.19W	Y	FB	TF	192.59	12.56					
BNYRD	325953.24N/1115759.15W	Y	FB	TF	211.04	10.98					
RW25L (AER)	332543.84N/1120005.54W	-	-	-	-	-					
1640 MSL	-	-	-	VA	270.05	-			CG 500 FT/NM TO 1640		
DAVZZ	332247.37N/1120827.00W	Y	FB	DF	-	-			CG 220 FT/NM TO 8500, LEFT TURN		
VANZZ	331935.44N/1120848.22W	Y	FO	TF	185.30	3.21	AT/BELOW 8000				
BNYRD	325953.24N/1115759.15W	Y	FB	DF		21.66			LEFT TURN		
RW25R (AER)	332551.73N/1115936.05W	-	-	-	-	-					
1640 MSL	-	-	-	VA	270.06	-			CG 500 FT/NM TO 1640		
DAVZZ	332247.37N/1120827.00W	Y	FB	DF	-	-			CG 220 FT/NM TO 8500, LEFT TURN		
VANZZ	331935.44N/1120848.22W	Y	FO	TF	185.30	3.21	AT/BELOW 8000				
BNYRD	325953.24N/1115759.15W	Y	FB	DF	-	21.66			LEFT TURN		

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BNYRD RNAV		TWO		BNYRD2.BNYRD		ONE		9/18/2014	13 NOV 2014
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW26 (AER)	332626.96N/1115931.69W	-	-	-	-	-			
1640 MSL	-	-	-	VA	270.08	-			CG 500 FT/NM TO 1640
DAVZZ	332247.37N/1120827.00W	Y	FB	DF	-	-			CG 220 FT/NM TO 8500, LEFT TURN
VANZZ	331935.44N/1120848.22W	Y	FO	TF	185.30	3.21	AT/BELOW 8000		
BNYRD	325953.24N/1115759.15W	Y	FB	DF	-	21.66			LEFT TURN
BNYRD	325953.24N/1115759.15W	Y	-	IF	-	-			
TFD VORTAC	325309.08N/1115431.44W	Y	FB	TF	156.55	7.33			
TFD VORTAC	325309.08N/1115431.44W	Y	-	IF	-	-			BNYRD2.TUS
TUS VORTAC	320542.73N/1105453.48W	Y	FB	TF	132.92	69.18			

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

[illegible]

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	BNYRD	010		IF		FB					
	ALL	TFD	020		TF		FB					
	TUS	TFD	010		IF		FB					
	TUS	TUS	020		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TFD	N325309.08	W1115431.44	N3253.151	W11154.524
	TUS	N320542.73	W1105453.48	N3205.712	W11054.891
	BNYRD	N325953.24	W1115759.15	N3259.887	W11157.986
	RW04L	N331550.81	W1114911.83	N3315.847	W11149.197
	RW04R	N331556.61	W1114850.99	N3315.944	W11148.850
	RW22L	N331627.81	W1114807.29	N3316.464	W11148.122
	RW22R	N331619.01	W1114832.35	N3316.317	W11148.539

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04L	01231	40
	RW04R	01236	37
	RW22L	01243	42
	RW22R	01236	40



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC PACKET - 424-18 - SID

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAD	TFD	K2011480VTH	N32530908W111543144	N32530908W111543144E0120013162	NARSTANFIELD								
SUSAD	TUS	K2011600VTHA	N32054273W110545348	N32054273W110545348E0120026712	NARTUCSON								
WP	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAE	BNYRD	K20	W	N32595324W111575915	E0105	NAR	BNYRD						
AIRPORT	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KDVT	K2ADVT	0	081YHN33411790W112045720E012001478	18000	18000C	MNAR	PHOENIX DEER VALLEY					
SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KDVT	K2DBNYRD24RW25B	010BNYRDK2EA0E	IF	18000								
SUSAP	KDVT	K2DBNYRD24RW25B	020TFD K2D OVE	TF									
SUSAP	KDVT	K2DBNYRD26TUS	010TFD K2D OV	IF	18000								
SUSAP	KDVT	K2DBNYRD26TUS	020TUS K2D OVE	TF									
RUNWAY	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KDVT	K2GRW25L	0081962540 N33411761W112042063-0500	+0420201475091540100R									
SUSAP	KDVT	K2GRW25R	0044992540 N33412407W112042890-0500	+0420701477000047075V									



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW25B	BNYRD	010		IF		FB					
	RW25B	TFD	020		TF		FB					
	TUS	TFD	010		IF		FB					
	TUS	TUS	020		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TFD	N325309.08	W1115431.44	N3253.151	W11154.524
	TUS	N320542.73	W1105453.48	N3205.712	W11054.891
	BNYRD	N325953.24	W1115759.15	N3259.887	W11157.986
	RW25L	N334117.61	W1120420.63	N3341.294	W11204.344
	RW25R	N334124.07	W1120428.90	N3341.401	W11204.482

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW25L	01475	40
	RW25R	01477	47



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	BNYRD	010		IF		FB					
	ALL	TFD	020		TF		FB					
	TUS	TFD	010		IF		FB					
	TUS	TUS	020		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TFD	N325309.08	W1115431.44	N3253.151	W11154.524
	TUS	N320542.73	W1105453.48	N3205.712	W11054.891
	BNYRD	N325953.24	W1115759.15	N3259.887	W11157.986
	RW01	N333111.26	W1121757.19	N3331.188	W11217.953
	RW19	N333159.83	W1121729.27	N3331.997	W11217.488

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW01	01043	40
	RW19	01065	55



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC PACKET - 424-18 - SID

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAD	TFD	K2011480VTH	N32530908W111543144		N32530908W111543144E0120013162				NARSTANFIELD			
	SUSAD	TUS	K2011600VTHA	N32054273W110545348		N32054273W110545348E0120026712				NARTUCSON			
WP	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAE	BNYRD	K20	W	N32595324W111575915			E0105	NAR		BNYRD		
AIRPORT	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KGYRK2AGYR	0	085YHN33252620W112222910E013000971			1800018000C	MNAR		PHOENIX	GOODYEAR		
SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KGYRK2DBNYRD25ALL	010BNYRDK2EA0E	IF						18000			
	SUSAP	KGYRK2DBNYRD25ALL	020TFD K2D OVE	TF									
	SUSAP	KGYRK2DBNYRD26TUS	010TFD K2D 0V	IF						18000			
	SUSAP	KGYRK2DBNYRD26TUS	020TUS K2D OVE	TF									
RUNWAY	1	2	3	4	5	6	7	8	9	0	1	2	3
	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KGYRK2GRW03	0085000251 N33245306W112230005+0281			+0257300944000045150R							
	SUSAP	KGYRK2GRW21	00850002051 N33254289W112221347-0281			+0262800962210045150V							



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	BNYRD	010		IF		FB					
	ALL	TFD	020		TF		FB					
	TUS	TFD	010		IF		FB					
	TUS	TUS	020		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TFD	N325309.08	W1115431.44	N3253.151	W11154.524
	TUS	N320542.73	W1105453.48	N3205.712	W11054.891
	BNYRD	N325953.24	W1115759.15	N3259.887	W11157.986
	RW03	N332453.06	W1122300.05	N3324.884	W11223.001
	RW21	N332542.89	W1122213.47	N3325.715	W11222.225

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW03	00944	45
	RW21	00962	45



DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	BNYRD	010		IF		FB					
	ALL	TFD	020		TF		FB					
	TUS	TFD	010		IF		FB					
	TUS	TUS	020		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TFD	N325309.08	W1115431.44	N3253.151	W11154.524
	TUS	N320542.73	W1105453.48	N3205.712	W11054.891
	BNYRD	N325953.24	W1115759.15	N3259.887	W11157.986
	RW12C	N331903.41	W1113957.32	N3319.057	W11139.955
	RW12L	N331903.32	W1113940.73	N3319.055	W11139.679
	RW12R	N331903.61	W1114022.32	N3319.060	W11140.372
	RW30C	N331751.34	W1113833.19	N3317.856	W11138.553
	RW30L	N331750.14	W1113856.53	N3317.836	W11138.942
	RW30R	N331757.61	W1113824.03	N3317.960	W11138.401

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW12C	01348	50
	RW12L	01356	74
	RW12R	01340	45
	RW30C	01380	49
	RW30L	01374	55
	RW30R	01384	75



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

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DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

[illegible]

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW07B		010		VA		FB		078.0 ()		AA 01640	
	RW07B	SPRKY	020		DF		FO					
	RW07B	ANZEL	030		DF		FB					
	RW07B	DDUKE	040		TF		FB					
	RW07B	BNYRD	050		TF		FB					
	RW08		010		VA		FB		078.1 ()		AA 01640	
	RW08	SPRKY	020		DF		FO					
	RW08	ANZEL	030		DF		FB					
	RW08	DDUKE	040		TF		FB					
	RW08	BNYRD	050		TF		FB					
	RW25B		010		VA		FB		258.1 ()		AA 01640	
	RW25B	DAVZZ	020		DF		FB					
	RW25B	VANZZ	030		TF		FO				AB 08000	
	RW25B	BNYRD	040		DF		FB					
	RW26		010		VA		FB		258.1 ()		AA 01640	
	RW26	DAVZZ	020		DF		FB					
	RW26	VANZZ	030		TF		FO				AB 08000	
	RW26	BNYRD	040		DF		FB					
		BNYRD	010		IF		FB					
		TFD	020		TF		FB					
	TUS	TFD	010		IF		FB					
	TUS	TUS	020		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TFD	N325309.08	W1115431.44	N3253.151	W11154.524
	TUS	N320542.73	W1105453.48	N3205.712	W11054.891
	ANZEL	N332136.11	W1114759.46	N3321.602	W11147.991
	BNYRD	N325953.24	W1115759.15	N3259.887	W11157.986
	DAVZZ	N332247.37	W1120827.00	N3322.790	W11208.450
	DDUKE	N330918.96	W1115115.19	N3309.316	W11151.253
	SPRKY	N332609.01	W1115327.82	N3326.150	W11153.464
	VANZZ	N331935.44	W1120848.22	N3319.591	W11208.804
	RW07L	N332551.81	W1120137.56	N3325.864	W11201.626
	RW07R	N332543.89	W1120137.57	N3325.732	W11201.626
	RW08	N332627.09	W1120136.66	N3326.452	W11201.611
	RW25L	N332543.84	W1120005.54	N3325.731	W11200.092
	RW25R	N332551.73	W1115936.05	N3325.862	W11159.601
	RW26	N332626.96	W1115931.69	N3326.449	W11159.528

RUNWAY DATA	THRESHOLD
RWY	ELEVATION TCH



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

RW07L	01110	57
RW07R	01111	57
RW08	01113	55
RW25L	01126	44
RW25R	01134	55
RW26	01135	55

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

[illegible]

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNYRD	TWO	BNYRD2.BNYRD	ONE	9/18/2014	13 NOV 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	BNYRD	010		IF		FB					
	ALL	TFD	020		TF		FB					
	TUS	TFD	010		IF		FB					
	TUS	TUS	020		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TFD	N325309.08	W1115431.44	N3253.151	W11154.524
	TUS	N320542.73	W1105453.48	N3205.712	W11054.891
	BNYRD	N325953.24	W1115759.15	N3259.887	W11157.986
	RW03	N333658.28	W1115505.71	N3336.971	W11155.095
	RW21	N333748.88	W1115407.32	N3337.815	W11154.122

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW03	01448	60
	RW21	01507	60

QUALITY
15
CHECKED