

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

NFDD 165

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ERRTH	SIX	ERRTH6.ERRTH	FIVE	30 APR 15	15 OCT 2015

TYPE: SID

DP ROUTE DESCRIPTION:

DEPARTING DETROIT METROPOLITAN WAYNE COUNTY: TAKE-OFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO INTERCEPT DXO VOR/DME R-095 TO OCTAS THEN ON YQG R-101 TO ERRTH. WHEN THE ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) MINUTES AFTER DEPARTURE.

DEPARTING ANN ARBOR MUNI: TAKE-OFF RUNWAYS 6/24: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO JOIN THE ASSIGNED SID. MAINTAIN 3000, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) MINUTES AFTER DEPARTURE.

DEPARTING OAKLAND COUNTY INTL: TAKE-OFF RUNWAYS 9L/R AND 27L/R: CLIMB VIA ASSIGNED HEADING FOR RADAR VECTORS TO JOIN THE ASSIGNED SID. MAINTAIN 3000, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) MINUTES AFTER DEPARTURE.

DEPARTING COLEMAN A. YOUNG MUNI: TAKE-OFF RUNWAY 33: CLIMB HEADING 328.33 TO 1800 BEFORE TURNING LEFT EXPECT RADAR VECTORS TO JOIN THE ASSIGNED SID. MAINTAIN 3000, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) MINUTES AFTER DEPARTURE. **TAKE-OFF ALL OTHER RUNWAYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO JOIN THE ASSIGNED SID. MAINTAIN 3000, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) MINUTES AFTER DEPARTURE.

DEPARTING WILLOW RUN: TAKE-OFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO JOIN THE ASSIGNED SID. MAINTAIN 3000, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) 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
KEATING	ERRTH6.ETG	ERRTH INT	CXR VOR/DME	144.60	53.17	8000	2700	
		CXR VOR/DME	MIGET INT	101.56 & 108.56 (CXR R-102 & ETG R-289)	104.64	FL180		
		MIGET INT	ETG VORTAC	108.56 (ETG R-289)	33.00	FL180		
CHARDON	ERRTH6.CXR	ERRTH INT	CXR VOR/DME	144.60	53.17	8000	2700	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME REQUIRED.

NOTE: RADAR REQUIRED

SPECIAL INSTRUCTIONS:

DETROIT METROPOLITAN WAYNE COUNTY: WHEN USING THIS DEPARTURE, FILE THE APPROPRIATE DEPICTED DEPARTURE FIX AND ROUTE.

ALL AIRPORTS: TURBOJET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC.

DETROIT METROPOLITAN WAYNE COUNTY: RWY 3R, 3L, 4R, 4L, 9R, 9L, 21R, 21L, 22R, 22L, 27R, 27L, STANDARD.

ANN ARBOR MUNI: RWY 12, 30, NA-ENVIRONMENTAL. RWY 6, 24, STANDARD.

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OAKLAND COUNTY INTL: RWY 18, 36, NA-ENVIRONMENTAL. RWY 9R, 9L, 27R, 27L, STANDARD.

COLEMAN A. YOUNG MUNI: RWY 7, 15, 33, STANDARD. RWY 25, STANDARD WITH A MINIMUM CLIMB OF 215 FT PER NM TO 1400, 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 DEPARTURE END OF RUNWAY.

WILLOW RUN: RWY 5R, 5L, 9, 23R, 23L, STANDARD. RWY 27, 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 206 FT PER NM TO 1000, 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 DEPARTURE END OF RUNWAY.

TAKEOFF OBSTACLES NOTES:

DETROIT METROPOLITAN WAYNE COUNTY: NOTE: RWY 3R, HEADWALL 399 FT FROM DER, 566 FT RIGHT OF CENTERLINE, 17 FT AGL/647 FT MSL. **NOTE: RWY 3L,** TREE 3794 FT FROM DER, 1441 FT LEFT OF CENTERLINE, 100 FT AGL/734 FT MSL. **NOTE: RWY 4R,** TREES BEGINNING 2850 FT FROM DER, 1058 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL. ANTENNA ON BUILDING 3348 FT FROM DER, 1301 FT LEFT OF CENTERLINE, 100 FT AGL/736 FT MSL. **NOTE: RWY 4L,** TRANSMISSION TOWERS BEGINNING 1516 FT FROM DER, 827 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/690 FT MSL. RODS ON TOWERS BEGINNING 2751 FT FROM DER, 762 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/714 FT MSL. **NOTE: RWY 9R,** TREES BEGINNING 1172 FT FROM DER, 686 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/729 FT MSL. **NOTE: RWY 9L,** TREES BEGINNING 968 FT FROM DER, 461 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/682 FT MSL. TREES BEGINNING 987 FT FROM DER, 607 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/715 FT MSL. **NOTE: RWY 21R,** TREE 1963 FT FROM DER, 554 FT LEFT OF CENTERLINE, 100 FT AGL/739 FT MSL. TREES BEGINNING 2468 FT FROM DER, 721 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/739 FT MSL. **NOTE: RWY 21L,** TREES BEGINNING 1079 FT FROM DER, 586 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/ 739 FT MSL. TREE 3910 FT FROM DER, 1188 FT RIGHT OF CENTERLINE, 101 FT AGL/733 FT MSL. **NOTE: RWY 22R,** TREES BEGINNING 1014 FT FROM DER, 729 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/749 FT MSL. TREES BEGINNING 1039 FT FROM DER, 680 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/749 FT MSL. **NOTE: RWY 22L,** BUSH 514 FT FROM DER, 619 FT RIGHT OF CENTERLINE, 17 FT AGL/652 FT MSL. TREES BEGINNING 794 FT FROM DER, 611 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/739 FT MSL. TREES BEGINNING 1726 FT FROM DER, 921 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL. **NOTE: RWY 27R,** TREES BEGINNING 2998 FT FROM DER, 949 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/754 FT MSL. ROD ON OL ASR 4461 FT FROM DER, 464 FT LEFT OF CENTERLINE, 106 FT AGL/756 FT MSL. TREES BEGINNING 3289 FT FROM DER, 1239 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL. **NOTE: RWY 27L,** TREES BEGINNING 2623 FT FROM DER, 693 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL. TREE 3589 FT FROM DER, 777 FT RIGHT OF CENTERLINE, 100 FT AGL/739 FT MSL.

ANN ARBOR MUNI: NOTE: RWY 6, BUILDING AND MULTIPLE POLES BEGINNING 312 FT FROM DER, 385 FT RIGHT OF CENTERLINE, UP TO 24 FT AGL/853 FT MSL. MULTIPLE TREES BEGINNING 538 FT FROM DER, 47 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/929 FT MSL. BUILDING 99 FT FROM DER, 351 FT LEFT OF CENTERLINE, 22 FT AGL/849 FT MSL. MULTIPLE TREES BEGINNING 634 FT FROM DER, 182 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/887 FT MSL. **NOTE: RWY 24,** TERRAIN 138 FT FROM DER, 475 FT RIGHT OF CENTERLINE, 837 FT MSL. MULTIPLE TREES BEGINNING 462 FT FROM DER, 486 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/885 FT MSL. MULTIPLE TREES BEGINNING 479 FT FROM DER, 473 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/926 FT MSL.

OAKLAND COUNTY INTL: NOTE: RWY 9R, ANTENNA ON HANGER 870 FT FROM DER, 732 FT RIGHT OF CENTERLINE, 36 FT AGL/1006 FT MSL. TREES BEGINNING 1136 FT FROM DER, 480 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1079 FT MSL. TREES BEGINNING 1383 FT FROM DER, 646 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/1011 FT MSL. **NOTE: RWY 9L,** HANGARS BEGINNING 203 FT FROM DER, 510 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/1000 FT MSL. TREES BEGINNING 3347 FT FROM DER, 1252 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1089 FT MSL. **NOTE: RWY 27R,** VEHICLE ON ROAD 416 FT FROM DER, 24 FT RIGHT OF CENTERLINE, 15 FT AGL/992 FT MSL. TREES BEGINNING 451 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/1041 FT MSL. TREES BEGINNING 1234 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/1015 FT MSL. **NOTE: RWY 27L,** VEHICLE ON ROAD 401 FT FROM DER, 539 FT LEFT OF CENTERLINE, 15 FT AGL/991 FT MSL. VEHICLE ON ROAD 417 FT FROM DER, 574 FT RIGHT OF CENTERLINE, 15 FT AGL/992 FT MSL. TREES BEGINNING 452 FT FROM DER, 552 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/1002 FT MSL. TREES BEGINNING 565 FT FROM DER, 521 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/1046 FT MSL.

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COLEMAN A. YOUNG MUNI: NOTE: RWY 7, MULTIPLE POLES, LIGHTS AND TREES, STACK AND ANTENNA BEGINNING 132 FT FROM DER, FROM 405 FT LEFT TO 314 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/687 FT MSL. **NOTE: RWY 15**, TREES, ANTENNA ON BLDG, AND OB LIGHT ON BLDG BEGINNING 299 FT FROM DER, 289 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/692 FT MSL. TREES AND ROD, ANTENNA, PIPE AND FLOODLIGHT ON BUILDINGS, BEGINNING 450 FT FROM DER, 221 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/692 FT MSL. TOWER 3375 FT FROM DER, 1117 FT RIGHT OF CENTERLINE, 103 FT AGL/723 FT MSL. BUILDING 3748 FT FROM DER, 569 FT LEFT OF CENTERLINE, 114 FT AGL/723 FT MSL. **NOTE: RWY 25**, RAILROAD, OBSTRUCTION LIGHTS ON BUILDINGS AND STACKS, TREES AND STACK BEGINNING 1 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/703 FT MSL. TREES AND LIGHT BEGINNING 334 FT FROM DER, 132 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/685 FT MSL. TOWER 2827 FT FROM DER, 1225 FT LEFT OF CENTERLINE, 141 FT AGL/770 FT MSL. STACK 1.5 NM FROM DER, 2,414 FT LEFT OF CENTERLINE, 241 FT AGL/872 FT MSL. **NOTE: RWY 33**, TREES BEGINNING 113 FT FROM DER, 118 FT LEFT OF CENTERLINE, UP TO 73 FT AGL/694 FT MSL. TREES BEGINNING 572 FT FROM DER, 84 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/709 FT MSL. FLAG POLE 963 FT FROM DER, 379 FT LEFT OF CENTERLINE, 28 FT AGL/658 FT MSL.

WILLOW RUN: NOTE: RWY 5R, TREES BEGINNING 1877 FT FROM DER, 803 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/763 FT MSL. TREES BEGINNING 2028 FT FROM DER, 134 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/777 FT MSL. **NOTE: RWY 5L**, TREES BEGINNING 2091 FT FROM DER, 224 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/809 FT MSL. **NOTE: RWY 23R**, SIGN 73 FT FROM DER, 255 FT LEFT OF CENTERLINE, 10 FT AGL/718 FT MSL. VEHICLE ON ROAD, 587 FT FROM DER, 294 FT RIGHT OF CENTERLINE, 15 FT AGL/732 FT MSL. TREES BEGINNING 1020 FT FROM DER, 281 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/793 FT MSL. TREE 1333 FT FROM DER, 316 FT LEFT OF CENTERLINE, 55 FT AGL/757 FT MSL. **NOTE: RWY 23L**, SIGN 44 FT FROM DER, 499 FT RIGHT OF CENTERLINE, 8 FT AGL/718 FT MSL. TREE 1304 FT FROM DER, 438 FT RIGHT OF CENTERLINE, 42 FT AGL/757 FT MSL. TREE 2457 FT FROM DER, 720 FT LEFT OF CENTERLINE, 66 FT AGL/781 FT MSL. **NOTE: RWY 27**, TREE AND POLES BEGINNING 102 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/771 FT MSL. RAILROAD AND LIGHTS BEGINNING 564 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/770 FT MSL. LIGHT ON BUILDING 724 FT FROM DER, 333 FT LEFT OF CENTERLINE, 35 FT AGL 746 FT MSL. TOWER 7161 FT FROM DER, 502 FT LEFT OF CENTERLINE, 162 FT AGL/900 FT MSL.

CONTROLLING OBSTACLES:

COLEMAN A. YOUNG MUNI: RWY 25, 1143 FT MSL BUILDING 422209.00N/0830437.00W. RWY 33, 1749 FT MSL TOWER 422653.00N/0831023.00W.
WILLOW RUN: RWY 27, 900 FT MSL TOWER 421431.51N/0833410.97W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: J146 FROM CXR VOR/DME TO ETG VORTAC.
CHART: HOLDING PATTERN AT MIGET INT, HOLD W, RT, 108.56 INBOUND.
DETROIT METROPOLITAN WAYNE COUNTY: CHART: 10 DME ARC AROUND DXO VOR/DME.
DETROIT METROPOLITAN WAYNE COUNTY – CHART: TOP ALTITUDE: ASSIGNED BY ATC.
COLEMAN A. YOUNG MUNI – CHART: TOP ALTITUDE: 3000.
WILLOW RUN – CHART: TOP ALTITUDE: 3000.
OAKLAND COUNTY INTL – CHART: TOP ALTITUDE: 3000.
ANN ARBOR MUNI – CHART: TOP ALTITUDE: 3000.
REFERENCE MAG VAR: KDTW 6W EPOCH YR: 1990.

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AIRPORTS SERVED:

DETROIT METROPOLITAN WAYNE COUNTY
COLEMAN A. YOUNG MUNI
WILLOW RUN
OAKLAND COUNTY INTL
ANN ARBOR MUNI

DETROIT, MI
DETROIT, MI
DETROIT, MI
PONTIAC, MI
ANN ARBOR, MI

COMMUNICATIONS:

ATIS: DTW, ARB, PTK, DET, YIP, **CLNC DELIVERY:** DTW, ARB, PTK, **GROUND CONTROL:** DTW (EAST/ WEST, METRO TOWER: EAST/WEST), ARB, PTK, DET, YIP, **TOWER:** DTW (WEST/EAST), ARB, PTK, DET, YIP, **DETROIT DEPARTURE CONTROL:** ARB, DET, **CTAF:** ARB, PTK.

FIXES AND/OR NAVAIDS:

RICPO.

COLEMAN A. YOUNG MUNI, WILLOW RUN, ANN ARBOR MUNI, OAKLAND COUNTY INTL: OCTAS, ERRTH.

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REMARKS:

CHANGES:

1. READDED CHARDRON AND KEATING TRANSITIONS THAT WERE REMOVED AS PART OF THE ERRTH FOUR REVISION.
2. ADDED CHART: J146 FROM CXR VOR/DME TO ETG VORTAC AND CHART: HOLDING PATTERN AT MIGET, HOLD W, RT, 108.56 INBOUND.
3. ADDED ADDITIONAL FLIGHT DATA REFERENCE MAG VAR: KDTW 6W EPOCH YR: 1990.

REASONS:

- 1-2. ATC REQUEST.
3. FAAO 8260.46E, APPENDIX D, SECTION 2, PARA 9B.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ERRTH	SIX	ERRTH6 .ERRTH	FIVE	30 APR 15	15 OCT 2015

ARINC SUMMARY - KARB

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
RW06	010	ERRTH	IF	FB										EE
RW24	010	ERRTH	IF	FB										EE
CXR	010	ERRTH	IF	FB										E
CXR	020	CXR	TF	FB										VE
ETG	010	ERRTH	IF	FB										E
ETG	020	CXR	TF	FB										V
ETG	030	MIGET	TF	FB										E H
ETG	040	ETG	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
ERRTH	N421122.00	W0815609.00
CXR	N413100.94	W0810947.47
ETG	N411253.82	W0780833.92
MIGET	N411740.43	W0785151.49

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW06	N421312.88	W0834500.38	00831
RW24	N421332.97	W0834422.45	00826



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ERRTH	SIX	ERRTH6 .ERRTH	FIVE	30 APR 15	15 OCT 2015

ARINC SUMMARY - KDET

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	ERRTH	IF	FB										EE
CXR	010	ERRTH	IF	FB										E
CXR	020	CXR	TF	FB										VE
ETG	010	ERRTH	IF	FB										E
ETG	020	CXR	TF	FB										V
ETG	030	MIGET	TF	FB										E H
ETG	040	ETG	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
ERRTH	N421122.00	W0815609.00
CXR	N413100.94	W0810947.47
ETG	N411253.82	W0780833.92
MIGET	N411740.43	W0785151.49

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW07	N422413.53	W0830048.15	00626
RW15	N422504.67	W0830058.46	00624
RW25	N422426.84	W0830012.44	00622
RW33	N422424.34	W0830017.93	00625



DEPARTURE (DATA RECORD)

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ARINC SUMMARY - KDTW

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	ERRTH	IF	FB										EE
CXR	010	ERRTH	IF	FB										E
CXR	020	CXR	TF	FB										VE
ETG	010	ERRTH	IF	FB										E
ETG	020	CXR	TF	FB										V
ETG	030	MIGET	TF	FB										E H
ETG	040	ETG	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
ERRTH	N421122.00	W0815609.00
CXR	N413100.94	W0810947.47
ETG	N411253.82	W0780833.92
MIGET	N411740.43	W0785151.49

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW03L	N421228.21	W0832104.39	00636
RW03R	N421144.21	W0832106.49	00633
RW04L	N421207.82	W0832302.40	00645
RW04R	N421212.78	W0832213.32	00637
RW09L	N421301.08	W0832147.41	00639
RW09R	N421156.46	W0832142.23	00636
RW21L	N421310.86	W0832002.65	00632
RW21R	N421341.85	W0832010.12	00632
RW22L	N421352.37	W0832059.97	00636
RW22R	N421334.48	W0832158.61	00642
RW27L	N421158.34	W0831949.33	00629
RW27R	N421303.02	W0831951.72	00635

QUALITY
12
CHECKED

DEPARTURE (DATA RECORD)

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ARINC SUMMARY - KPTK

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
RW09B	010	ERRTH	IF	FB										EE
RW27B	010	ERRTH	IF	FB										EE
CXR	010	ERRTH	IF	FB										E
CXR	020	CXR	TF	FB										VE
ETG	010	ERRTH	IF	FB										E
ETG	020	CXR	TF	FB										V
ETG	030	MIGET	TF	FB										E H
ETG	040	ETG	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
ERRTH	N421122.00	W0815609.00
CXR	N413100.94	W0810947.47
ETG	N411253.82	W0780833.92
MIGET	N411740.43	W0785151.49

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW09L	N423958.06	W0832603.84	00974
RW09R	N423952.61	W0832603.53	00980
RW27L	N423955.26	W0832436.33	00972
RW27R	N424000.34	W0832447.94	00973

QUALITY
12
CHECKED

DEPARTURE (DATA RECORD)

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ERRTH	SIX	ERRTH6 .ERRTH	FIVE	30 APR 15	15 OCT 2015

ARINC SUMMARY - KYIP

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	ERRTH	IF	FB										EE
CXR	010	ERRTH	IF	FB										E
CXR	020	CXR	TF	FB										VE
ETG	010	ERRTH	IF	FB										E
ETG	020	CXR	TF	FB										V
ETG	030	MIGET	TF	FB										E H
ETG	040	ETG	TF	FB										VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
ERRTH	N421122.00	W0815609.00
CXR	N413100.94	W0810947.47
ETG	N411253.82	W0780833.92
MIGET	N411740.43	W0785151.49

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW05L	N421355.87	W0833230.06	00715
RW05R	N421350.25	W0833223.46	00715
RW09	N421438.37	W0833228.33	00715
RW23L	N421441.34	W0833110.48	00702
RW23R	N421436.46	W0833132.03	00707
RW27	N421440.03	W0833059.06	00699

