

Flight Procedure Tracking Form		Action: FLIGHT CHECK	Task Type: SID	Date Open: 02/02/2012	Task #: 2010120925283503004	Request #: 20101209252835
Procedure: SID FORT LAUDERDALE THREE FORT LAUDERDALE FL KFLL			Airport ID: KFLL	Airport: FORT LAUDERDALE/HOLLYWOOD INTL		Reimbursable #:
City: FORT LAUDERDALE		ST: FL	GPS #:		Estimated Chart Date: 05/02/2013	FICO #:
Fac ID:	Fac. Type: Proc 0		Specialist: SEAN BARBEE			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	10/24/2012	02/05/2013	ADOLFO URRUTIA	MAG VAR
QA:	01/30/2013			
Liaison:			S Purlin	

Procedure Comments:	ENROUTE	Remark Type: INFORMATION	PKS 408
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FORT LAUDERDALE, FL FORT LAUDERDALE/HOLLYWOOD INTL (KFLL) FORT LAUDERDALE THREE (RNAV) (SID) ENROUTE-YES FC: 3.5.13 PUB: 5.2.13
 ATTACHED FORMS: 8260-15B; 8260-2(S): ARKES-INT, REV 7; BEECH-INT, REV 3; MNATE-INT, REV 6; THNDR-INT, REV 5; TURBO-INT, REV 4; ZAPPA-INT, REV 3.
 CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

PROTOTYPE: NOT FOR NAVIGATION

(FLL3.FLL) FIG

SL-744 (FAA)

FORT LAUDERDALE/HOLLYWOOD INTL (FLL)

FORT LAUDERDALE THREE DEPARTURE

FORT LAUDERDALE, FLORIDA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 10L: CLIMB HEADING 096.37 TO 500 BEFORE TURNING LEFT, CLIMB ON ASSIGNED HEADING, THENCE...

TAKEOFF RUNWAY 28R: CLIMB HEADING 276.37 TO 500 BEFORE TURNING LEFT, CLIMB ON ASSIGNED HEADING, THENCE...

. . . . Maintain 3000 or assigned lower altitude and expect radar vectors to appropriate transition. Expect further clearance to filed altitude ten (10) minutes after departure.

ARKES TRANSITION (FLL3.ARKES): Intercept VKZ VOR/DME R-348 to ARKES INT. Then as filed.

BEECH TRANSITION (FLL3.BEECH): From FLL VOR/DME on R-104 to BEECH INT. Then as filed.

MNATE TRANSITION (FLL3.MNATE): From over DHP VORTAC on R-195 to MNATE DME fix.

Then as filed.

PREDA TRANSITION (FLL3.PREDA): From over DHP VORTAC on R-057 to PREDA INT. Then as filed.

If filed on BR70V, expect radar vectors to filed route after PREDA. If radio contact is not established by PREDA, turn right heading 120° and join filed route.

THNDR TRANSITION (FLL3.THNDR): From over DHP VORTAC on R-335 to THNDR INT. Then as filed.

ZAPPA TRANSITION (FLL3.ZAPPA): Intercept DHP VORTAC R-057 to ZAPPA INT. Then as filed.

TAKEOFF OBSTACLE NOTES

RWY 10L: Approach light 296' from DER, on centerline, 11' AGL/15' MSL. Building 469' from DER, 378' left of centerline, 13' AGL/18' MSL. Lights beginning 496' from DER, from 28' left to 27' right of centerline, up to 16' AGL/20' MSL. Train on railroad beginning 510' from DER, from 632' left to on centerline, 23' AGL/30' MSL. Light poles beginning 666' from DER, on centerline, up to 32' AGL/36' MSL. Poles and trees beginning 1290' from DER, from 548' left to 633' right of centerline, up to 49' AGL/53' MSL. Trees and pole beginning 1975' from DER, 827' left to 271' right of centerline, up to 79' AGL/83' MSL. Bridge 2439' from DER 1123' left of centerline, 65' AGL/70' MSL.

RWY 28R: Building and light pole beginning 260' from DER, 253' left of centerline and on centerline, up to 14' AGL/18' MSL. Vehicles on road beginning 323' from DER, from 28' left to 281' right of centerline, 15' AGL/21' MSL. Approach lights beginning 441' from DER, from 28 ft left to 27' right of centerline, up to 16' AGL/25' MSL. Vehicles on road beginning 455' from DER, from 683' left to 685' right of centerline, up to 17' AGL/34' MSL. Approach lights beginning 652' from DER, on centerline, up to 24' AGL/33' MSL. Train on railroad beginning 849' from DER, from 683' left to 379' right of centerline, up to 23' AGL/34' MSL. Trees and sign beginning 1017' from DER, 122' left of centerline, up to 63' AGL/72' MSL. Trees beginning 2231' from DER, 354' left of centerline, up to 88' AGL/97' MSL. Trees beginning 3347' from DER, 530' right of centerline, up to 108' AGL/112' MSL.

FORT LAUDERDALE THREE DEPARTURE

(FLL3.FLL) FIG

FORT LAUDERDALE, FLORIDA

FORT LAUDERDALE/HOLLYWOOD INTL (FLL)

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

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
FORT LAUDERDALE	THREE	FLL3.FLL	TWO	11/18/2010	

TYPE: SID

DP ROUTE DESCRIPTION:

KFLL:

TAKEOFF RWY 10L: CLIMB HEADING 096.37 TO 500 BEFORE TURNING LEFT, CLIMB ON ASSIGNED HEADING, THENCE...
TAKEOFF RWY 28R: CLIMB HEADING 276.37 TO 500 BEFORE TURNING LEFT, CLIMB ON ASSIGNED HEADING, THENCE...

...MAINTAIN 3000 OR ASSIGNED LOWER ALTITUDE AND EXPECT RADAR VECTORS TO APPROPRIATE TRANSITION. EXPECT FURTHER CLEARANCE TO FILED ALTITUDE TEN (10) MINUTES AFTER DEPARTURE.

KFXE:

TAKEOFF RWY 8, 13, 26, 31: CLIMB ON ASSIGNED HEADING. THENCE...
TAKEOFF RWY 26: CLIMB HEADING 266.79 TO 600 BEFORE TURNING LEFT. CLIMB ON ASSIGNED HEADING, THENCE...

...MAINTAIN 2000 OR ASSIGNED HIGHER ALTITUDE AND EXPECT RADAR VECTORS TO APPROPRIATE TRANSITION. EXPECT FURTHER CLEARANCE TO FILED ALTITUDE TEN (10) MINUTES AFTER DEPARTURE.

KPMP:

TAKEOFF RWY 6, 10, 24, 28, 33: CLIMB ON ASSIGNED HEADING. THENCE...
TAKEOFF RWY 15: CLIMB HEADING 145.66 TO 500, THEN CLIMB ON ASSIGNED HEADING, THENCE...

...MAINTAIN 2000 OR HIGHER ASSIGNED ALTITUDE AND EXPECT RADAR VECTORS TO APPROPRIATE TRANSITION. EXPECT FURTHER CLEARANCE TO FILED ALTITUDE TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTE DESCRIPTION:



**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
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DP Name FORT LAUDERDALE	Number THREE	DP Computer Code FLL3.FLL	Superseded Number TWO	Dated 11/18/2010	Effective Date
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TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
THNDR	FLL3.THNDR	DHP VORTAC	THNDR INT	334.68 (DHP R-335)	56.83	3000	1400	
ARKES	FLL3.ARKES	VKZ VOR/DME	ARKES INT	348.00 (VKZ R-348)	51.37	2100		
ZAPPA	FLL3.ZAPPA	DHP VORTAC	PREDA INT	057.39 (DHP R-057)	56.22	6000	2100	
		PREDA INT	ZAPPA INT	057.39 (DHP R-057)	27.59	10000	2000	
PREDA	FLL3.PREDA	DHP VORTAC	PREDA INT	057.39 (DHP R-057)	56.22	6000	2100	
BEECH	FLL3.BEECH	FLL VOR/DME	BEECH INT	103.79 (FLL R-104)	42.69	11000	2000	
MNATE	FLL3.MNATE	DHP VORTAC	MNATE/ DHP 50.00 DME	195.00 (DHP R-195)	50.00	3000		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME AND RADAR REQUIRED.

NOTE: IF FILED ON BR70V, EXPECT RADAR VECTORS TO FILED ROUTE AFTER PREDA. IF RADIO CONTACT IS NOT ESTABLISHED BY PREDA, TURN RIGHT HEADING 120 AND JOIN FILED ROUTE.

TAKEOFF MINIMUMS:

KFLL - RWY 10L, 28R, STANDARD. RWY 10R, 28L, NA - ATC.

KFXE - RWY 8, 13, 26, 31, STANDARD.

KPMP - RWY 6, 24, 28, 33, STANDARD. RWY 10, 300-1 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 261 FT PER NM TO 300. RWY 15, 400-2 OR STANDARD WITH A MINIMUM CLIMB OF 441 FT PER NM TO 500.

U.S. DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FORT LAUDERDALE	THREE	FLL3.FLL	TWO	11/18/2010	

TAKEOFF OBSTACLES NOTES:

KFLL:

NOTE: RWY 10L, APPROACH LIGHT 296 FT FROM DER, ON CENTERLINE, 11 FT AGL/15 FT MSL. BUILDING 469 FT FROM DER, 378 FT LEFT OF CENTERLINE, 13 FT AGL/18 FT MSL. LIGHTS BEGINNING 496 FT FROM DER, FROM 28 FT LEFT TO 27 FT RIGHT OF CENTERLINE, UP TO 16 FT AGL/20 FT MSL. TRAIN ON RAILROAD BEGINNING 510 FT FROM DER, FROM 632 FT LEFT TO ON CENTERLINE, 23 FT AGL/30 FT MSL. LIGHT POLES BEGINNING 666 FT FROM DER, ON CENTERLINE, UP TO 32 FT AGL/36 FT MSL. POLES AND TREES BEGINNING 1290 FT FROM DER, FROM 548 FT LEFT TO 633 FT RIGHT OF CENTERLINE, UP TO 49 FT AGL/53 FT MSL. TREES AND POLE BEGINNING 1975 FT FROM DER, FROM 827 FT LEFT TO 271 FT RIGHT OF CENTERLINE, UP TO 79 FT AGL/83 FT MSL. BRIDGE 2429 FT FROM DER, 1123 FT LEFT OF CENTERLINE, 65 FT AGL/70 FT MSL.
NOTE: RWY 28R, BUILDING AND LIGHT POLE BEGINNING 260 FT FROM DER, 253 FT LEFT OF CENTERLINE AND ON CENTERLINE, UP TO 14 FT AGL/18 FT MSL. VEHICLES ON ROAD BEGINNING 323 FT FROM DER, FROM 28 FT LEFT TO 281 FT RIGHT OF CENTERLINE, 15 FT AGL/21 FT MSL. APPROACH LIGHTS BEGINNING 441 FT FROM DER, FROM 28 FT LEFT TO 27 FT RIGHT OF CENTERLINE, UP TO 16 FT AGL/25 FT MSL. VEHICLES ON ROAD BEGINNING 455 FT FROM DER, FROM 683 FT LEFT TO 685 FT RIGHT OF CENTERLINE, UP TO 17 FT AGL/34 FT MSL. APPROACH LIGHTS BEGINNING 652 FT FROM DER, ON CENTERLINE, UP TO 24 FT AGL/33 FT MSL. TRAIN ON RAILROAD BEGINNING 849 FT FROM DER, FROM 683 FT LEFT TO 379 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/34 FT MSL. TREES AND SIGN BEGINNING 1017 FT FROM DER, 122 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/72 FT MSL. TREES BEGINNING 2231 FT FROM DER, 354 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/97 FT MSL. TREES BEGINNING 3347 FT FROM DER, 530 FT RIGHT OF CENTERLINE, UP TO 108 FT AGL/112 FT MSL.

KFXE:

NOTE: RWY 8, BUILDING 833 FROM DER, 720 FT LEFT OF CENTERLINE, 40 FT AGL/51 FT MSL. TREE 1903 FT FROM DER, 483 FT RIGHT OF CENTERLINE, 85 FT AGL/89 FT MSL. BUILDING 4129 FT FROM DER, 40 FT RIGHT OF CENTERLINE, 122 FT AGL/129 FT MSL. BUILDING 4720 FT FROM DER, 78 FT RIGHT OF CENTERLINE, 150 FT AGL/159 FT MSL.
NOTE: RWY 13, BUILDINGS BEGINNING 2 FT FROM DER, 465 FT LEFT AND 303 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/42 FT MSL. TREES, POLES, AND BUILDINGS BEGINNING 451 FT FROM DER, FROM 290 FT LEFT AND 167 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/54 FT MSL. TREES BEGINNING 1975 FT FROM DER, 257 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/101 FT MSL. TOWER 5130 FT FROM DER, 1825 FT RIGHT OF CENTERLINE, 139 FT AGL/147 FT MSL.
NOTE: RWY 26, TREES BEGINNING 2040 FT FROM DER, 255 FT LEFT OF CENTERLINE, UP TO 107 FT AGL/116 FT MSL.
NOTE: RWY 31, TREES AND POLE BEGINNING 703 FT FROM DER, 262 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/81 FT MSL. BUILDING 1288 FROM DER, 289 FT LEFT OF CENTERLINE, 43 FT AGL/53 FT MSL.

KPMP:

NOTE: RWY 6, TREES BEGINNING 101 FT FROM DER, 26 FT LEFT AND 232 FT RIGHT OF CENTERLINE, UP TO 70 FT AGL/84 FT MSL.
NOTE: RWY 10, POLE 154 FT FROM DER, 131 FT LEFT OF CENTERLINE, 9 FT AGL/18 FT MSL. TREES, POLE, AND BUILDING BEGINNING 427 FT FROM DER, 12 FT LEFT AND 343 FT RIGHT OF CENTERLINE, UP TO 49 FT AGL/63 FT MSL. POLES AND BUILDING BEGINNING 1264 FT FROM DER, 166 FT LEFT AND 286 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/72 FT MSL. BUILDING 5670 FT FROM DER, 604 FT RIGHT OF CENTERLINE, 186 FT AGL/190 FT MSL. BUILDINGS 1.0 NM FROM DER, 887 FT LEFT OF CENTERLINE, UP TO 201 FT AGL/210 FT MSL.
NOTE: RWY 15, BUILDING, TREES, AND POLES BEGINNING 502 FT FROM DER, 306 FT LEFT AND 434 FT RIGHT OF CENTERLINE, 44 FT AGL/54 FT MSL. TREES BEGINNING 1229 FT FROM DER, 152 FT LEFT AND 190 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/62 FT MSL. BUILDING 5994 FT FROM DER, 1491 FT LEFT OF CENTERLINE, 213 FT AGL/221 FT MSL. BUILDING 1.1 NM FROM DER, 1259 FT LEFT OF CENTERLINE, 300 FT AGL/310 FT MSL. BUILDING 1.7 NM FROM DER, 1385 FT RIGHT OF CENTERLINE, 255 FT AGL/265 FT MSL.
NOTE: RWY 24, TREES BEGINNING 190 FT FROM DER, 304 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/49 FT MSL. TREES BEGINNING 423 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/66 FT MSL. TANKS, BUILDING, TREE, AND POLE BEGINNING 630 FT FROM DER, 23 FT RIGHT OF CENTERLINE, 60 FT AGL/80 FT MSL. TREES BEGINNING 2179 FT FROM DER, 253 FT LEFT OF CENTERLINE, UP TO 91 FT AGL/110 FT MSL.
NOTE: RWY 28, TREES BEGINNING 358 FT FROM DER, 255 FT LEFT OF CENTERLINE UP TO 25 FT AGL/44 FT MSL. POLES, BUILDING, TREES, AND TANK BEGINNING 722 FT FROM DER, 33 FT LEFT AND 238 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/ 64 FT MSL.
NOTE: RWY 33, TREES AND BUILDING BEGINNING 135 FT FROM DER, 378 FT LEFT OF CENTERLINE AND 458 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/56 FT MSL. TREES BEGINNING 799 FT FROM DER, 157 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/78 FT MSL.

CONTROLLING OBSTACLES:

KFLL - RWY 10L: 365 FT MSL STACK 260508.97N/0800730.02W. RWY 28R: 1049 FT MSL TOWER 255935.28N/0801026.00W.

KFXE - RWY 26: 409 MSL TOWER 261047.00N/0801315.00W.

KPMP - RWY 10: 210 FT MSL BUILDING 261441.53N/0800513.98W. RWY 15: 310 FT MSL BUILDING 261351.00N/0800526.00W, 265 MSL BUILDING 261309.00N/0800527.00W.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FORT LAUDERDALE	THREE	FLL3.FLL	TWO	11/18/2010	

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: V3, DHP - MNATE; V157-511-599, DHP - THNDR; V159, VKZ - ARKES; AR10, DHP - ZAPPA.

AIRPORTS SERVED:

FORT LAUDERDALE/HOLLYWOOD INTL, FORT LAUDERDALE, FL
POMPANO BEACH AIRPARK, POMPANO BEACH, FL

FORT LAUDERDALE EXECUTIVE, FORT LAUDERDALE, FL

COMMUNICATIONS:

KFLL: ATIS, GND CON, TOWER. KFXE: ATIS, GND CON, TOWER. KPMP: ATIS, GND CON, CTAF.

FIXES AND/OR NAVAIDS:

PBI VORTAC, RSW VORTAC, ZBV VORTAC, TURBO INT.

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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
FORT LAUDERDALE	THREE	FLL3.FLL	TWO	11/18/2010	

REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

CONCURRENT

DEVELOPED BY:

SEAN BARBEE

AJV-352

12/12/2012

APPROVED BY:

SUE CRUMB

AJV-352

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ZMA, MIA APP CON, FLL ATCT, FLL APT MGR, FXE ATCT, FXE APT MGR, PMP ATCT, PMP APT MGR

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

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FORT LAUDERDALE	THREE	FLL3.FLL	TWO	11/18/2010	

CHANGES:

1. KFLL RUNWAYS RE-NUMBERED FROM 9L/27R AND 9R/27L TO 10L/28R AND 10R/28L.
2. TRANSITION ROUTE FOR THE BEECH INT TRANSITION FROM FLL VOR/DME TO BEECH INT CHANGED FROM 097.84/42.51 TO 103.79/42.69; TRANSITION ROUTE DESCRIPTION FOR THE BEECH TRANSITION CHANGED FROM ON FLL VOR/DME R-098 TO ON R-104.
3. DELETED KFLL RWY 10R AND 28L FROM DP ROUTE DESCRIPTION; CHANGED TAKEOFF MINIMUMS FOR 10R AND 28L FROM "STANDARD" TO "NA - ATC"; DELETED RWY 10R AND 28L TAKEOFF OBSTACLE NOTES; DELETED 28L CONTROLLING OBSTACLE.
4. DELETED ALL REFERENCE TO KFLL RWY 13/31.
5. CHANGED KPMP RWY 28 TAKEOFF MINIMUMS FROM 300-1 TO STANDARD.
6. DELETED KPMP RWY 15 CONTROLLING OBSTACLE: 282 MSL ANTENNA ON BUILDING 261349.89N/0800526.83W.
7. UPDATED ALL TAKEOFF OBSTACLE NOTES.
8. CHANGED KPMP RWY 15 TAKEOFF MINIMUMS CLIMB GRADIENT FROM 424 FT PER NM TO 441 FT PER NM.
9. CHANGED DP ROUTE DESCRIPTION FOR KPMP RWY 10 FROM CLIMB ON ASSIGNED HEADING TO 500 BEFORE TURNING TO CLIMB HEADING 145.66 TO 500, THEN CLIMB ON ASSIGNED HEADING..
10. CHANGED DP ROUTE DESCRIPTION FOR KFLL RWY 10L, 28R FROM "CLIMB ON ASSIGNED HEADING. IF ASSIGNED LEFT TURN, CLIMB TO (ALT) BEFORE TURNING LEFT" TO "CLIMB HEADING (HDG) TO (ALT) BEFORE TURNING LEFT, CLIMB ON ASSIGNED HEADING".
11. CHANGED DP ROUTE DESCRIPTION FOR KFXXE RWY 26 FROM "CLIMB ON ASSIGNED HEADING. IF ASSIGNED LEFT TURN, CLIMB TO 600 BEFORE TURNING LEFT" TO "CLIMB HEADING 266.79 TO 600 BEFORE TURNING LEFT, CLIMB ON ASSIGNED HEADING".
12. DELETED ALL DATA FROM TRANSITION ROUTE DESCRIPTIONS BLOCK.
13. ADDED NOTE TO PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS: "IF FILED ON BR70V, EXPECT RADAR VECTORS TO FILED ROUTE AFTER PREDA. IF RADIO CONTACT IS NOT ESTABLISHED BY PREDA, TURN RIGHT HEADING 120 AND JOIN FILED ROUTE".

REASONS:

1. FORT LAUDERDALE/HOLLYWOOD INTL (KFLL) MAGVAR UPDATED FROM 3W/1985 TO 6W/2015.
2. FORT LAUDERDALE (FLL) VOR/DME MOVED AND ROTATED FROM 0E/1965 TO 6W/2015.
3. RUNWAY UNDER CONSTRUCTION AND WILL OPEN AS RWY 10R/28L IN 2014. DEPARTURE PROCEDURES FOR THIS RUNWAY WILL BE COMPLETED AT THAT TIME.
4. RWY 13/31 CLOSED.
- 5-7. NEW OBSTACLE SURVEY DATA.
8. RWY 15 CONTROLLING OBSTACLE, 310 MSL BUILDING (12-001097), 5D ACCURACY CODE DOES NOT MEET 2C REQUIREMENT FOR DEPARTURE 40:1 EVALUATION; 441 FT PER NM CLIMB GRADIENT ENSURES OBSTACLE AVOIDANCE.
- 9-11. CHANGED TO MATCH 8260-15A DATA.
12. NOT REQUIRED. DATA IS DEFINED IN TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) BLOCK.
13. INFORMATION MOVED FROM TRANSITION ROUTE DESCRIPTIONS BLOCK TO PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS BLOCK

THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/12/2012.

1. CHANGED TRANSITION ROUTE COMPUTER CODE FOR MNATE TRANSITION FROM "FLL.MNATE" TO "FLL3.MNATE".

CONCURRENT WITH TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 5

RADIO FIX AND HOLDING DATA RECORD

NAME: ARKES

STATE: FL

COUNTRY: US

LATITUDE/LONGITUDE: 263437.73N/0802503.60W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	VIRGINIA KEY	VKZ	VOR/DME	H	348.00	344.00	51.37	51.37		2100	45000
2	PALM BEACH	PBI	VORTAC	H	254.00	251.00		18.84		2100	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VKZ	VOR/DME	R-348	52	2000	15000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

VIRGINIA KEY (FAC 1) AND PALM BEACH (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ARKES (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1, 2		KFLL	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1, 2		KFXE	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1, 2		KPMP	POMPANO BEACH	FL (US)
EN ROUTE	J113	1, 2				(US)
EN ROUTE	V159	1, 2				(US)
IAP	RNAV (GPS)-A			KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: DP, IAP, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

UPDATED FIX USE.
 INCREASED FAC 1 AND FAC 2 MRA ALTITUDES FROM 2000 FT TO 2100 FT.
 ADDED REMARK FOR FAC 1 AND FAC 2 USED TO ESTABLISH FIX COORDINATES.
 UPDATED SIGNATURES.
 UPDATED DISTRIBUTION.

DEVELOPED BY: **DATE:** 01/18/2013 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DUSTIN DAVIDSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZMA
 ATC FACILITY: PBI APP CON
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: BEECH

STATE:

COUNTRY: BF

LATITUDE/LONGITUDE: 255830.37N/0792303.15W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	FORT LAUDERDALE	FLL	VOR/DME	H	103.79	097.79	42.69	42.69		11000	45000
2	BIMINI	ZBV	VORTAC	H	347.33	343.33	16.92	16.92		4000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BIMINI (FAC 2) AND FORT LAUDERDALE (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BEECH (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1, 2		KFLL	FORT LAUDERDALE	FL (US)
DP	FORT LAUDERDALE	1, 2		KFXE	FORT LAUDERDALE	FL (US)
DP	MIAMI	1, 2		KMIA	MIAMI	FL (US)
DP	POTTR	1, 2		KMIA	MIAMI	FL (US)
DP	FORT LAUDERDALE	1, 2		KPMP	POMPANO BEACH	FL (US)
EN ROUTE	BR55V	1, 2				(BF)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

UPDATED RADIAL/DME OF FAC1.

UPDATED REMARKS TO SHOW WHICH FACILITIES MAKE UP FACILITY COORDINATES.

DEVELOPED BY: **DATE:** 11/29/2012 **OFFICE:** AJV-352 **NAME:** RONALD SALPINO

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZMA
 ATC FACILITY: MIA APP CON
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: MNATE

STATE: FL

COUNTRY: US

LATITUDE/LONGITUDE: 245845.54N/0803126.50W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	DOLPHIN	DHP	VORTAC	H	195.00	191.00	50.00	50.00		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DHP	VORTAC	R-195	50	3000	14600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DEEEP (RNAV)			KMIA	MIAMI	FL (US)
DP	JONZI (RNAV)			KMIA	MIAMI	FL (US)
DP	MIAMI	1		KMIA	MIAMI	FL (US)
DP	MNATE (RNAV)			KMIA	MIAMI	FL (US)
DP	SOUBY	1		KMIA	MIAMI	FL (US)
DP	MIAMI	1		KOPF	MIAMI	FL (US)
DP	MIAMI	1		KTMB	MIAMI	FL (US)
EN ROUTE	G439	1				(US)
EN ROUTE	V3	1				(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

UPDATED FAC FROM HISTORY TO ACTIVE.

DEVELOPED BY:

DATE: 01/14/2013

OFFICE: AJV-352

NAME: RONALD SALPINO

APPROVED BY:

DATE:

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: MIA APP CON
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: THNDR

STATE: FL

COUNTRY: US

LATITUDE/LONGITUDE: 263738.36N/0805159.71W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	DOLPHIN	DHP	VORTAC	H	334.68	330.68	56.83	56.83		3000	45000
2	LEE COUNTY	RSW	VORTAC	L	085.00	083.00	49.25	49.25		3000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DHP	VORTAC	R-335	57	3000	14600
RSW	VORTAC	R-085	50	3000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DOLPHIN (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FT LAUDERDALE	1, 2		KFLL	FORT LAUDERDALE	FL (US)
DP	FT LAUDERDALE	1, 2		KFXE	FORT LAUDERDALE	FL (US)
DP	FT LAUDERDALE	1, 2		KPMP	POMPAHO BEACH	FL (US)
EN ROUTE	J55-85	1, 2				(US)
EN ROUTE	Q110					(US)
EN ROUTE	V157	1, 2				(US)
EN ROUTE	V157-511-599	1				(US)
EN ROUTE	V511	1, 2				(US)
EN ROUTE	V599	1, 2				(US)
IAP	RNAV (GPS) RWY 35			KPHK	PAHOKEE	FL (US)

REQUIRED CHARTING: DP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

UPDATED FAC 1 AND FAC 2 FROM HISTORY TO ACTIVE.
ADDED NOTE: DOLPHIN (FAC 1) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: DATE: 01/18/2013 OFFICE: AJV-352 NAME: SEAN BARBEE

APPROVED BY: DATE: OFFICE: AJV-352 NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZMA
 ATC FACILITY:
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: TURBO

STATE: OA

COUNTRY: US

LATITUDE/LONGITUDE: 261031.14N/0794715.02W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	FORT LAUDERDALE	FLL	VOR/DME	H	079.41	073.41	21.34	21.34		2000	45000
2	PALM BEACH	PBI	VORTAC	H	154.86	151.86		34.22		2000	45000
3	DOLPHIN	DHP	VORTAC	H	057.39	053.39	37.76	37.76		6000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DOLPHIN (FAC 3) AND FORT LAUDERDALE (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FT. LAUDERDALE	1, 2, 3		KFLL	FORT LAUDERDALE	FL (US)
DP	PRED (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
DP	ZAPPA (RNAV)			KFLL	FORT LAUDERDALE	FL (US)
DP	FT. LAUDERDALE	1, 2, 3		KFXE	FORT LAUDERDALE	FL (US)
DP	FT. LAUDERDALE	1, 2, 3		KPMP	POMPAÑO BEACH	FL (US)
EN ROUTE	AR10	2, 3				(US)
EN ROUTE	BR70V	1, 2				(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

UPDATED FLL VOR/DME FOR RE-LOCATION AND MAGVAR ROTATION: FLL MAG BRG/TRUE BRG CHANGED FROM 073.61/073.61 TO 079.41/073.41 AND DISTANCE FROM 20.85 TO 21.34; PBI MAG BRG/TRUE BRG CHANGED FROM 155.41/152.41 TO 154.86/151.86 AND DISTANCE FROM 34.27 TO 34.22; DHP DISTANCE CHANGED FROM 37.43 TO 37.76; FIX MOVED 2000.76 FT NORTHEAST. ADDED NOTE: DOLPHIN (FAC 3) AND FORT LAUDERDALE (FAC 1) USED TO ESTABLISH FIX COORDINATES. UPDATED FIX USE.

DEVELOPED BY: DATE: 12/14/2012 OFFICE: AJV-352 NAME: SEAN BARBEE

APPROVED BY: DATE: OFFICE: AJV-352 NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZMA
 ATC FACILITY: MIA APP CON, FLL ATCT
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: ZAPPA

STATE:

COUNTRY: BF

LATITUDE/LONGITUDE: 263748.01N/0790552.52W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	DOLPHIN	DHP	VORTAC	H	057.39	053.39	83.80	83.80		10000	45000
2	FREEMPORT	ZFP	VOR/DME	H	284.82	281.82	21.98	21.98		10000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DHP	VORTAC	R-057	84	10000	14600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DOLPHIN (FAC 1) AND FREEMPORT (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FT. LAUDERDALE	1, 2		KFLL	FORT LAUDERDALE	FL (US)
DP	FT. LAUDERDALE	1, 2		KFXE	FORT LAUDERDALE	FL (US)
DP	FT. LAUDERDALE	1, 2		KPMP	POMPANO BEACH	FL (US)
EN ROUTE	AR10	1, 2				(BF)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

UPDATED FAC 1 AND FAC 2 FROM HISTORY TO ACTIVE.
 CHANGED FAC 2 MRA FROM 2000 TO 10000.
 ADDED NOTE: DOLPHIN (FAC 1) AND FREEMPORT (FAC 2) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 01/20/2013 **OFFICE:** AJV-352 **NAME:** SEAN BARBEE

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZMA
 ATC FACILITY: MIA APP CON
 OTHER:





Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Susan L. Crumb, Manager, Eastern Products Team, AJV-352

Subject: **ACTION:** Magnetic Variation Change for Fort Lauderdale/Hollywood Intl , Fort Lauderdale, FL (KFLI)

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility' column will be revised effective concurrent with the publication of the procedure(s) listed below.

Fort Lauderdale_Hollywood Intl, Fort Lauderdale, FL (KFLI)

- ILS OR LOC RWY 10L, Amdt 22
- ILS OR LOC RWY 28R, Amdt 10
- *LOC/DME RWY 13, Amdt 2 (CANCEL)
- *RNAV (GPS) RWY 13, Amdt 3 (CANCEL)
- *RNAV (GPS) RWY 31, Amdt 3 (CANCEL)
- RNAV (GPS) Y RWY 28R, Amdt 3
- RNAV (GPS) Z RWY 10L, Amdt 3
- RNAV (RNP) Y RWY 10L, Amdt 1
- RNAV (RNP) Z RWY 28R, Amdt 1
- VOR RWY 28R, Amdt 13
- SID BAHMA THREE (RNAV)
- SID FORT LAUDERDALE THREE
- SID PREDAL TWO (RNAV)
- SID THNDR TWO (RNAV)
- SID ZAPPA TWO (RNAV)
- STAR DEKAL THREE
- STAR GISSH FOUR
- STAR JINGL (RNAV) TWO

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-352 DSmith
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-352 SCrumb
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-341 JAfonso
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE

Miami Intl, Miami, FL (KMIA)

SID MIAMI TWO
SID POTTR FOUR

Hard Chart Date: 05/02/2013

Runway Numbers are affected with the airport rotation; 09L/27R change to 10L/28R; 09R/27L change to 10R/28L; also, *13/31 closed permanently concurrent with this action.

Please publish these changes in the National Flight Data Digest.

FLORIDA

<u>Location</u>	<u>Name</u>	<u>Airport /Facility</u>	<u>Identifier</u>	<u>Assigned Magnetic Variation Is</u>	<u>Epoch Year</u>
Fort Lauderdale	Fort Lauderdale/Hollywood Intl	Airport	KFLL / FLL	Old 3° West New 6° West	2015
Fort Lauderdale		ILS	LHI	Old 3° West New 6° West	2015
Fort Lauderdale		ILS	UDL	Old 3° West New 6° West	2015
Fort Lauderdale		LOC	FLL	Old 3° West New 6° West	2015
Fort Lauderdale	Fort Lauderdale	VOR/DME	FLL	Old 0° East New 6° West	2015

If you have any questions please notify Susan L. Crumb, susan.l.crumb@faa.gov (405-954-8686).

cc: AJV-3rf

sjb:x7537:10/19/2012: (U:\AVN100\PIT\MAGVAR\MAGVAR\MAGVAR Letters 2013\ Change for Fort Lauderdale, FL (KFLL) 10-25-12 @ECD Requestor: CCox , Evaluated By: LFortier