



NATIONAL FLIGHT DATA DIGEST

Aeronautical Information Services  
Toll Free 1-866-295-8236

Tuesday

NO. 137

07/19/2022

NAVAID/COM

COLORADO		<b>NFDD 137 - 1</b>	07/19/2022	
WESTCLIFFE - SILVER WEST(C08)				
AWOS-3PT	C08			
PHONE NUMBER	719-783-3544			MODIFIED

INDIANA		<b>NFDD 137 - 2</b>	07/19/2022	
CRAWFORDSVILLE - CRAWFORDSVILLE RGNL(CFJ)				
AWOS-3PT	CFJ			
LATITUDE	39-58-36.1894 N			MODIFIED
LONGITUDE	086-54-53.4274 W			MODIFIED
ELEVATION	799.3			MODIFIED

NAVAIDS

WASHINGTON		<b>NFDD 137 - 1</b>	07/19/2022	
WALLA WALLA				
TRINA NDB				
IDENT	AL			
LAT	46-10-32.037 N			
LONG	118-11-46.8933 W			
MAG VAR	14 E		EFF: 09/08/2022	MODIFIED

WASHINGTON		<b>NFDD 137 - 2</b>	07/19/2022	
WALLA WALLA				
WALLA WALLA VOR/DME				
IDENT	ALW			
LAT	46-05-13.1163 N			
LONG	118-17-33.127 W			
MAG VAR	14 E		EFF: 09/08/2022	MODIFIED

INSTRUMENT LANDING SYSTEMS

ILLINOIS		<b>NFDD 137 - 1</b>	07/19/2022	
CHICAGO				
CHICAGO O'HARE INTL AIRPORT ILS/DME RWY 09R				
IDENT	I-JAV			
CATEGORY	III			MODIFIED
RMK ILS CLASSIFICATION CODE IIIE				MODIFIED

KANSAS		<b>NFDD 137 - 2</b>	07/19/2022	
LIBERAL				
LIBERAL MID-AMERICA RGNL AIRPORT ILS RWY 35				
IDENT	I-LBL			
OM BEACON				
IDENT	LB			
OM BEACON STATUS	OPERATIONAL IFR			RECAP

KENTUCKY		<b>NFDD 137 - 3</b>	07/19/2022	
MURRAY				
KYLE-OAKLEY FLD AIRPORT LOCALIZER RWY 23				
IDENT	I-EUY			
OM BEACON				
IDENT	EU			
FACILITY TYPE	MARKER/COMLO			RECAP
NAME	MUREY			RECAP
LOCATOR STATUS	OPERATIONAL IFR			DELETED
LOCATOR FREQ	368			DELETED
OM BEACON STATUS	OPERATIONAL IFR			RECAP

WASHINGTON		<b>NFDD 137 - 4</b>	07/19/2022	
WALLA WALLA				
WALLA WALLA RGNL AIRPORT ILS RWY 20				
IDENT	I-ALW			
MAG-VAR	14 E			
			EFF: 09/08/2022	MODIFIED

**AIR TRAFFIC CONTROL TOWERS**

ILLINOIS		<b>NFDD 137 - 1</b>	07/19/2022	
JACKSONVILLE				
JACKSONVILLE MUNI-NON-ATCT				
IDENT	IJX			
FREQUENCIES				
APCH/DEP CALL	SPRINGFIELD			
FREQUENCY	118.45			DELETED
FREQUENCY USE	CD/P			DELETED
APCH/DEP CALL	SPRINGFIELD			
FREQUENCY	323.0			DELETED
FREQUENCY USE	APCH/P DEP/P IC			DELETED
APCH/DEP CALL	SPRINGFIELD			
FREQUENCY	126.15			DELETED

FREQUENCY USE	APCH/P DEP/P	DELETED
APCH/DEP CALL	SPRINGFIELD	
FREQUENCY	118.45	DELETED
FREQUENCY USE	APCH/P DEP/P	DELETED
FREQUENCIES		
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	118.45	ADDED
FREQUENCY USE	CD/P	ADDED
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	126.15	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	323.0	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED
ARPT CTL PROVISION		
P-APCH-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED
P-APCH-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED
P-DEP-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED
P-DEP-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED
RMK	APCH/DEP SVC PRVDD BY ST LOUIS TRACON (T75) ON FREQS 126.15/323.0 0600-2200. APCH/DEP SVC PRVDD BY KANSAS CITY ARTCC (ZKC) ON FREQS 127.275/307.1 (JACKSONVILLE RCAG) 2200-0600.	MODIFIED

ILLINOIS  
LINCOLN

**NFDD 137 - 2**

07/19/2022

LOGAN COUNTY-NON-ATCT  
IDENT

AAA

FREQUENCIES

APCH/DEP CALL	SPRINGFIELD	
FREQUENCY	323.0	DELETED
FREQUENCY USE	APCH/P DEP/P IC	DELETED

APCH/DEP CALL	SPRINGFIELD	
FREQUENCY	126.15	DELETED
FREQUENCY USE	APCH/P DEP/P	DELETED

FREQUENCIES

APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	126.15	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED

APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	323.0	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED

ARPT CTL PROVISION

P-APCH-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED

P-APCH-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED

P-DEP-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED

P-DEP-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED

RMK	APCH/DEP SVC PRVDD BY ST LOUIS TRACON (T75) ON FREQS 126.15/323.0 0600-2200. APCH/DEP SVC PRVDD BY KANSAS CITY ARTCC (ZKC) ON FREQS 127.275/307.1 (JACKSONVILLE RCAG) 2200-0600.	MODIFIED
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ILLINOIS  
SPRINGFIELD

NFDD 137 - 3

07/19/2022

ABRAHAM LINCOLN CAPITAL-ATCT-TRACON  
IDENT SPI

FREQUENCIES

FREQUENCY	323.0	DELETED
FREQUENCY USE	APCH/P DEP/P IC	DELETED

FREQUENCY	323.0	DELETED
FREQUENCY USE	CLASS C	DELETED

FREQUENCY	126.15	DELETED
FREQUENCY USE	APCH/P DEP/P IC	DELETED

FREQUENCY	126.15	DELETED
FREQUENCY USE	CLASS C	DELETED

FREQUENCY	132.575	DELETED
FREQUENCY USE	APCH/P DEP/P	DELETED
FREQUENCIES		
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	126.15	ADDED
FREQUENCY USE	APCH/P DEP/P IC	ADDED
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	126.15	ADDED
FREQUENCY USE	CLASS C	ADDED
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	132.575	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	323.0	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED
APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	323.0	ADDED
FREQUENCY USE	CLASS C	ADDED
ARPT CTL PROVISION		
P-APCH-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED
P-APCH-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED
P-DEP-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED
P-DEP-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED
RMK	APCH/DEP SVC PRVDD BY ST LOUIS TRACON (T75) ON FREQ 126.15/323.0 0600-2200. APCH/DEP SVC PRVDD BY KANSAS CITY ARTCC (ZKC) ON FREQ 126.15 (SPRINGFIELD, IL RCAG) 2200-0600.	MODIFIED

ILLINOIS  
TAYLORVILLE

NFDD 137 - 4

07/19/2022

TAYLORVILLE MUNI-NON-ATCT  
IDENT

TAZ

FREQUENCIES

APCH/DEP CALL	SPRINGFIELD	
FREQUENCY	323.0	DELETED
FREQUENCY USE	APCH/P DEP/P IC	DELETED

APCH/DEP CALL	SPRINGFIELD	
FREQUENCY	126.15	DELETED
FREQUENCY USE	APCH/P DEP/P	DELETED

FREQUENCIES

APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	126.15	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED

APCH/DEP CALL	SAINT LOUIS	
SVC PRVDR NAME	SAINT LOUIS TRACON	ADDED
FREQUENCY	323.0	ADDED
FREQUENCY USE	APCH/P DEP/P	ADDED

ARPT CTL PROVISION

P-APCH-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED

P-APCH-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED

P-DEP-CALL	SAINT LOUIS	ADDED
CTL TRACON ID	T75	ADDED
CTL PROVIDING TRACON	SAINT LOUIS TRACON	ADDED
RADAR/NON-RADAR	RADAR	ADDED

P-DEP-CALL	SPRINGFIELD	DELETED
CTL ARPT ID	SPI	DELETED
CTL PROVIDING ARPT	ABRAHAM LINCOLN CAPITAL	DELETED

RMK APCH/DEP SVC PRVDD BY ST LOUIS TRACON (T75) ON FREQS 126.15/323.0 0600-2200. APCH/DEP SVC PRVDD BY KANSAS CITY ARTCC (ZKC) ON FREQS 124.3/269.15 (DECATUR RCAG) 2200-0600. MODIFIED

AIRPORT

CALIFORNIA  
CAMP ROBERTS/SAN MIGUEL  
ROBERTS AHP HELIPORT

NFDD 137 - 1

07/19/2022

( SYL ) 01370.05H PRIVATE

LATITUDE - 35-48-53.879 N LONGITUDE - 120-44-37.625 W  
RMK SYL CTC ROBERTS RDO 38.9 FM, CTC ROBERTS RDO VHF 134.1, UHF 241.0 MODIFIED  
RMK .....MILITARY VALIDATED (FIL 2022-282)..... NOTE

COLORADO NFDD 137 - 2 07/19/2022  
CENTER  
LEACH AIRPORT ( 1V8 ) 02538.3A  
LATITUDE - 37-47-05.7 N LONGITUDE - 106-02-48.9 W  
RWY ID 12/30  
RWY END 12  
CTLG OBSTN TREES MODIFIED

COLORADO NFDD 137 - 3 07/19/2022  
LA VETA  
CUCHARA VALLEY AT LA VETA AIRPORT ( 07V ) 02659.A  
LATITUDE - 37-31-25.768 N LONGITUDE - 105-00-33.367 W  
RMK RWY 24 HAS METAL SIGN POST WI 5 FT OF RWY EDGE AT NORTH TWY ADDED  
APRXLY 500 FT FM APCH END.  
RMK RWY 24 HAS LRG HOLE MKD WITH ORANGE SAFETY CONE APRXLY 500 ADDED  
FT FM APCH END.

FLORIDA NFDD 137 - 4 07/19/2022  
ARCADIA  
SUNNYBREEZE AIRPORT ( 09FL ) 03030.02A PRIVATE  
LATITUDE - 27-03-20.0 N LONGITUDE - 081-58-14.0 W  
ARPT STATUS ABANDONED MODIFIED

ILLINOIS NFDD 137 - 5 07/19/2022  
CHICAGO/PROSPECT HEIGHTS/WHEELING  
CHICAGO EXEC AIRPORT ( PWK ) 04508.1A  
LATITUDE - 42-06-51.406 N LONGITUDE - 087-54-05.547 W  
RMK TWY F CLSD TO ACFT WINGSPAN MORE THAN 40 FT. ADDED  
RMK TWY B BTN APCH END RWY 24 AND AREA 2 RAMP CLSD TO ACFT ADDED  
WINGSPAN MORE THAN 40 FT.

LOUISIANA NFDD 137 - 6 07/19/2022  
WELSH  
WELSH AIRPORT ( 6R1 ) 07784.A  
LATITUDE - 30-14-30.6764 N LONGITUDE - 092-49-50.658 W  
RWY ID 07/25  
RMK SURFACE: RWY HAS SOME SMALL LONGITUDINAL CRACKS WITH MODIFIED  
GRASS GROWTH. BLOCK CRACKS WITH GRASS GROWTH RWY 07  
TURNAROUND. GRAVEL FOD PRESENT IN PLACES.

MISSOURI NFDD 137 - 7 07/19/2022  
CHILLICOTHE  
CHILLICOTHE MUNI AIRPORT ( CHT ) 11638.A  
LATITUDE - 39-46-55.2556 N LONGITUDE - 093-29-46.4499 W  
RMK APT LGT SKED: ACTVT REIL RWYS 14 & 32; PAPI RWYS 14 & 32; MIRL MODIFIED  
RWY 14 & 32 - CTAF.  
RWY ID 02/20  
RWY END 02

RMK	MKG TYPE - COND: RWY 02/20 MARKED WITH LARGE YELLOW CONES. DSPLCD THRS MARKED WITH 3 LARGE YELLOW CONES ON EACH SIDE OF RWY.			MODIFIED
RWY END	20			
CTLG OBSTN	TREE			ADDED
RWY ID	14/32			
RMK	RWY ID: RWY 14/32 PARL TWY RSTRD TO ACFT 12,500 LBS MAX GWT OR LESS; PPR FOR ACFT EXCEEDING 12,500 LBS CALL AMGR ON 660-646-5270.			DELETED
MISSOURI		<b>NFDD 137 - 8</b>	07/19/2022	
MOUNTAIN GROVE				
MOUNTAIN GROVE MEML AIRPORT		( IMO )	11950.11A	
LATITUDE -	37-07-15.1011 N	LONGITUDE -	092-18-36.384 W	
RMK	NUMEROUS PART 77 OBSTRUCTIONS IN PRIMARY, APPROACH, & TRANSTIONAL SURFACES AROUND ENTIRE RY.			DELETED
MISSOURI		<b>NFDD 137 - 9</b>	07/19/2022	
MOUNTAIN VIEW				
MOUNTAIN VIEW AIRPORT		( MNF )	11951.A	
LATITUDE -	36-59-34.2 N	LONGITUDE -	091-42-52.1 W	
RWY ID	10/28			
RWY END	10			
RMK	MKG TYPE - COND: MARKINGS FADED			ADDED
RWY END	28			
RMK	MKG TYPE - COND: MARKINGS FADED			ADDED
NEBRASKA		<b>NFDD 137 - 10</b>	07/19/2022	
SCRIBNER				
SCRIBNER STATE AIRPORT		( SCB )	12917.A	
LATITUDE -	41-36-37.2 N	LONGITUDE -	096-37-47.5 W	
RMK	FUEL: 100LL: CTC AMGR FOR FUEL. CASH OR CK ONLY.			ADDED
NEVADA		<b>NFDD 137 - 11</b>	07/19/2022	
LAS VEGAS				
NORTH LAS VEGAS AIRPORT		( VGT )	13082.A	
LATITUDE -	36-12-38.5305 N	LONGITUDE -	115-11-39.9955 W	
RWY ID	12L/30R			
RWY END	12L			
TORA	4199			MODIFIED
TODA	4199			MODIFIED
ASDA	4199			MODIFIED
LDA	4199			MODIFIED
RWY END	30R			
TORA	4199			MODIFIED
TODA	4199			MODIFIED
ASDA	4199			MODIFIED
NEVADA		<b>NFDD 137 - 12</b>	07/19/2022	
MINDEN				
MINDEN-TAHOE AIRPORT		( MEV )	13091.A	
LATITUDE -	39-00-01.8 N	LONGITUDE -	119-45-04.0 W	
RMK	APT LGT SKED: ACTVT REIL RWY 16 & 34; VASI RWY 16 & 34; HIRL RWY 16/34 - CTAF.			MODIFIED



RMK	DEER & MIGRATORY BIRDS ON AND IN VICINITY OF ARPT.	DELETED
RMK	SAILPLANE, ULTRALIGHT, SKYDIVING, AND BLN ACT ON & INVOF ARPT.	MODIFIED
RMK	ULTRALIGHT AND BALLOON ACTIVITY ON AND IN VICINITY OF ARPT.	DELETED
RMK	GLIDER ACTIVITY ON AND IN VICINITY OF AIRPORT.	DELETED
RMK	SKYDIVING ACT ON AND IN THE VCY OF ARPT.	DELETED
RWY ID	12/30	
RMK	PCN VALUE: PCR VALUE: 10/F/C/X/T	MODIFIED
RWY ID	16/34	
RMK	PCN VALUE: PCR VALUE: 40/F/C/X/T	MODIFIED
RWY END	16	
REIL	YES	ADDED
RWY END	34	
REIL	YES	ADDED

NEW MEXICO	<b>NFDD 137 - 13</b>	07/19/2022	
SANTA TERESA			
CIELO DORADO ESTATES AIRPORT	( NM05 )	14733.03A	<b>PRIVATE</b>
LATITUDE - 31-54-33.372 N	LONGITUDE -	106-38-27.972 W	
ARPT ELEV DATE	07/13/2022		ADDED
ARPT ELEV SOURCE	ADO		MODIFIED
ARPT PSN DATE	07/13/2022		ADDED
ARPT PSN SOURCE	ADO		MODIFIED
RMK	APT LGT SKED: ACTVT PAPI RWY 22; MIRL RWY 04/22 - 122.9.		MODIFIED
EPOCH YEAR	1985		DELETED
MAG-VAR	11 E		DELETED
RWY ID	04/22		
LENGTH	4000		RECAP
LENGTH DATE	07/13/2022		ADDED
LENGTH SOURCE	ADO		ADDED
WIDTH	50		RECAP
SURFACE	ASPH		RECAP
RWY END	04		
RWY END	NE		REPLACED
RWY END	04		NEW
RGT TFC	YES		DELETED
RWY END	22		
RWY END	SW		REPLACED
RWY END	22		NEW
RGT TFC	YES		DELETED

OREGON	<b>NFDD 137 - 14</b>	07/19/2022	
ROSEBURG			
ROSEBURG RGNL AIRPORT	( RBG )	19589.A	
LATITUDE - 43-14-21.607 N	LONGITUDE -	123-21-21.069 W	
EPOCH YEAR	2925	EFF: 09/08/2022	MODIFIED
MAG-VAR	14	EFF: 09/08/2022	MODIFIED

SOUTH DAKOTA	<b>NFDD 137 - 15</b>	07/19/2022	
ISABEL			
ISABEL MUNI AIRPORT	( 3Y7 )	22711.3A	
LATITUDE - 45-23-22.96 N	LONGITUDE -	101-26-15.26 W	
RWY ID	13/31		
RWY END	13		

RMK MKG TYPE - COND: 13/31 MKD WITH WHITE/BLACK MKR CONES.	MODIFIED
RWY END 31	
CTLG OBSTN TREES	DELETED

TENNESSEE	<b>NFDD 137 - 16</b>	07/19/2022	
MEMPHIS			
REGIONAL ONE HEALTH HELIPORT	( 05TN )	23097.02H	<b>PRIVATE</b>
LATITUDE - 35-08-32.26 N	LONGITUDE -	090-01-53.53 W	
ARPT ELEV 364 E			ADDED
ARPT ELEV DATE 04/01/2022			ADDED
ARPT ELEV SOURCE ADO			ADDED
LATITUDE 35-08-32.26 N			ADDED
LONGITUDE 090-01-53.53 W			ADDED
ARPT PSN DATE 04/01/2022			ADDED
ARPT PSN SOURCE ADO			ADDED
ARPT NAME REGIONAL ONE HEALTH			ADDED
CITY MEMPHIS			ADDED
DIST AND DRCTN 2 E			ADDED
ARPT ID 05TN			ADDED
ARPT SITE NO 23097.02H			ADDED
AIRPORT USE PRIVATE			ADDED
ARPT STATUS OPERATIONAL			ADDED
FSS ID MKL*JACKSON			ADDED
FSS TOLL FREE NUMBER 1-800-WX-BRIEF			ADDED
INSPECTOR CODE NOT INSPECTED			ADDED
AIRSPACE DETERMINATION NO OBJECTION			ADDED
MIN OPERATIONAL NETWORK NO			ADDED
RWY ID H1			
LENGTH 52			ADDED
LENGTH DATE 04/01/2022			ADDED
LENGTH SOURCE ADO			ADDED
WIDTH 52			ADDED
SURFACE CONC-TRTD			ADDED
RWY END H1			
RWY END H1			ADDED
ELEVATION 364			ADDED
RWY END ELEV DATE 04/01/2022			ADDED
RWY END ELEV SOURCE ADO			ADDED
LATITUDE 35-08-32.26 N			ADDED
LONGITUDE 090-01-53.53 W			ADDED
RWY END PSN DATE 04/01/2022			ADDED
RWY END PSN SOURCE ADO			ADDED

UTAH	<b>NFDD 137 - 17</b>	07/19/2022	
CEDAR CITY			
CEDAR CITY RGNL AIRPORT	( CDC )	25117.A	
LATITUDE - 37-42-03.492 N	LONGITUDE -	113-05-55.863 W	
MIN OPERATIONAL NETWORK NO			MODIFIED

WASHINGTON	<b>NFDD 137 - 18</b>	07/19/2022	
RICHLAND			
RICHLAND AIRPORT	( RLD )	26386.1A	
LATITUDE - 46-18-20.302 N	LONGITUDE -	119-18-15.082 W	
RWY ID 08/26			

RWY END	08		
APCH LGTS	ODALS		DELETED
RMK EFF 8 SEP 2022.			NOTE

WASHINGTON		<b>NFDD 137 - 19</b>	07/19/2022	
WALLA WALLA				
WALLA WALLA RGNL AIRPORT		( ALW )	26450.A	
LATITUDE - 46-05-33.15 N		LONGITUDE -	118-17-02.697 W	
EPOCH YEAR	2025		EFF: 09/08/2022	MODIFIED
MAG-VAR	14		EFF: 09/08/2022	MODIFIED

**AIRSPACE FIXES**

ALL AZIMUTHS ARE MAGNETIC AND FROM THE FACILITY.  
 ALL DISTANCES ARE IN NAUTICAL MILES.

EFFECTIVE 9/8/2022 OR AS NOTED THE FOLLOWING AIRSPACE FIXES  
 ARE ESTABLISHED MODIFIED OR CANCELLED AS INDICATED.

\* \* \* ESTABLISHED \* \* \*

CALIFORNIA		<b>NFDD 137 - 1</b>	07/19/2022
BRAAH			
LATITUDE	33-45-03.68 N		
LONGITUDE	118-00-55.96 W		
ARTCC	ZLA		
FIX TYPE	WAYPOINT		
CHARTING	SPECIAL IAP		
ICAO REGION	K2		

CALIFORNIA		<b>NFDD 137 - 2</b>	07/19/2022
CYNIC			
LATITUDE	33-44-47.03 N		
LONGITUDE	117-55-28.28 W		
ARTCC	ZLA		
FIX TYPE	WAYPOINT		
CHARTING	SPECIAL IAP		
CHARTING	SPECIAL DP		
ICAO REGION	K2		

CALIFORNIA		<b>NFDD 137 - 3</b>	07/19/2022
DOEVR			
LATITUDE	33-46-38.08 N		
LONGITUDE	117-52-38.18 W		
ARTCC	ZLA		
FIX TYPE	WAYPOINT		
CHARTING	SPECIAL IAP		
CHARTING	SPECIAL DP		
ICAO REGION	K2		

CALIFORNIA		<b>NFDD 137 - 4</b>	07/19/2022
GOOCI			
LATITUDE	33-42-53.99 N		
LONGITUDE	117-58-26.00 W		
ARTCC	ZLA		
FIX TYPE	WAYPOINT		
CHARTING	SPECIAL DP		
CHARTING	SPECIAL IAP		
ICAO REGION	K2		

CALIFORNIA		<b>NFDD 137 - 5</b>	07/19/2022
GORND			
LATITUDE	33-40-44.25 N		
LONGITUDE	117-55-56.16 W		
ARTCC	ZLA		
FIX TYPE	WAYPOINT		
CHARTING	SPECIAL IAP		
ICAO REGION	K2		

\* \* \* MODIFIED \* \* \*

ALASKA		<b>NFDD 137 - 6</b>	07/19/2022
HEXAX			
LATITUDE	65-59-40.49 N		
LONGITUDE	145-23-01.26 W		
ARTCC	ZAN		
FIX TYPE	WAYPOINT		
CHARTING	CONTROLLER LOW		ADDED
CHARTING	ENROUTE LOW		
ICAO REGION	PA		

ALASKA		<b>NFDD 137 - 7</b>	07/19/2022
HYLEE			
NAV-FAC-AZIMUTH/DSTC	SPY*NDB/DME*036.60/14.08		MODIFIED
LATITUDE	57-19-03.13 N		
LONGITUDE	169-55-06.61 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	CONTROLLER LOW		ADDED
CHARTING	IAP		
CHARTING	ENROUTE LOW		
CHARTING INFO	RNAV		
ICAO REGION	PA		

ALASKA		<b>NFDD 137 - 8</b>	07/19/2022
ICADI			
NAV-FAC-AZIMUTH/DSTC	AKN*VORTAC*094.32/19.27		MODIFIED
LATITUDE	58-36-43.68 N		
LONGITUDE	156-10-34.46 W		
ARTCC	ZAN		

FIX TYPE	REP-PT		
CHARTING	IAP		
CHARTING	ENROUTE LOW		
CHARTING	CONTROLLER LOW		
CHARTING INFO	RNAV		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 9</b>	07/19/2022
ICALU			
LATITUDE	61-32-00.59 N		MODIFIED
LONGITUDE	160-22-46.46 W		MODIFIED
ARTCC	ZAN		
FIX TYPE	WAYPOINT		
CHARTING	IAP		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 10</b>	07/19/2022
IKIZY			
LATITUDE	61-31-21.54 N		MODIFIED
LONGITUDE	160-31-38.27 W		MODIFIED
ARTCC	ZAN		
FIX TYPE	WAYPOINT		
CHARTING	IAP		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 11</b>	07/19/2022
IKUFU			
ILS-FAC-CRS/DSTC	ANI*LD/11.69*289.17		
LATITUDE	61-40-34.53 N		
LONGITUDE	159-52-35.43 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	ENROUTE LOW		ADDED
CHARTING	CONTROLLER LOW		ADDED
CHARTING	IAP		
CHARTING INFO	RNAV		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 12</b>	07/19/2022
JAGGU			
NAV-FAC-AZIMUTH/DSTC	GAL*VOR/DME*254.34/24.00		
LATITUDE	64-44-40.37 N		
LONGITUDE	157-42-36.75 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	IAP		DELETED
CHARTING	CONTROLLER LOW		ADDED
CHARTING	ENROUTE LOW		
CHARTING INFO	RNAV		ADDED
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 13</b>	07/19/2022
JANVO			

LATITUDE	61-26-23.44 N		
LONGITUDE	160-02-36.42 W		
ARTCC	ZAN		
FIX TYPE	WAYPOINT		
CHARTING	CONTROLLER LOW		ADDED
CHARTING	IAP		
CHARTING	ENROUTE LOW		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 14</b>	07/19/2022
JAYQE			
NAV-FAC-AZIMUTH/DSTC	OAY*NDB*073.43		DELETED
NAV-FAC-AZIMUTH/DSTC	MOS*VOR/DME*070.55/33.30		
LATITUDE	64-43-27.03 N		
LONGITUDE	160-46-46.17 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	IAP		
CHARTING	ENROUTE LOW		
CHARTING	CONTROLLER LOW		
CHARTING INFO	RNAV		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 15</b>	07/19/2022
JOTPU			
NAV-FAC-AZIMUTH/DSTC	HPB*VOR/DME*094.41/10.60		
LATITUDE	61-27-40.37 N		MODIFIED
LONGITUDE	165-46-59.37 W		MODIFIED
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	CONTROLLER LOW		ADDED
CHARTING	IAP		
CHARTING	ENROUTE LOW		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 16</b>	07/19/2022
JUGLO			
LATITUDE	61-22-14.10 N		MODIFIED
LONGITUDE	165-57-07.66 W		MODIFIED
ARTCC	ZAN		
FIX TYPE	WAYPOINT		
CHARTING	IAP		
ICAO REGION	PA		
ALASKA		<b>NFDD 137 - 17</b>	07/19/2022
KADBE			
NAV-FAC-AZIMUTH/DSTC	HPB*VOR/DME*132.88/4.43		MODIFIED
LATITUDE	61-27-12.19 N		MODIFIED
LONGITUDE	166-02-53.58 W		MODIFIED
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	IAP		
ICAO REGION	PA		

ALASKA		<b>NFDD 137 - 18</b>	07/19/2022
KOKOZ			
NAV-FAC-AZIMUTH/DSTC	AKN*VORTAC*094.32/35.00		
LATITUDE	58-31-05.99 N		
LONGITUDE	155-42-32.17 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	MILITARY IAP		
CHARTING	ENROUTE LOW		
CHARTING	ENROUTE HIGH		
CHARTING	CONTROLLER HIGH		
CHARTING	CONTROLLER LOW		
CHARTING INFO	RNAV		ADDED
ICAO REGION	PA		

ALASKA		<b>NFDD 137 - 19</b>	07/19/2022
LIBER			
NAV-FAC-AZIMUTH/DSTC	FAI*VORTAC*175.17/47.00		
NAV-FAC-AZIMUTH/DSTC	ENN*VORTAC*134.37		
LATITUDE	64-02-57.64 N		
LONGITUDE	148-30-29.65 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	CONTROLLER		DELETED
CHARTING	CONTROLLER LOW		ADDED
CHARTING	AREA		
CHARTING	ENROUTE LOW		
CHARTING	STAR		
CHARTING INFO	RNAV		
ICAO REGION	PA		

ALASKA		<b>NFDD 137 - 20</b>	07/19/2022
LJFY			
NAV-FAC-AZIMUTH/DSTC	SRI*NDB/DME*109.85/7.70		
NAV-FAC-AZIMUTH/DSTC	SPY*NDB/DME*135.66/46.63		
LATITUDE	56-30-50.72 N		
LONGITUDE	169-26-29.60 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		
CHARTING	CONTROLLER		DELETED
CHARTING	CONTROLLER LOW		ADDED
CHARTING	IAP		
CHARTING	ENROUTE LOW		
ICAO REGION	PA		

ALASKA		<b>NFDD 137 - 21</b>	07/19/2022
NUTUW			
NAV-FAC-AZIMUTH/DSTC	AKN*VORTAC*025.96/67.85		MODIFIED
LATITUDE	59-33-17.62 N		
LONGITUDE	155-16-01.04 W		
ARTCC	ZAN		
FIX TYPE	REP-PT		

CHARTING	IAP		
CHARTING	ENROUTE LOW		
CHARTING	CONTROLLER LOW		
CHARTING INFO	RNAV		
ICAO REGION	PA		
ARKANSAS		<b>NFDD 137 - 22</b>	07/19/2022
REYLO			
NAV-FAC-AZIMUTH/DSTC	PBF*VOR/DME*/8.00		
ILS-FAC-CRS/DSTC	PBF*LS*359.81*N CRS		ADDED
LATITUDE	34-22-48.21 N		
LONGITUDE	091-56-11.10 W		
ARTCC	ZME		
FIX TYPE	REP-PT		
CHARTING	IAP		
ICAO REGION	K4		
KANSAS		<b>NFDD 137 - 23</b>	07/19/2022
DRAWL			
NAV-FAC-AZIMUTH/DSTC	GCK*VORTAC*227.82/49.80		
LATITUDE	37-29-07.47 N		
LONGITUDE	101-37-02.10 W		
ARTCC	ZKC		
FIX TYPE	REP-PT		
CHARTING	ENROUTE HIGH		
CHARTING	CONTROLLER HIGH		
CHARTING	CONTROLLER LOW		
CHARTING	ENROUTE LOW		
CHARTING INFO	RNAV		ADDED
ICAO REGION	K3		
TEXAS		<b>NFDD 137 - 24</b>	07/19/2022
LOVAZ			
NAV-FAC-AZIMUTH/DSTC	IAH*VORTAC*344.17/42.78		
NAV-FAC-AZIMUTH/DSTC	LOA*VORTAC*131.00/36.83		
LATITUDE	30-39-31.80 N		
LONGITUDE	095-30-03.74 W		
ARTCC	ZHU		
FIX TYPE	REP-PT		
CHARTING	CONTROLLER		DELETED
CHARTING	CONTROLLER LOW		ADDED
CHARTING	ENROUTE LOW		
ICAO REGION	K4		

**HOLDING PATTERNS**

EFFECTIVE 9/8/2022 OR AS NOTED THE FOLLOWING HOLDING PATTERNS ARE ESTABLISHED MODIFIED OR CANCELLED AS INDICATED. ONLY HOLDING PATTERNS AFFECTING CHARTS ARE INCLUDED IN THE LISTING.



\* \* \* ESTABLISHED \* \* \*

ALASKA		<b>NFDD 137 - 1</b>	07/19/2022
KUREY WP*AK*PA	PATTERN - 1		
HOLD-DIR	SW		
DEGREES	203		
AZIMUTH	RNAV		
CRS-INB	023		
TURN-DIR	L		
LEG LENGTH OUTBOUND	4 NM		
CHARTING	IAP		

\* \* \* MODIFIED \* \* \*

ALASKA		<b>NFDD 137 - 2</b>	07/19/2022
JANVO WP*AK*PA	PATTERN - 1		
HOLD-DIR	SE		MODIFIED
DEGREES	113		MODIFIED
AZIMUTH	RNAV		
CRS-INB	293		MODIFIED
TURN-DIR	R		
LEG LENGTH OUTBOUND	4 NM		
CHARTING	IAP		

ALASKA		<b>NFDD 137 - 3</b>	07/19/2022
JOCGI WP*AK*PA	PATTERN - 1		
HOLD-DIR	W		MODIFIED
DEGREES	251		MODIFIED
AZIMUTH	RNAV		
CRS-INB	071		MODIFIED
TURN-DIR	R		
LEG LENGTH OUTBOUND	4 NM		
CHARTING	IAP		

ALASKA		<b>NFDD 137 - 4</b>	07/19/2022
NOME VOR/DME*AK	PATTERN - 1		
DEFINING RESOURCE	OME*VOR/DME		
HOLD-DIR	E		
DEGREES	097		MODIFIED
AZIMUTH	RAD		
CRS-INB	277		MODIFIED
TURN-DIR	L		
CHARTING	NOT REQUIRED		DELETED
CHARTING	IAP		ADDED

NEW MEXICO		<b>NFDD 137 - 5</b>	07/19/2022
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ZUNI VORTAC*NM	PATTERN - 1	
DEFINING RESOURCE	ZUN*VORTAC	
HOLD-DIR	E	
DEGREES	073	
AZIMUTH	RAD	
CRS-INB	253	
TURN-DIR	L	
CHARTING	ENROUTE HIGH	
CHARTING	STAR	
RMK CHART 210K ICON		ADDED

\* \* \* CANCELLED \* \* \*

ALASKA	<b>NFDD 137 - 6</b>	07/19/2022
NOME VOR/DME*AK	PATTERN - 2	
DEFINING RESOURCE	OME*VOR/DME	
HOLD-DIR	E	
DEGREES	097	
AZIMUTH	RAD	
CRS-INB	277	
TURN-DIR	L	
CHARTING	IAP	

**PREFERRED IFR ROUTE**

EFFECTIVE 9/8/2022 OR AS NOTED THE FOLLOWING PREFERRED IFR ROUTES ARE ESTABLISHED, MODIFIED OR CANCELED AS INDICATED.

\* \* \* MODIFIED \* \* \*

HIGH ALTITUDE ROUTE

AUS*IAD*H*2	<b>NFDD 137 - 1</b>	07/19/2022
AUSTIN-BERGSTROM INTL TO WASHINGTON DULLES INTL		
ROUTE CONFIGURATION		
ILEXY*THREE (RNAV) DP		
ZENZI, K4, TX FIX		

LFK, VORTAC  
 SUTTN, K4, AR FIX  
 J29 AWY  
 CARIN, K4, AR FIX  
 MEMFS, K7, TN FIX  
 Q34 AWY  
 WAKOL, K7, TN FIX  
 BNA, VORTAC  
 HITMN, K7, TN FIX  
 HVQ, VOR/DME  
 GIBBZ\*FOUR (RNAV) STAR

DELETED  
 DELETED  
 ADDED

BNA\*EWR\*H\*2 **NFDD 137 - 2** 07/19/2022

NASHVILLE INTL TO NEWARK LIBERTY INTL

AIRCRAFT GPS OR DME/DME-IRU EQUIPPED  
 HOURS 1100-0400

ROUTE CONFIGURATION

TAZMO, K7, TN FIX  
 SPA, VORTAC  
 BURGG, K7, SC FIX  
 Q22 AWY  
 BEARI, K6, VA FIX  
 FAK, VORTAC  
 PHLBO\*THREE (RNAV) STAR

DELETED  
 ADDED

DAL\*EWR\*H\*1 **NFDD 137 - 3** 07/19/2022

DALLAS LOVE FLD TO NEWARK LIBERTY INTL

ROUTE CONFIGURATION

LNDRE\*FIVE (RNAV) DP  
 FORCK, K4, TX FIX  
 ELD, VOR/DME  
 IZAAC, K7, MS FIX  
 Q30 AWY  
 VLKNN, K7, AL FIX  
 THRSR, K7, GA FIX  
 TWOUP, K7, GA FIX  
 SPA, VORTAC  
 Q22 AWY  
 BEARI, K6, VA FIX  
 FAK, VORTAC  
 PHLBO\*THREE (RNAV) STAR

DELETED

DAL\*IAD\*H\*1 **NFDD 137 - 4** 07/19/2022

DALLAS LOVE FLD TO WASHINGTON DULLES INTL

ROUTE CONFIGURATION

LNDRE\*FIVE (RNAV) DP  
 LOOSE, K4, AR FIX  
 Q34 AWY  
 WAKOL, K7, TN FIX  
 BNA, VORTAC  
 HITMN, K7, TN FIX  
 HVQ, VOR/DME  
 GIBBZ\*FOUR (RNAV) STAR

DELETED  
 DELETED  
 ADDED

DAL\*LGA\*H\*1  
DALLAS LOVE FLD TO LAGUARDIA

NFDD 137 - 5

07/19/2022

ROUTE CONFIGURATION

LNDRE\*FIVE (RNAV) DP  
FORCK, K4, TX FIX  
ELD, VOR/DME  
IZAAC, K7, MS FIX  
Q30 AWY  
VLKNN, K7, AL FIX  
THRSR, K7, GA FIX  
TWOUP, K7, GA FIX  
Q22 AWY  
SPA, VORTAC  
BURGG, K7, SC FIX  
Q60 AWY  
JAXSN, K6, VA FIX  
HPW, VORTAC  
HUBBS, K6, VA FIX  
PXT, VORTAC  
KORRY\*FOUR STAR

DELETED  
ADDED

DFW\*IAD\*H\*1  
DALLAS-FORT WORTH INTL TO WASHINGTON DULLES INTL

NFDD 137 - 6

07/19/2022

ROUTE CONFIGURATION

TRYTN\*FOUR (RNAV) DP  
LOOSE, K4, AR FIX  
Q34 AWY  
WAKOL, K7, TN FIX  
BNA, VORTAC  
HITMN, K7, TN FIX  
HVQ, VOR/DME  
GIBBZ\*FOUR (RNAV) STAR

DELETED  
DELETED  
ADDED

DFW\*LGA\*H\*1  
DALLAS-FORT WORTH INTL TO LAGUARDIA

NFDD 137 - 7

07/19/2022

ROUTE CONFIGURATION

FORCK\*THREE (RNAV) DP  
FORCK, K4, TX FIX  
ELD, VOR/DME  
IZAAC, K7, MS FIX  
Q30 AWY  
VLKNN, K7, AL FIX  
THRSR, K7, GA FIX  
TWOUP, K7, GA FIX  
Q22 AWY  
SPA, VORTAC  
BURGG, K7, SC FIX  
Q60 AWY  
JAXSN, K6, VA FIX  
HPW, VORTAC  
HUBBS, K6, VA FIX  
PXT, VORTAC

DELETED  
ADDED

KORRY\*FOUR STAR

DFW\*SDF\*H\*1

NFDD 137 - 8

07/19/2022

DALLAS-FORT WORTH INTL TO LOUISVILLE MUHAMMAD ALI INTL

ROUTE CONFIGURATION

TRYTN\*FOUR (RNAV) DP

LOOSE, K4, AR FIX

Q34 AWY

WAKOL, K7, TN FIX

DELETED

BNA, VORTAC

DELETED

HITMN, K7, TN FIX

ADDED

MBELL, K5, KY FIX

MBELL\*FOUR (RNAV) STAR

FTW\*LOU\*H\*1

NFDD 137 - 9

07/19/2022

FORT WORTH MEACHAM INTL TO BOWMAN FLD

ROUTE CONFIGURATION

TXK, VORTAC

Q34 AWY

WAKOL, K7, TN FIX

DELETED

BNA, VORTAC

DELETED

HITMN, K7, TN FIX

ADDED

MBELL, K5, KY FIX

MBELL\*FOUR (RNAV) STAR

HOU\*IAD\*H\*3

NFDD 137 - 10

07/19/2022

WILLIAM P HOBBY TO WASHINGTON DULLES INTL

AIRCRAFT TURBOJETS

ROUTE CONFIGURATION

ELOCO\*SIX (RNAV) DP

LLA, VOR/DME

HRV, VORTAC

SJI, VORTAC

CATLN, K7, AL FIX

Q22 AWY

SPA, VORTAC

DELETED

BURGG, K7, SC FIX

ADDED

Q60 AWY

JAXSN, K6, VA FIX

DORRN, K6, VA FIX

CAVLR\*FOUR (RNAV) STAR

HOU\*LGA\*H\*3

NFDD 137 - 11

07/19/2022

WILLIAM P HOBBY TO LAGUARDIA

ROUTE CONFIGURATION

ELOCO\*SIX (RNAV) DP

LLA, VOR/DME

HRV, VORTAC

Q56 AWY

CATLN, K7, AL FIX

Q22 AWY

SPA, VORTAC

DELETED

BURGG, K7, SC FIX

ADDED

Q60 AWY  
JAXSN, K6, VA FIX  
HPW, VORTAC  
HUBBS, K6, VA FIX  
PXT, VORTAC  
KORRY\*FOUR STAR

HOU\*RIC\*H\*1

NFDD 137 - 12

07/19/2022

WILLIAM P HOBBY TO RICHMOND INTL

AIRCRAFT TURBOJETS & TURBOPROPS

ROUTE CONFIGURATION

ELOCO\*SIX (RNAV) DP

LLA, VOR/DME

HRV, VORTAC

SJI, VORTAC

J37 AWY

Q56 AWY

CATLN, K7, AL FIX

Q22 AWY

SPA, VORTAC

BURGG, K7, SC FIX

Q60 AWY

JAXSN, K6, VA FIX

KELCE, K6, VA FIX

DUCXS\*FIVE (RNAV) STAR

DELETED

DELETED

ADDED

DELETED

ADDED

IAH\*IAD\*H\*1

NFDD 137 - 13

07/19/2022

GEORGE BUSH INTCNTL/HOUSTON TO WASHINGTON DULLES INTL

AIRCRAFT TURBOJETS

ROUTE DIRECTION IAH EAST FLOW

ROUTE CONFIGURATION

GUMBY\*THREE (RNAV) DP

GUSTI, K4, LA FIX

Q22 AWY

SPA, VORTAC

BURGG, K7, SC FIX

Q60 AWY

JAXSN, K6, VA FIX

DORRN, K6, VA FIX

CAVLR\*FOUR (RNAV) STAR

DELETED

ADDED

IAH\*IAD\*H\*2

NFDD 137 - 14

07/19/2022

GEORGE BUSH INTCNTL/HOUSTON TO WASHINGTON DULLES INTL

AIRCRAFT TURBOJETS

ROUTE DIRECTION IAH WEST FLOW

ROUTE CONFIGURATION

MMUGS\*FOUR (RNAV) DP

GUSTI, K4, LA FIX

Q22 AWY

SPA, VORTAC

BURGG, K7, SC FIX

Q60 AWY

JAXSN, K6, VA FIX

DELETED

ADDED

DORRN, K6, VA FIX  
CAVLR\*FOUR (RNAV) STAR

IAH\*LGA\*H\*1

NFDD 137 - 15

07/19/2022

GEORGE BUSH INTCNTL/HOUSTON TO LAGUARDIA

ROUTE DIRECTION IAH EAST FLOW

ROUTE CONFIGURATION

GUMBY\*THREE (RNAV) DP

GUSTI, K4, LA FIX

Q22 AWY

SPA, VORTAC

DELETED

BURGG, K7, SC FIX

ADDED

Q60 AWY

JAXSN, K6, VA FIX

HPW, VORTAC

HUBBS, K6, VA FIX

PXT, VORTAC

KORRY\*FOUR STAR

IAH\*LGA\*H\*2

NFDD 137 - 16

07/19/2022

GEORGE BUSH INTCNTL/HOUSTON TO LAGUARDIA

ROUTE DIRECTION IAH WEST FLOW

ROUTE CONFIGURATION

MMUGS\*FOUR (RNAV) DP

GUSTI, K4, LA FIX

Q22 AWY

SPA, VORTAC

DELETED

BURGG, K7, SC FIX

ADDED

Q60 AWY

JAXSN, K6, VA FIX

HPW, VORTAC

HUBBS, K6, VA FIX

PXT, VORTAC

KORRY\*FOUR STAR

IAH\*RIC\*H\*1

NFDD 137 - 17

07/19/2022

GEORGE BUSH INTCNTL/HOUSTON TO RICHMOND INTL

AIRCRAFT TURBOJETS & TURBOPROPS

ROUTE DIRECTION IAH EAST FLOW

ROUTE CONFIGURATION

GUMBY\*THREE (RNAV) DP

GUSTI, K4, LA FIX

Q22 AWY

SPA, VORTAC

DELETED

BURGG, K7, SC FIX

ADDED

Q60 AWY

JAXSN, K6, VA FIX

KELCE, K6, VA FIX

DUCXS\*FIVE (RNAV) STAR

IAH\*RIC\*H\*2

NFDD 137 - 18

07/19/2022

GEORGE BUSH INTCNTL/HOUSTON TO RICHMOND INTL

AIRCRAFT TURBOJETS & TURBOPROPS

ROUTE DIRECTION	IAH WEST FLOW		
ROUTE CONFIGURATION			
MMUGS*FOUR (RNAV) DP			
GUSTI, K4, LA FIX			
Q22 AWY			
SPA, VORTAC			DELETED
BURGG, K7, SC FIX			ADDED
Q60 AWY			
JAXSN, K6, VA FIX			
KELCE, K6, VA FIX			
DUCXS*FIVE (RNAV) STAR			
MEM*BOS*H*2		<b>NFDD 137 - 19</b>	07/19/2022
MEMPHIS INTL TO GENERAL EDWARD LAWRENCE LOGAN INTL			
ROUTE CONFIGURATION			
AZONE*SEVEN (RNAV) DP			
AZONE, K7, TN FIX			
SALMS, K7, TN FIX			
SPA, VORTAC			DELETED
BURGG, K7, SC FIX			ADDED
Q22 AWY			
RBV, VORTAC			
Q419 AWY			
JFK, VOR/DME			
ROBUC*THREE (RNAV) STAR			
MSY*IAD*H*2		<b>NFDD 137 - 20</b>	07/19/2022
LOUIS ARMSTRONG NEW ORLEANS INTL TO WASHINGTON DULLES INTL			
SPECIAL AREA	FROM NEW ORLEANS METRO(MSY,NEW)		
ROUTE CONFIGURATION			
CATLN, K7, AL FIX			
Q22 AWY			
SPA, VORTAC			DELETED
BURGG, K7, SC FIX			ADDED
Q60 AWY			
JAXSN, K6, VA FIX			
DORRN, K6, VA FIX			
CAVLR*FOUR (RNAV) STAR			
MSY*LGA*H*1		<b>NFDD 137 - 21</b>	07/19/2022
LOUIS ARMSTRONG NEW ORLEANS INTL TO LAGUARDIA			
SPECIAL AREA	FROM NEW ORLEANS METRO(MSY,NEW)		
ROUTE CONFIGURATION			
CATLN, K7, AL FIX			
Q22 AWY			
SPA, VORTAC			DELETED
BURGG, K7, SC FIX			ADDED
Q60 AWY			
JAXSN, K6, VA FIX			
HPW, VORTAC			
HUBBS, K6, VA FIX			
PXT, VORTAC			
KORRY*FOUR STAR			



SAT\*IAD\*H\*1  
SAN ANTONIO INTL TO WASHINGTON DULLES INTL

NFDD 137 - 22 07/19/2022

ROUTE CONFIGURATION

CHURN, K4, TX FIX

Q56 AWY

CATLN, K7, AL FIX

Q22 AWY

SPA, VORTAC

BURGG, K7, SC FIX

Q60 AWY

JAXSN, K6, VA FIX

DORRN, K6, VA FIX

CAVLR\*FOUR (RNAV) STAR

DELETED

ADDED

SAT\*IAD\*H\*2  
SAN ANTONIO INTL TO WASHINGTON DULLES INTL

NFDD 137 - 23 07/19/2022

ROUTE CONFIGURATION

CHURN, K4, TX FIX

Q56 AWY

BLUMS, K4, TX FIX

IAH, VORTAC

J101 AWY

LFK, VORTAC

SUTTN, K4, AR FIX

J29 AWY

CARIN, K4, AR FIX

MEMFS, K7, TN FIX

Q34 AWY

WAKOL, K7, TN FIX

BNA, VORTAC

HITMN, K7, TN FIX

HVQ, VOR/DME

GIBBZ\*FOUR (RNAV) STAR

DELETED

DELETED

ADDED

SAT\*LGA\*H\*1  
SAN ANTONIO INTL TO LAGUARDIA

NFDD 137 - 24 07/19/2022

ROUTE CONFIGURATION

CHURN, K4, TX FIX

Q56 AWY

CATLN, K7, AL FIX

Q22 AWY

SPA, VORTAC

BURGG, K7, SC FIX

Q60 AWY

JAXSN, K6, VA FIX

HPW, VORTAC

HUBBS, K6, VA FIX

PXT, VORTAC

KORRY\*FOUR STAR

DELETED

ADDED

**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>ACTUAL EFFECTIVE DATE</u>
MEADOW LAKE	FIVE	MEDOW5.MSP	FOUR	08/17/2017	8 SEP 2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**TAKEOFF RWY 17:** CLIMB ON HEADING 169.53 TO HUSHH/MSP VOR/DME 3.53 DME THEN RIGHT TURN HEADING 245.00 AND CONTINUE CLIMB THEN ON VECTORS TO ASSIGNED ROUTE/FIX, EXPECT CLEARANCE TO ASSIGNED ALTITUDE/FLIGHT LEVEL TEN 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>
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**PROCEDURAL DATA NOTES:**

**PBN REQUIREMENTS NOTES:**

**EQUIPMENT REQUIREMENT NOTES:**

RADAR AND DME REQUIRED.

**TAKEOFF MINIMUMS:**

RWY 17: STANDARD.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

**MSA:**

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: ASSIGNED BY ATC.

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMSP	MINNEAPOLIS	MN

**COMMUNICATIONS:**

CHART: ATIS, CLEARANCE DELIVERY, TOWER.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
MEADOW LAKE	FIVE	MEDOW5.MSP	FOUR	08/17/2017	8 SEP 2022

**FIXES AND/OR NAVAIDS:**

FAR VOR/DME, DLH VORTAC, GRB VORTAC, RAP VORTAC, FGT VORTAC, FSD VORTAC, DLL VORTAC, OVR VORTAC, DSM VORTAC, STJ VORTAC, MCI VORTAC, ABR VOR/DME.

**REMARKS:**

ABBREVIATED AMENDMENT

**FLIGHT INSPECTED BY**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/ VALIDATION.

**OFFICE**

**DATE**

**DEVELOPED BY**

DONALD LANIER (MICAH HILLEY)

*Digitally signed by*  
**DONALD H LANIER**

Mar 29, 2022

*Digitally signed by*  
**DONALD H LANIER**  
Mar 29, 2022

**OFFICE**

AJV-A431

**DATE**

03/07/2022

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*  
**DONALD H LANIER**  
Mar 29, 2022

**OFFICE**

AJV-A430

**DATE**

**TITLE**

MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZMP, MSP ATCT, AMGR

**CHANGES - REASONS:**

- 1: CHANGED DEPARTURE ROUTE DESCRIPTION FROM: CLIMB ON HEADING 169.53 TO HUSHH/MSP VOR/DME 3.53 DME THEN RIGHT TURN HEADING 245.00 AND CONTINUE CLIMB (TURBOJET AIRCRAFT MAINTAIN 7000 OR LOWER AS ASSIGNED, ALL OTHER AIRCRAFT MAINTAIN 5000 (OR LOWER AS ASSIGNED). THEN ON VECTORS TO ASSIGNED ROUTE/FIX. EXPECT CLEARANCE TO ASSIGNED ALTITUDE/FLIGHT LEVEL TEN MINUTES AFTER DEPARTURE TO: CLIMB ON HEADING 169.53 TO HUSHH/MSP VOR/DME 3.53 DME THEN RIGHT TURN HEADING 245.00 AND CONTINUE CLIMB THEN ON VECTORS TO ASSIGNED ROUTE/FIX, EXPECT CLEARANCE TO ASSIGNED ALTITUDE/FLIGHT LEVEL TEN MINUTES AFTER DEPARTURE - 8260.46H SECTION 2 (3).
- 2: CHANGED ADDITIONAL FLIGHT DATA FROM: CHART TOP ALTITUDE: (JETS) 7000/(PROPS) 5000 TO: CHART TOP ALTITUDE: ASSIGNED BY ATC - 8260.46H SECTION 2 (12) (B); FPT REQUEST.
- 3: FIXES AND/OR NAVAIDS: REMOVED ODI VORTAC, FOD VORTAC, ONL VORTAC, FCM VOR/DME, AND RST VOR/DME - 8260.46H SECTION 2 (15); FPT REQUEST.
- 4: UPDATED TAKEOFF NOTES TO: SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP) - 8260.46H APPENDIX D SECTION 2 (9).
- 5: REMOVED AIRPORT NAME FROM AIRPORTS SERVED - 8260.46H APPENDIX D SECTION 2 (13).
- 6: REMOVED DEPARTURE CONTROL SOUTH OR EAST, DEPARTURE CONTROL NORTH OR WEST FROM COMMUNICATIONS - 8260.46H APPENDIX D SECTION 2 (14).
- 7: CHANGED PROCEDURAL DATA NOTE FROM: NOTE: RADAR AND DME REQUIRED TO: RADAR AND DME REQUIRED; MOVED FROM PROCEDURAL DATA NOTES TO EQUIPMENT NOTES - 8260.46H APPENDIX D SECTION 2 (6) & (7).
- 8: TAKEOFF MINIMUMS: REMOVED ALL OTHER RUNWAYS: NA - ATC REQUEST - NOT REQUIRED.



**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>ACTUAL EFFECTIVE DATE</u>
MINNEAPOLIS	NINE	MSP9.MSP	EIGHT	08/17/2017	8 SEP 2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**TAKEOFF ALL RUNWAYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ALL AIRCRAFT:** ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS: IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES ADVISE ATC PRIOR TO TAXI.

**RWY 12L/R DEPARTURES:** FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500.

**RWY 17:** FOR ASSIGNED HEADINGS FROM 230 CLOCKWISE TO 285, CROSS MSP 7 DME AT OR ABOVE 3500, 512 FEET PER NM TO 3500.

**RWY 30L/R:** FOR ASSIGNED HEADINGS FROM 220 CLOCKWISE TO 360, CROSS MSP 7 DME AT OR ABOVE 3500, 380 FEET PER NM TO 3500.

**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:**

**PBN REQUIREMENTS NOTES:**

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

**TAKEOFF MINIMUMS:**

**RWYS 12R, 17, 22:** STANDARD.

**RWY 4:** STANDARD WITH MINIMUM CLIMB OF 202 TO 2400

**RWY 12L:** STANDARD WITH MINIMUM CLIMB OF 277 TO 1100.

**RWY 30L:** STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000.

**RWY 30R:** STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000.

**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2000.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

**RWY 4:** 2438 FT MSL TOWER 450344.83N/0930822.61W.

**RWY 12L:** 979 FT MSL TRANSMISSION LINE 445235.36N/0931010.19W.

**RWY 30L:** 1743 FT MSL BLDG 445834.00N/0931621.00W.

**RWY 30R:** 1743 FT MSL BLDG 445834.00N/0931621.00W.

**RWY 35:** 1743 FT MSL BLDG 445834.00N/0931621.00W.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
MINNEAPOLIS	NINE	MSP9.MSP	EIGHT	08/17/2017	8 SEP 2022

**MSA:**

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: ASSIGNED BY ATC.

CHART: KSTP, KANE, KMIC, AND KFCM.

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMSP	MINNEAPOLIS	MN

**COMMUNICATIONS:**

CHART: ATIS, CLEARANCE DELIVERY, TOWER.

**FIXES AND/OR NAVAIDS:**

FAR VOR/DME, DLH VORTAC, GRB VORTAC, RAP VORTAC, FSD VORTAC, DLL VORTAC, OVR VORTAC, DSM VORTAC, STJ VORTAC, MCI VORTAC, ABR VOR/DME.

**REMARKS:**

WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS

APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM.

**FLIGHT INSPECTED BY**

DEAN D BROWN

*Digitally signed by*  
**CASIMIR L TABAKA**  
May 25, 2022

**OFFICE**                      **DATE**  
FPO                              05/04/2022

**DEVELOPED BY**

DONALD LANIER (MICAH HILLEY)

*Digitally signed by*  
**CASIMIR L TABAKA**  
May 25, 2022

**OFFICE**                      **DATE**  
AJV-A431                      02/16/2022

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*  
**CASIMIR L TABAKA**  
May 25, 2022

**OFFICE**                      **DATE**                      **TITLE**  
AJV-A430                                                                MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

**A4A**     **ALPA**     **AOPA**     **APA**     **HAI**     **NBAA**     **OTHER:** ZMP, MSP ATCT, AMGR

**CHANGES - REASONS:**

1: CHANGED DEPARTURE ROUTE DESCRIPTION DME EQUIPPED AIRCRAFT RWY 12L/R FROM: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500. MAINTAIN ASSIGNED ALTITUDE, IF UNABLE TO COMPLY ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE TO: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500 - ATC REQUEST; DOES AWAY WITH THE MSP CROSSING RESTRICTIONS AT 7 DME THAT WERE PREVIOUSLY PUBLISHED.

2: CHANGED DEPARTURE ROUTE DESCRIPTION NON-DME EQUIPPED AIRCRAFT RWY 12L/R FROM: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS FGT R-010 AT OR ABOVE 3500. MAINTAIN ASSIGNED ALTITUDE, IF UNABLE TO COMPLY ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE TO: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS FGT R-010 AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500 - ATC REQUEST; DOES AWAY WITH THE MSP CROSSING RESTRICTIONS AT 7 DME THAT WERE PREVIOUSLY PUBLISHED.

3: CHANGED DEPARTURE ROUTE DESCRIPTION TAKEOFF RUNWAY 17 DEPARTURES FROM: FOR ASSIGNED HEADINGS FROM 230 CLOCKWISE TO 285 CROS MSP 7 DME AT 3500, MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE TO: RWY 17: FOR ASSIGNED HEADINGS FROM 230 CLOCKWISE TO 285, CROSS MSP 7



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
MINNEAPOLIS	NINE	MSP9.MSP	EIGHT	08/17/2017	8 SEP 2022

DME AT OR ABOVE 3500, 512 FEET PER NM TO 3500 - ATC REQUEST; DOES AWAY WITH THE MSP CROSSING RESTIRCTIONS AT 7 DME THAT WERE PREVIOUSLY PUBLISHED.  
 4: CHANGED DEPARTURE ROUTE DESCRIPTION TAKEOFF RUNWAY 30L/R DEPARTURES FROM: FOR ASSIGNED HEADINGS FROM 220 CLOCKWISE TO 360 CROS MSP 7 DME AT 3500, MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE TO: RWY 30L/R: FOR ASSIGNED HEADINGS FROM 220 CLOCKWISE TO 360, CROSS MSP 7 DME AT OR ABOVE 3500, 380 FEET PER NM TO 3500. - ATC REQUEST; DOES AWAY WITH THE MSP CROSSING RESTIRCTIONS AT 7 DME THAT WERE PREVIOUSLY PUBLISHED.  
 5: DELETED PROCEDURAL DATA NOTE: DME REQUIRED FOR RWY 17, 30L/R DEPARTURES - ADDED ATC CLIMB GRADIENTS TO ENSURE AIRCRAFT ARE AT 3500 FT AT 7 DME; FPT REQUEST.  
 6: CHANGED RWY 12L TAKEOFF MINIMUMS FROM: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 207 FT PER NM CLIMB GRADIENT, TAKE OFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DER TO: STANDARD - 8260.46H APPENDIX D SECTION 2 6(B); NEW EVALUATION.  
 7: CHANGED RWY 30L TAKEOFF MINIMUMS FROM: STANDARD TO: STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 2100 - 8260.46H APPENDIX D SECTION 2 6(C); NEW EVALUATION.  
 8: CHANGED RWY 30R TAKEOFF MINIMUMS FROM: STANDARD TO: STANDARD WITH A MINIMUM CLIMB OF 220 FT PER NM TO 2100 - 8260.46H APPENDIX D SECTION 2 6(C); NEW EVALUATION.  
 9: DELETED RWY 12L CONTROLLING OBSTACLE - 8260.46H APPENDIX D SECTION 2 10(A); NEW EVALUATION.  
 10: CHANGED ADDITIONAL FLIGHT DATA NOTE: CHART TOP ALTITUDE FROM: (JETS) 7000/(PROPS) 5000 TO: CHART: TOP ALTITUDE: ASSIGNED BY ATC - 8260.46H APPENDIX D SECTION 2 12(B).  
 11: REMOVED TAKEOFF OBSTACLE NOTES - 8260.46H APPENDIX D SECTION 2 (9).  
 12: REMOVED AIRPORT NAME FROM AIRPORTS SERVED - 8260.46H APPENDIX D SECTION 2 (13).  
 13: CHANGED COMMUNICATIONS FROM : ATIS, CLEARNACE DELIVERY, DEPARTURE CONTROL SOUTH OR EAST, DEPARTURE CONTROL NORTH OR WEST, TOWER TO: CHART: ATIS, CLEARANCE, DELIVERY, TOWER - 8260.46H APPENDIX D SECTION 2 (14).  
 14: DELETED FCM VOR/DME, FOD VORTAC, ODI VORTAC, ONL VORTAC, RST VOR/DME FROM FIXES AND/OR NAVAIDS - 8260.46H APPENDIX D SECTION 2 (15); VOR MON; FPT REQUEST.  
 15: ADDED "WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS" AND"APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM" TO REMARKS - 8260.46H APPENDIX D SECTION 2 (11).  
 16: ADDED DEPARTURE ROUTE DESCRIPTION: ALL AIRCRAFT: ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS: IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES ADVISE ATC PRIOR TO TAXI - 8260.46H APPENDIX D SECTION 2 3(A) & (B).

05/17/2022: THIS IS AN UPDATED COPY OF THE FORM APPROVED ON 05/02/2022.

1: CHANGED DEPARTURE ROUTE DESCRIPTION TAKE OFF ALL RUNWAYS FROM: FLY ASSIGNED HEADING FOR RADAR VECTORS TO JOIN FILED/ASSIGNED ROUTE. TURBOJET AIRCRAFT MAINTAIN 7000 OR LOWER ASSIGNED ALTITUDE. ALL OTHER AIRCRAFT MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE. EXPECT CLEARANCE TO ASSIGNED ALTITUDE/FLIGHT LEVEL TEN MINUTES AFTER DEPARTURE TO: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.  
 2: CHANGED DEPARTURE ROUTE DESCRIPTION FROM: DME EQUIPPED AIRCRAFT RWY 12L/R DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500 TO: RWY 12L/R DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500.  
 3: REOMVED NON-DME EQUIPPED AIRCRAFT RWY 12 L/R DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS FGT R-010 AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500,12R: 542 FEET PERNM TO 3500.  
 4: CHANGED RWY 4 TAKEOFF MINIMUMS FROM: STANDARD TO: STANDARD WITH MINIMUM CLIMB 202 TO 2400.  
 5: CHANGED RWY 12L TAKEOFF MINIMUMS FROM: STANDARD TO: STANDARD WITH MINIMU CLIMB 277 TO 1100.  
 6: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 30L FROM: STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 2100 TO: STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000.  
 7: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 30R FROM: STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 2100 TO: STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000.  
 8: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 35 FROM: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100 TO: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2000.  
 9: ADDED CHART: KSTP, KANE, KMIC, AND KFCM TO ADDITIONAL FLIGHT DATA.



**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>ACTUAL EFFECTIVE DATE</u>
ORSKY	THREE	ORSKY3.ORSKY	TWO	02/28/2019	8 SEP 2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN:**

**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ALL AIRCRAFT:** ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS: IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES ADVISE ATC PRIOR TO TAXI.

**RWY 12L/R DEPARTURES:** FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500.

**RWY 17:** FOR ASSIGNED HEADINGS FROM 230 CLOCKWISE TO 285, CROSS MSP 7 DME AT OR ABOVE 3500, 512 FEET PER NM TO 3500.

**RWY 30L/R:** FOR ASSIGNED HEADINGS FROM 220 CLOCKWISE TO 360, CROSS MSP 7 DME AT OR ABOVE 3500, 380 FEET PER NM TO 3500.

**FLYING CLOUD, ANOKA COUNTY-BLAINE (JANES FIELD):**

**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ST PAUL DOWNTOWN HOLMAN FLD:**

**RWY 9:** CLIMB ON HEADING 090.66 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...

**RWY 13:** CLIMB ON HEADING 127.74 TO 1300 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...

**RWY 14:** CLIMB ON HEADING 146.03 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...

**RWY 27:** CLIMB ON HEADING 270.67 TO 1700 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...

**RWY 32:** CLIMB ON HEADING 326.04 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...

...ON TRANSITION OR ASSIGNED ROUTE. EXPECT FILED ALTITUDE 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>
ONTIJ	ORSKY3.ONTIJ	ORSKY INT	ONTIJ INT	208.36 (MSP R-208)	25.66	9000	2600	ORSKY AT OR ABOVE 9000 (MRA) ONTIJ AT OR ABOVE 12000 (MRA)

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ORSKY	THREE	ORSKY3.ORSKY	TWO	02/28/2019	8 SEP 2022

**PROCEDURAL DATA NOTES:****PBN REQUIREMENTS NOTES:****EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

**TAKEOFF MINIMUMS:****MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN:****RWYS 12R, 17, 22:** STANDARD.**RWY 4:** STANDARD WITH MINIMUM CLIMB OF 202 FT PER NM TO 2400.**RWY 12L:** STANDARD WITH MINIMUM CLIMB OF 277 FT PER NM TO 1100.**RWY 30L:** STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000.**RWY 30R:** STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000.**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2000.**ST PAUL DOWNTOWN HOLMAN FLD:****RWY 31:** NA-OBSTACLES.**RWY 14:** STANDARD.**RWY 9:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 1300.**RWY 13:** STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1500.**RWY 27:** 600-2 OR STANDARD WITH MINIMUM CLIMB OF 442 FT PER NM TO 1500.**RWY 32:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 3000.**FLYING CLOUD:****RWYS: 10L/R, 18, 28L/R, 36:** STANDARD.**ANOKA COUNTY-BLAINE (JANES FIELD):****RWY 9:** STANDARD WITH A MINIMUM CLIMB OF 341 FT PER NM TO 3000.**RWY 18:** STANDARD WITH A MINIMUM CLIMB OF 371 FT PER NM TO 3000.**RWY 27:** STANDARD WITH A MINIMUM CLIMB OF 259 FT PER NM TO 2800.**RWY 36:** STANDARD WITH A MINIMUM CLIMB OF 259 FT PER NM TO 2800.**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:****MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN:****RWY 4:** 2438 FT MSL TOWER 450344.83N/0930822.61W.**RWY 12L:** 979 FT MSL TRANSMISSION LINE 445235.36N/0931010.19W.**RWY 30L:** 1743 FT MSL BLDG 445834.00N/0931621.00W.**RWY 30R:** 1743 FT MSL BLDG 445834.00N/0931621.00W.**RWY 35:** 1743 FT MSL BLDG 445834.00N/0931621.00W.**ST PAUL DOWNTOWN HOLMAN FLD:****RWY 9:** 977 FT MSL TREE 445624.13N/0930133.24W (CLIMB GRADIENT), 1058 FT MSL TREE 445602.98N/0930100.41W (CLIMB-TO-ALTITUDE).**RWY 13:** 1238 FT MSL TOWER 445440.64N/0925910.72W.**RWY 14:** 1238 FT MSL TOWER 445440.64N/0925910.72W (CLIMB GRADIENT), 2376 FT MSL TOWER 450330.00N/0930728.00W (CLIMB-TO-ALTITUDE).**RWY 27:** 1279 FT MSL STACK 445600.44N/0930631.02W.**RWY 32:** 973 FT MSL POLE 445730.10N/0930432.14W (CLIMB GRADIENT), 2376 FT MSL TOWER 450330.00N/0930728.00W (CLIMB-TO-ALTIUDE).



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ORSKY	THREE	ORSKY3.ORSKY	TWO	02/28/2019	8 SEP 2022

**ANOKA COUNTY-BLAINE (JANES FIELD):**

**RWY 9, 18, 27, 36:** 2438 FT MSL TOWER 450345.00N/0930822.00W.

**MSA:**

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

**ALL AIRPORTS - CHART: TOP ALTITUDE:** ASSIGNED BY ATC.

**CHART:** FGT R-258 AT JURNY, FOW R-318 AT RUMLE, FOW R-268 AT PEDLN, MCW R-306 AT ORSKY, MCW R-278 AT ONTIJ.

**CHART:** KSTP, KANE, KMIC, AND KFCM ON MSP PROCEDURE.

**CHART:** KMSP ON KSTP, KANE, KMIC, AND KFCM PROCEDURES.

**CHART:** AT OR ABOVE 9000 AT PEDLN (MRA).

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMSP	MINNEAPOLIS	MN
KSTP	ST PAUL	MN
KFCM	MINNEAPOLIS	MN
KANE	MINNEAPOLIS	MN

**COMMUNICATIONS:**

CHART ATIS, CLEARANCE DELIVERY, CPDLC, ATCT.

**FIXES AND/OR NAVAIDS:**

**REMARKS:**

WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS

APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM.

**FLIGHT INSPECTED BY**

DEAN D BROWN  
*Digitally signed by*  
**DONALD H LANIER**  
 Jun 02, 2022

**OFFICE**

FPO

**DATE**

05/04/2022

**DEVELOPED BY**

DONALD LANIER (MICAH HILLEY)  
*Digitally signed by*  
**DONALD H LANIER**  
 Jun 02, 2022

**OFFICE**

AJV-A431

**DATE**

03/08/2022

**APPROVED BY**

LONNIE EVERHART  
*Digitally signed by*  
**DONALD H LANIER**  
 Jun 02, 2022

**OFFICE**

AJV-A430

**DATE**

**TITLE**

MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE



DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
ORSKY	THREE	ORSKY3.ORSKY	TWO	02/28/2019	8 SEP 2022

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZMP, ATCT, AMGR

**CHANGES - REASONS:**

1. INCORPORATED FDC NOTAM 2/0043
2. CHANGED KMSP RWY 4 ROUTE DESCRIPTION FROM: CLIMB HEADING 045.00 TO 2100 BEFORE TURNING LEFT TO: CLIMB ON HEADING 045.00 TO 2100 BEFORE TURNING LEFT - 8260.46H 2-1-1 G.
3. CHANGED KSTP ROUTE DESCRIPTION FOR RWYS 9, 13, 14, 27, 32 FROM: "CLIMB HEADING" TO: "CLIMB ON HEADING" - 8260.46H 2-1-1- G.
4. CHANGED KANE ROUTE DESCRIPTION FOR RWY 36 FROM: "CLIMB HEADING TO: "CLIMB ON HEADING" - 8260.46H 2-1-1 G.
5. CHANGED KMSP ROUTE DESCRIPTION DME EQUIPPED AIRCRAFT **RWY 12L/R** DEPARTURES FROM: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500. MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE. THENCE... TO: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500 - ADDED ATC CLIMB GRADIENT TO ENSURE AIRCRAFT REACH 3500 AT 7 DME; ATC REQUEST.
6. REMOVED FROM KMSP DP ROUTE DESCRIPTION: NON-DME EQUIPPED AIRCRAFT **RWY 12L/R** DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS FGT R-010 AT OR ABOVE 3500. MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE. THENCE... - ADDED ATC CLIMB GRADIENT TO ENSURE AIRCRAFT REACH 3500 AT 7 DME; ATC REQUEST.
7. CHANGED DEPARTURE ROUTE DESCRIPTION TAKEOFF RUNWAY 17 DEPARTURES FROM: FOR ASSIGNED HEADINGS FROM 230 CLOCKWISE TO 285, CROSS MSP 7 DME AT OR ABOVE 3500. MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE. THENCE... TO: FOR ASSIGNED HEADINGS FROM 230 CLOCKWISE TO 285, CROSS MSP 7 DME AT OR ABOVE 3500, 512 FEET PER NM TO 3500 - ADDED ATC CLIMB GRADIENT TO ENSURE AIRCRAFT REACH 3500 AT 7 DME; ATC REQUEST.
8. CHANGED DEPARTURE ROUTE DESCRIPTION TAKEOFF RUNWAY 30L/R DEPARTURES FROM: FOR ASSIGNED HEADINGS FROM 220 CLOCKWISE TO 360, CROSS MSP 7 DME AT OR ABOVE 3500. MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE. THENCE... TO: FOR ASSIGNED HEADINGS FROM 220 CLOCKWISE TO 360, CROSS MSP 7 DME AT OR ABOVE 3500, 380 FEET PER NM TO 3500 - ADDED ATC CLIMB GRADIENT TO ENSURE AIRCRAFT REACH 3500 AT 7 DME; ATC REQUEST.
9. REMOVED FOD TRANSITION - FOD VORMON; ATC REQUEST.
10. REMOVED OMAHA TRANSITION AND ADDED ONTIJ TRANSITION - REMOVED OMAHA TRANSITION FROM PROCEDURE USE; ATC REQUEST.
11. MOVED PROCEDURAL DATA NOTE RADAR REQUIRED TO EQUIPMENT NOTES - 8260.46H APPENDIX D SECTION 2 (6) & (7).
12. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM: CHART: FGT R-258 AT JURNY, FOW R-318 AT RUMLE, FOW R-268 AT PEDLN, MCW R-306 AT ORSKY, MCW R-278 AT ONTIJ, FOD R-312 AT GOOLD, FOD R-294 AT SIMJI, DSM R-308 AT EYHUX, DSM R-281 AT TODDO TO: FGT R-258 AT JURNY, FOW R-318 AT RUMLE, FOW R-268 AT PEDLN, MCW R-306 AT ORSKY, MCW R-278 AT ONTIJ - END SID AT ONTIJ; PER ATC REQUEST.
13. CHANGED KMSP TAKEOFF MINIMUMS RWY 12L FROM: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 207 FT PER NM TO 1100, 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: STANDARD; RWY 30L FROM: STANDARD TO: STANDARD WITH A MINIMUM CLIMB OF 210 FT PER NM TO 2100; RWY 30R FROM: STANDARD TO: STANDARD WITH A MINIMUM CLIMB OF 220 FT PER NM TO 2100 - NEW CONTROLLING OBSTACLES.
14. ADDED CONTROLLING OBSTACLE TO KMSP RWYS 30L/R: 1743 FT MSL BUILDING - 8260.19I APPENDIX D SECTION 2 10(A); NEW EVALUATION.
15. REMOVED CONTROLLING OBSTACLE FROM KMSP RWY 12L - 8260.19I APPENDIX D SECTION 2 10(A); NEW EVALUATION.
16. CHANGED CONTROLLING OBSTACLE KSTP RWY 9 FROM: 1099 FT MSL TREE 445605.23N/0930103.53W TO: 977 FT MSL TREE 445624.13N/0930133.24W (CLIMB GRADIENT), 1058 FT MSL TREE 445602.98N/0930100.41W (CLIMB-TO-ALTITUDE) - 8260.19I APPENDIX D SECTION 2 10(A); NEW EVALUATION.
17. CHANGED CONTROLLING OBSTACLE KSTP RWY 14 FROM: 1239 FT MSL AAO 445345.20N/0925922.28W TO: 1238 FT MSL TOWER 445440.64N/0925910.72W (CLIMB GRADIENT), 2376 FT MSL TOWER 450330.00N/0930728.00W (CLIMB-TO-ALTITUDE) - 8260.19I APPENDIX D SECTION 2 10(A); NEW EVALUATION.
18. CHANGED CONTROLLING OBSTACLE KSTP RWY 32 FROM: 973 FT MSL POLE 445730.00N/0930432.00W TO: 973 FT MSL POLE 445730.00N/0930432.00W (CLIMB GRADIENT), 2376 FT MSL TOWER 450330.10N/0930728.14W (CLIMB-TO-ALTITUDE) - 8260.19I APPENDIX D SECTION 2 10(A); NEW EVALUATION.
19. ADDED "WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS", AND "APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM" TO REMARKS - 8260.46H
20. CHANGED COMMUNICATIONS FROM: ATIS, CLEARANCE DELIVERY, DEPARTURE CONTROL SOUTH OR EAST, DEPARTURE CONTROL NORTH OR WEST, CPDLC, ATCT TO: CHART ATIS, CLEARANCE DELIVERY, CPDLC, ATCT - 8260.46H APPENDIX D SECTION 2 (14).
21. ADDED DEPARTURE ROUTE DESCRIPTION: ALL AIRCRAFT: ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS: IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES ADVISE ATC PRIOR TO TAXI - 8260.46H APPENDIX D SECTION 2 3(A) & (B).



05/17/2022: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/08/2022.

1. CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN DEPARTURE ROUTE DESCRIPTION FROM: TAKEOFF ALL RWYS: FLY ASSIGNED HEADING FOR RADAR VECTORS TO MSP R-208 TO ORSKY INT/MSP 85.00 DME. MAINTAIN ATC ASSIGNED ALTITUDE TO: TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.
2. REMOVED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN DEPARTURE ROUTE DESCRIPTION RWY 4: CLIMB ON HEADING 045.00 TO 2100 BEFORE TURNING LEFT.
3. CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN DEPARTURE ROUTE DESCRIPTION FROM: DME EQUIPPED AIRCRAFT RWY 12L/R DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500 TO: RWY 12L/R DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, RWY 12L: 540 FEET PER NM TO 3500, 12R: 542 FEET PER NM TO 3500.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ORSKY	THREE	ORSKY3.ORSKY	TWO	02/28/2019	8 SEP 2022

- 4: CHANGED FLYING CLOUD DEPARTURE ROUTE DESCRIPTION FROM: TAKEOFF ALL RWYS: FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... TO: TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.
- 5: CHANGED ANOKA COUTNY-BLAINE (JANES FIELD) DEPARTURE ROUTE DESCRIPTION FROM: RWYS 9, 18, 27: FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... AND RWY 36: CLIMB ON HEADING 358.68 TO 1700 BEFORE PROCEEDING SOUTHEAST BOUND FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... TO: TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.
- 6: REMOVED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN DEPARTURE ROUTE DESCRIPTION RWY 22,35: INITIALLY ASSIGNED HEADING. THENCE...
- 7: ADDED ORSKY AT OR ABOVE 9000 (MRA) TO ONTIJ TRANSITION.
- 8: ADDED CHART: KSTP, KANE, KMIC, AND KFCM ON MSP PROCEDURES TO ADDITIONAL FLIGHT DATA.
- 9: ADDED CHART: AT OR ABOVE 9000 AT PEDLN (MRA) TO ADDITIONAL FLIGHT DATA.
- 10: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 4 FROM: STANDARD TO: STANDARD WITH MINIMUM CLIMB OF 202 FT PER NM TO 2400.
- 11: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 12L FROM: STANDARD TO: STANDARD WITH MINIMUM CLIMB OF 277 FT PER NM TO 1100.
- 12: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 30L FROM: STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 2100 TO: STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000.
- 13: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 30R FROM: STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 2100 TO: STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000.
- 14: CHANGED MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN TAKEOFF MINIMUMS RWY 35 FROM: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100 TO: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2000.
- 15: ADDED RWY 4: 2438 FT MSL TOWER 450344.83N/0930822.61W AND RWY 12L: 979 FT MSL TRANSMISSION LINE 445235.36N/0931010.19W TO CONTROLLING OBSTACLES.
- 16: CHANGED ST PAUL DOWNTOWN HOLMAN FLD RWY 9 DEPARTURE ROUTE DESCRIPTION FROM: CLIMB ON HEADING 090.66 TO 1400 FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... TO: CLIMB ON HEADING 090.66 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...
- 17: CHANGED ST PAUL DOWNTOWN HOLMAN FLD RWY 13 DEPARTURE ROUTE DESCRIPTION FROM: CLIMB ON HEADING 127.74 TO 1300 FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... TO: CLIMB ON HEADING 127.74 TO 1300 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...
- 18: CHANGED ST PAUL DOWNTOWN HOLMAN FLD RWY 14 DEPARTURE ROUTE DESCRIPTION FROM: CLIMB ON HEADING 146.03 TO 1400 FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... TO: CLIMB ON HEADING 146.03 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...
- 19: CHANGED ST PAUL DOWNTOWN HOLMAN FLD RWY 27 DEPARTURE ROUTE DESCRIPTION FROM: CLIMB ON HEADING 270.67 TO 1700 FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... TO: CLIMB ON HEADING 270.67 TO 1700 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...
- 20: CHANGED ST PAUL DOWNTOWN HOLMAN FLD RWY 32 DEPARTURE ROUTE DESCRIPTION FROM: CLIMB ON HEADING 326.04 TO 1400 FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-208 TO ORSKY INT/MSP 85.00 DME. THENCE... TO: CLIMB ON HEADING 326.04 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-208, THEN ON DEPICTED ROUTE TO ORSKY THENCE...
- 21: CHANGED ST PAUL DOWNTOWN HOLMAN FLD THENCE STATEMENT FROM: ...ON TRANSITION OR ASSIGNED ROUTE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL 10 MINUTES AFTER DEPARTURE TO: ..ON TRANSITION OR ASSIGNED ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.
- 22: ADDED CHART: KMSP ON KSTP, KANE, KMIC, AND KFCM PROCEDURES.



**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>ACTUAL EFFECTIVE DATE</u>
SCHEP	ONE	SCHEP1.SCHEP	NINE	08/17/2017	8 SEP 2022
<b>TYPE:</b>	<b>OBSTACLE</b>	<b>COPTER</b>	<b>SID</b>	<b>SPECIAL</b>	<b>RNAV</b>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (KMSP):**

**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ALL AIRCRAFT: ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS:** IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES, ADVISE ATC PRIOR TO TAXI.

**RWY 12L/R:** FOR ASSIGNED HEADINGS FROM 060 CW TO 100, CROSS MSP 7 DME ARC AT OR ABOVE 3500, RWY 12L: 540 FT PER NM TO 3500, 12R: 542 FT PER NM TO 3500.

**RWY 17:** FOR ASSIGNED HEADINGS FROM 230 CW TO 285, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 512 FT PER NM TO 3500.

**RWY 30L/R:** FOR ASSIGNED HEADINGS FROM 220 CW TO 360, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 380 FT PER NM TO 3500.

**FLYING CLOUD (KFCM), ANOKA COUNTY-BLAINE (JANES FLD) (KANE):**

**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ST PAUL DOWNTOWN HOLMAN FLD (KSTP):**

**TAKEOFF RWY 9:** CLIMB ON HEADING 090.66 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 13:** CLIMB ON HEADING 127.74 TO 1300 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 14:** CLIMB ON HEADING 146.04 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 27:** CLIMB ON HEADING 270.67 TO 1700 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 32:** CLIMB ON HEADING 326.04 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

... ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 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>
RXANN	SCHEP1.RXANN	SCHEP INT	RXANN INT	232.27 (MSP R-232)	25.00	9000	3100	

**PROCEDURAL DATA NOTES:**

**PBN REQUIREMENTS NOTES:**

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**TAKEOFF MINIMUMS:**

**MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (KMSP):**

**RWYS 12R, 17, 22:** STANDARD.

**RWY 4:** STANDARD WITH MINIMUM CLIMB OF 202 FT PER NM TO 2400.

**RWY 12L:** STANDARD WITH MINIMUM CLIMB OF 277 FT PER NM TO 1100.

**RWY 30L:** STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000.

**RWY 30R:** STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000.

**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
SCHEP	ONE	SCHEP1.SCHEP	NINE	08/17/2017	8 SEP 2022

**FLYING CLOUD (KFCM):**  
**RWY 10L, 10R, 18, 28L, 28R, 36:** STANDARD.

**ANOKA COUNY-BLAINE (JANES FIELD) (KANE):**  
**RWY 9:** STANDARD WITH MINIMUM CLIMB OF 341 FT PER NM TO 3000.  
**RWY 18:** STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 3000.  
**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 259 FT PER NM TO 2800.  
**RWY 36:** STANDARD WITH MINIMUM CLIMB OF 259 FT PER NM TO 2800.

**ST PAUL DOWNTOWN HOLMAN FLD (KSTP):**  
**RWY 31:** NA-OBSTACLES.  
**RWY 14:** STANDARD.  
**RWY 9:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 1300.  
**RWY 13:** STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1500.  
**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 442 FT PER NM TO 1500.  
**RWY 32:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 3000.

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

**CONTROLLING OBSTACLES:**  
**MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (KMSP):**  
**RWY 4:** 2438 FT MSL TOWER 450344.83N/0930822.61W.  
**RWY 12L:** 991 FT MSL TREE 445233.26N/0931008.66W.  
**RWYS 30L, 30R, 35:** 1743 FT MSL BUILDING 445834.00N/0931621.00W.

**ANOKA COUNTY-BLAINE (JANES FIELD) (KANE):**  
**RWY 9, 18, 27, 36:** 2438 FT MSL TOWER 450345.00N/0930822.00W.

**ST PAUL DOWNTOWN HOLMAN FLD (KSTP):**  
**RWY 9:** 1099 FT MSL TREE 445605.23N/0930103.53W.  
**RWY 13:** 1238 FT MSL TOWER 445440.64N/0925910.72W.  
**RWY 27:** 1279 FT MSL ROD ON STACK 445600.44N/0930631.02W.  
**RWY 32:** 973 FT MSL POLE 445730.00N/0930432.00W.

**MSA:**

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**  
 CHART ALTITUDE AT OR ABOVE 3100 AT ARREX.  
 CHART ALTITUDE AT OR ABOVE 7000 AT SCHEP.  
 CHART RWF R-108/30.92 AT SCHEP.  
 CHART FCM VOR/DME ON MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN ONLY.  
 CHART: TOP ALTITUDE: ASSIGNED BY ATC.  
 CHART: KMSP, KSTP, KANE, KMIC, AND KFCM.

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMSP	MINNEAPOLIS	MN



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
SCHEP	ONE	SCHEP1.SCHEP	NINE	08/17/2017	8 SEP 2022
KSTP		ST PAUL			MN
KFCM		MINNEAPOLIS			MN
KANE		MINNEAPOLIS			MN

**COMMUNICATIONS:**

CHART: ATIS, CLEARANCE DELIVERY.

**FIXES AND/OR NAVAIDS:**

HUGIR, MCONL, ARREX, FCM VOR/DME

**REMARKS:**

WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS.  
APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM.

**FLIGHT INSPECTED BY**

JEFFREY HARING

*Digitally signed by*

**ALLAN WILL**

May 31, 2022

**OFFICE**

FPO

**DATE**

11/02/2022

*Digitally signed by*

**ALLAN WILL**

May 31, 2022

**OFFICE**

AJV-A423

**DATE**

09/23/2021

*Digitally signed by*

**ALLAN WILL**

May 31, 2022

**OFFICE**

AJV-A420

**DATE**

**TITLE**

MANAGER

**APPROVED BY**

MARLON ROBINSON

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZMP, MSP ATCT, AMGR

**CHANGES - REASONS:**

1. REPLACED ALL OF MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN DP ROUTE DESCRIPTIONS WITH "TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MSP R-232 TO SCHEP INT /MSP 66.00 DME. MAINTAIN ATC ASSIGNED ALTITUDE" - ATC REQUEST TO SIMPLIFY INSTRUCTIONS BY REMOVING DME AND NON DME ROUTING AND CROSSING RESTRICTION.
2. REMOVED O'NEILL AND WOLBACH TRANSITIONS - OTG VOR MON.
3. ADDED RXANN TRANSITION - ATC REQUESTED END POINT FOR SID.
4. CHANGED ST PAUL DOWNTOWN HOLMAN FLD DP ROUTE DESCRIPTIONS ALL RUNWAYS FROM "CLIMB HEADING..." TO "CLIMB ON HEADING..." - 8260.46G APPENDIX D.2.
5. CHANGED FLYING CLOUD AND ANOKA COUNTY-BLAINE (JANES FIELD) DP ROUTE DESCRIPTION FROM "FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, THENCE..." TO "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, MAINTAIN ATC ASSIGNED ALTITUDE, THENCE... - 8260.46G 2-1-1(G).
6. REMOVED "(TEN)" FROM TRANSITION INSTRUCTIONS IN DP ROUTE DESCRIPTION - ONLY USES NUMBER 10 PER EXAMPLES IN 8260.46G APPENDIX E.
7. ADDED AIRPORT ID TO ALL AIRPORTS IN AIRPORTS SERVED - 8260.46G APPENDIX D.
8. ADDED "NOTE: ATC CLIMB GRADIENT: RWY 12L: 540 FT PER NM TO 3500, RWY 12R: 542 FT PER NM TO 3500, RWY 17: 512 FT PER NM TO 3500. IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI" TO PROCEDURAL NOTES - ATC REQUEST; DOES AWAY WITH THE MSP CROSSING RESTRICTIONS AT 7 DME THAT WERE PREVIOUSLY PUBLISHED.
9. ADDED "WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS", AND "APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM" TO REMARKS - 8260.46G.
10. ADDED "REFERENCE MAG VAR: KMSP 0E EPOCH YR: 2015" TO ADDITIONAL FLIGHT DATA - 8260.46G APPENDIX D.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
SCHEP	ONE	SCHEP1.SCHEP	NINE	08/17/2017	8 SEP 2022

10/13/21: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/23/21.

1. CHANGED "NOTE: ATC CLIMB GRADIENT: RWY 12L: 540 FT PER NM TO 3500, RWY 12R: 542 FT PER NM TO 3500, RWY 17: 512 FT PER NM TO 3500. IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI" TO "NOTE: ATC CLIMB GRADIENT: RWY 12L: 540 FT PER NM TO 3500, RWY 12R: 542 FT PER NM TO 3500, RWY 17: 512 FT PER NM TO 3500, RWY 30L: 380 FT PER NM TO 3500, RWY 30R: 380 FT PER NM TO 3500. IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI".

03/01/22: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/23/21.

1. TRANSCRIBED TO FORM 8260-15B DATED 06/21.
2. CHANGED DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN FROM "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MSP R-232 TO SCHEP INT/MSP 66.00 DME, MAINTAIN ATC ASSIGNED ALTITUDE, THENCE..." TO "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO INTERCEPT MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW PRB RESULTS AND NOTAM VERBIAGE.
3. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "ALL AIRCRAFT: ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS: IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES ADVISE ATC PRIOR TO TAXI" -- UPDATED IAW PRB RESULTS.
4. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "RWY 12L/R: FOR ASSIGNED HEADINGS FROM 060 CW TO 100, CROSS MSP 7 DME ARC AT OR ABOVE 3500, RWY 12L: 540 FT PER NM TO 3500, 12R: 542 FT PER NM TO 3500 -- UPDATED IAW PRB RESULTS.
5. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "RWY 17: FOR ASSIGNED HEADINGS FROM 230 CW TO 285, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 512 FT PER NM TO 3500 -- UPDATED IAW PRB RESULTS.
6. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "RWY 30L/R: FOR ASSIGNED HEADINGS FROM 220 CW TO 360, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 380 FT PER NM TO 3500 -- UPDATED IAW PRB RESULTS.
7. DELETED ATC CLIMB GRADIENTS PROCEDURAL DATA NOTE -- UPDATED IAW PRB RESULTS.
8. MOVED "RADAR REQUIRED" FROM PROCEDURAL DATA NOTES TO EQUIPEMENT REQUIREMENT NOTES -- UPDATED IAW 8260.46H, APPX D, SEC 2.6.
9. DELETED "REFERENCE MAG VAR: KMSP 0E EPOCH YR: 2015" IN ADDITIONAL FLIGHT DATA -- NO LONGER REQUIRED PER 8260.46H.
10. DELETED AIRPORT NAMES FROM AIRPORTS SERVED -- UPDATED IAW 8260.46H, APPX D, SEC 2.13.
11. ADDED "CHART:" AND DELETED "DEPARTURE CONTROL SOUTH OR EAST, DEPARTURE CONTROL NORTH OR WEST" IN COMMUNICATIONS -- UPDATED IAW 8260.46H, APPX D, SEC 2.14.
12. CHANGED FLYING CLOUD AIRPORT IDENTIFIER FROM "KFMC" TO "KFCM" -- CORRECTION.

05/06/22: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/23/21.

1. CHANGED DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN FROM "...TO INTERCEPT MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" TO "...TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW AFS COMMENTS.
2. COMBINED FLYING CLOUD AND ANOKA COUNTY-BLAINE AIRPORTS, REORDERED PRIOR TO ST PAUL DOWNTOWN HOLMAN FLD, AND CHANGED DRD FROM "...TO MSP VOR/DME THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, MAINTAIN ATC ASSIGNED ALTITUDE, THENCE..." TO "...TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW AFS COMMENTS.
3. CHANGED ANOKA COUNTY-BLAINE AIRPORT IDENTIFIER FROM "KANA" TO "KANE" -- CORRECT IDENTIFIER.
4. CHANGED ST PAUL DOWNTOWN HOLMAN FLD DRD ALL RUNWAYS FROM "...TO MSP VOR/DME, THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, THENCE..." TO "...TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE..." -- UPDATED IAW AFS COMMENTS.
5. CHANGED THENCE INSTRUCTIONS FROM "...ON TRANSITION OR ASSIGNED ROUTE, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL 10 MINUTES AFTER DEPARTURE" TO "...ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW AFS COMMENTS.
6. CHANGED KMSP TAKEOFF MINIMUMS FROM "RWYS 4, 12R, 17, 22, 30L, 30R: STANDARD. RWY 12: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 207 FT PER NM TO 1100, 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. RWY 35: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100" TO "RWYS 12R, 17, 22: STANDARD. RWY 4: STANDARD WITH MINIMUM CLIMB OF 202 FT PER NM TO 2400. RWY 12L: STANDARD WITH MINIMUM CLIMB OF 277 FT PER NM TO 1100. RWY 30L: STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000. RWY 30R: STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000. RWY 35: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100." -- UPDATED ODP EVALUATIONS.
7. CHANGED KANE RWY 8 CLIMB GRADIENT FROM "371" TO "370" -- UPDATED TO MATCH ODP.
8. ADDED NOTE "CHART: KMSP, KSTP, KANE, KMIC, AND KFCM" -- UPDATED IAW AFS COMMENTS.



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD TERMINAL ARRIVAL (STAR)**

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.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
LANTK	TWO	LANTK.LANTK2	ONE	08/30/2007	8 SEP 2022

**TRANSITION ROUTES:**

*This is a corrected copy of a procedure originally published in NFDD 117. See page 2 for details*

Transition Name	Transition Computer Code	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitude/Fixes
DABOY	DABOY.LANTK2	DABOY	DABOY						
		DABOY	LANTK	224.65 (OVR R-045)	37.73	10000			
DES MOINES	DSM.LANTK2	DSM VORTAC	DSM VORTAC						
		DSM VORTAC	LANTK	267.33 (DSM R-267)	67.07	10000			

**ARRIVAL ROUTE DESCRIPTION:**

FROM OVER LANTK FLY HEADING 250.00 AND EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

**PROCEDURAL DATA NOTES:**

NOTE: DME REQUIRED FOR DABOY TRANSITION.  
NOTE: RADAR REQUIRED

**FIXES AND/OR HOLDING PATTERNS:**

CHART: OVR VORTAC

**COMMUNICATIONS:**

CHART: OMAHA APP CON.

**AIRPORTS SERVED:**

AIRPORT NAME	CITY	STATE
EPPLEY AIRFIELD (KOMA)	OMAHA	NE
OFFUTT AFB (KOFF)	OMAHA	NE





**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD TERMINAL ARRIVAL (STAR)**

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
LANTK	TWO	LANTK.LANTK2	ONE	08/30/2007	8 SEP 2022

**LOST COMMUNICATIONS PREFERENCES:**

**REMARKS:**

ABBREV AMDT DOES NOT MEET PERIODIC REVIEW REQUIREMENTS.

**ADDITIONAL FLIGHT DATA:**

CHART: CRYPT CENTRAL MOA, CRYPT SOUTH MOA.

**FLIGHT INSPECTED BY:**

**ORGANIZATION:**

**DATE:**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION VALIDATION.

Flight Inspected Signature:

*Digitally signed by*

**ERIC N SUSKI**

Jul 08, 2022

**DEVELOPED BY:**

DONALD LANIER (ANDRE TUCKER)

AJV-A431

03/16/2022

Developed By Signature:

*Digitally signed by*

**ERIC N SUSKI**

Jul 08, 2022

**APPROVED BY:**

LONNIE EVERHART

AJV-A430

Approved By Signature:

*Digitally signed by*

**ERIC N SUSKI**

Jul 08, 2022

**CHANGES:**

1. REMOVED FOD TRANSITION; REMOVED FOD VORTAC FROM CHART.
2. DSM MAG COURSE CHANGED FROM 267.36 TO 267.33.
3. PROCEDURAL DATA NOTES: REMOVED VERTICAL NAVIGATION PLANNING INFORMATION NOTE.
4. REMOVED ALL INSTANCES OF INT FROM FORM.

**REASONS:**

1. FOD VORTAC DECOM.
2. UPDATED NAVAID SURVEY.
3. IAW 8260.19I, 4-5-2.E NOTE.
4. IAW 8260.19I, 4-5-12.

07/08/2022: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/29/2022.

1. TRANSITION ROUTES: CHANGED TRANSITION NAME FROM DSM VORTAC TO DES MOINES.
2. ADDITIONAL FLIGHT DATA: DELETED CHART DSM VORTAC R-300 AT DABOY, OVR VORTAC R-045 AT LANTK AND DABOY; CHART HEADING 250.00 FROM LANTK; CHART: DME FROM OVR VORTAC AT LANTK, DABOY.



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD TERMINAL ARRIVAL (STAR)**

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.

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<u>Arrival Name</u>	<u>Number</u>	<u>STAR Computer Code</u>	<u>Superseded Number</u>	<u>Dated</u>	<u>Effective Date</u>
LANTK	TWO	LANTK.LANTK2	ONE	08/30/2007	8 SEP 2022

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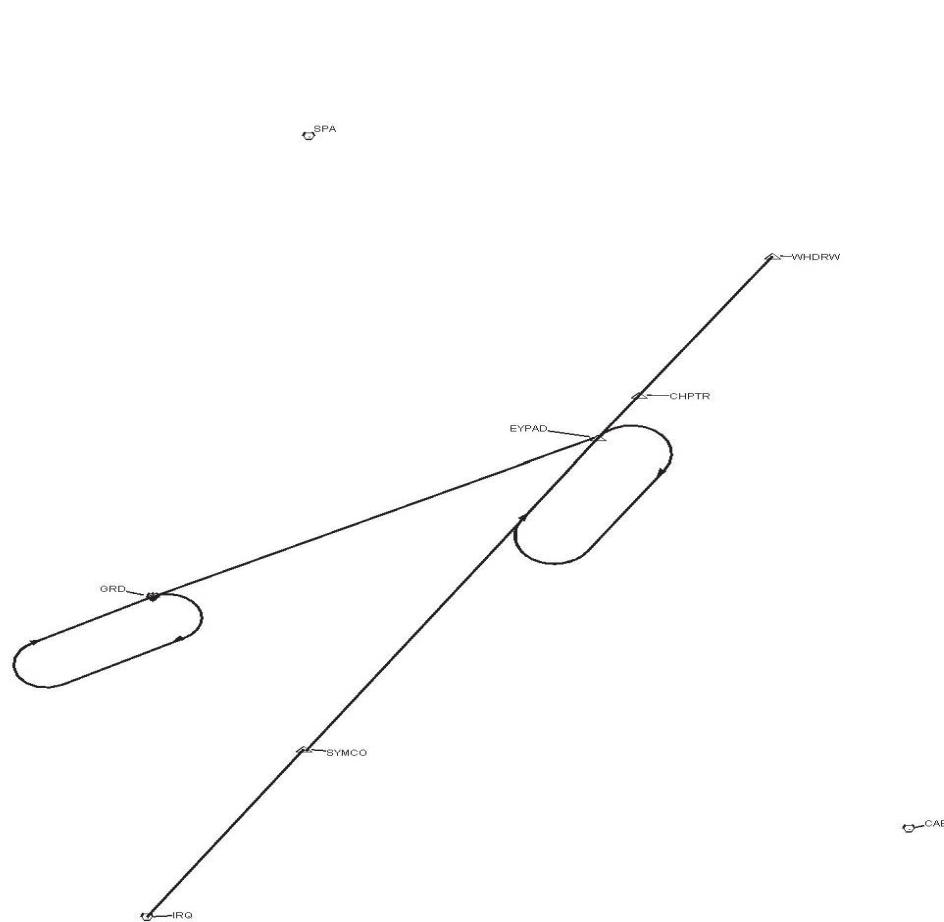
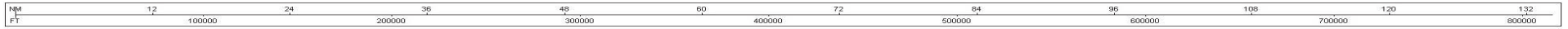


**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD TERMINAL ARRIVAL (STAR)**

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.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
LANTK	TWO	LANTK.LANTK2	ONE	08/30/2007	8 SEP 2022

Title:



**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>ACTUAL EFFECTIVE DATE</u>
WALLA WALLA	TWO		ONE	09/19/91	08 SEP 2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**RWY 2, 20:** CLIMB ON ASSIGNED TURN AND HEADING FOR VECTOR TO ASSIGNED ROUTE.

**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:**

NOTE: ATC MAY ASSIGN TURNS AND MAGNETIC HEADING OF 202.19 CLOCKWISE THROUGH 022.17 IN THE INITIAL CLEARANCE.

**PBN REQUIREMENTS NOTES:**

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**TAKEOFF MINIMUMS:**

**RWY 20:** STANDARD.

**RWY 2:** 300-1 5/8 WITH MINIMUM CLIMB OF 236 FT PER NM TO 2300 OR STANDARD WITH MINIMUM CLIMB OF 374 FT PER NM CLIMB GRADIENT TO 1600.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

**RWY 2:** 1800 FT MSL POLE 460836.00N/1181330.00W (236 CG), 1405 FT MSL VERTICAL STRUCTURE 460632.70N/1181528.70W (374 CG), 2280 FT MSL VERTICAL STRUCTURE 460956.00N/1180915.00W (CGTA), 1449 FT MSL VERTICAL STRUCTURE 460650.00N/1181507.00W (CEILING/VISIBILITY).

**MSA:**

**LOST COMMUNICATIONS PROCEDURES:**

IF NOT IN CONTACT WITH DEPARTURE CONTROL AFTER REACHING 2500 CONTINUE CLIMB TO ASSIGNED ALTITUDE AND PROCEED DIRECT TO ALW VOR/DME, THENCE ON ASSIGNED ROUTE.

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: ASSIGNED BY ATC.

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KALW	WALLA WALLA	WA



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
WALLA WALLA	TWO		ONE	09/19/91	

**COMMUNICATIONS:**

ALW GND CON, ALW TOWER, TRI CITIES APP CON.

**FIXES AND/OR NAVAIDS:**

ALW VOR/DME, GEG VORTAC, MQG VOR/DME, MWH VOR/DME, PDT VORTAC, PSC VOR/DME, PUW VOR/DME, YKM VORTAC.

**REMARKS:**

ABBREVIATED AMENDMENT

**FLIGHT INSPECTED BY**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021  
 SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION.

*Digitally signed by*  
**MARK D ADAMS**  
 Jul 12, 2022

**OFFICE**                      **DATE**

**DEVELOPED BY** *Digitally signed by*

ANA VEGA                      **ANA Y VEGA**  
 Apr 29, 2022

**OFFICE**                      **DATE**  
 AJV-A411                      02/16/2022

**APPROVED BY**

JULIE MORGAN

**OFFICE**                      **DATE**                      **TITLE**  
 AJV-A430                                                                MANAGER

*Digitally signed by*  
**JULIE A MORGAN**  
 Jul 12, 2022

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

**A4A**     **ALPA**     **AOPA**     **APA**     **HAI**     **NBAA**     **OTHER:** ZDC, ALW APP CON, AMGR

**CHANGES - REASONS:**

1. DP ROUTE DESCRIPTION: CHANGED "VIA" TO "ON" - "VIA" NO LONGER USED.
2. PROCEDURAL DATA NOTES: UPDATED HEADINGS FROM "195 CLOCKWISE THROUGH 020" TO "202.19 CLOCKWISE THROUGH 022.17" - MAGVAR CHANGED FROM E20 EPOCH YEAR 1980 TO E14 EPOCH YEAR 2025.
3. TAKEOFF OBSTACLE NOTES: ADDED NOTE "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)." - IAW 8260.46H APPENDIX E, SEC 1 PARA 9.6.
4. ADDITIONAL FLIGHT DATA: ADDED "CHART NOTE: TOP ALTITUDE: ASSIGNED BY ATC" - IAW 8260.46H APPENDIX E SEC 1, PARA 12, B AND PER FPT.
5. EQUIPMENT REQUIREMENT NOTES: ADDED "RADAR REQUIRED" - IAW 8260.46H SECTION 2 PARA 6.
6. LOST COMMUNICATIONS PROCEDURES: CHANGED "VIA" TO "ON" - "VIA" NO LONGER USED.
7. REMARKS: ADDED "ABBREVIATED AMENDMENT" - IAW 8260.46H PARA 2-1-6.B(4)
8. TAKEOFF MINIMUMS: ADDED "300-1 5/8 WITH MINIMUM CLIMB OF 236 FT PER NM TO 2300 OR STANDARD WITH MINIMUM CLIMB OF 374 FT PER NM CLIMB GRADIENT TO 1600" - IAW 8260.19I 8-2-1 C.
9. ADDED CONTROLLING OBSTACLES - IAW 8260.46H

