

**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SUPERSEDED NUMBER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>
ELOCO	FIVE	ELOCO5.ELOCO	FOUR	11/10/2016	<b>07 OCT 2021</b>

<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 checked="" type="checkbox"/>

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 4: CLIMB ON HEADING 040.95 TO 560, EXPECT RADAR VECTORS TO ELOCO, THENCE...  
 TAKEOFF RWY 13L: CLIMB ON HEADING 130.93 TO 560, EXPECT RADAR VECTORS TO ELOCO, THENCE...  
 TAKEOFF RWY 13R: CLIMB ON HEADING 130.95 TO 560, EXPECT RADAR VECTORS TO ELOCO, THENCE...  
 TAKEOFF RWY 22: CLIMB ON HEADING 220.96 TO 560, EXPECT RADAR VECTORS TO ELOCO, THENCE...  
 TAKEOFF RWY 31L: CLIMB ON HEADING 310.96 TO 560, EXPECT RADAR VECTORS TO ELOCO, THENCE...  
 TAKEOFF RWY 31R: CLIMB ON HEADING 310.94 TO 560, EXPECT RADAR VECTORS TO ELOCO, THENCE..

...ON TRACK 069.50 TO CHPEE, THEN ON (TRANSITION). MAINTAIN 16000, 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>
WHITE LAKE	ELOCO5.LLA	CHPEE	GRIPY	TRACK 064.59	17.10	8300	1600	
			YOKEM	TRACK 094.84	10.33	10300	3100	
			SBI VOR/DME	TRACK 094.24	16.04	12000	1300	
			LLA VOR/DME	TRACK 087.51	87.00	12000	1700	

**PROCEDURAL DATA NOTES:**

NOTE: DME/DME/IRU OR GPS REQUIRED.  
 NOTE: RADAR REQUIRED.  
 NOTE: RNAV 1.

**TAKEOFF MINIMUMS:**

RWY 4, 13L, 13R, 22, 31L, 31R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 560.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

RWY 22, 31L, 31R: 2049 FT MSL TOWER 293430.00N/0952938.00W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 31R, 31L: 2049 FT MSL TOWER 293430.00N/0952938.00W.

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

REFERENCE MAG VAR: KHOU 3E EPOCH YR: 2015.  
 DME/DME ASSESSMENT: SAT (RNP 2.0).  
 CHART: MEA/MOCA FROM ELOCO TO CHPEE, 3000/1600.



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ELOCO	FIVE	ELOCO5.ELOCO	FOUR	11/10/2016	<b>07 OCT 2021</b>

CHART: TOP ALTITUDE: 16000.

PILOT NAVIGATION AREA:  
7NM ARC CENTERED ON ELOCO (IF) CW  
FROM: POINT A (BEARING 025 DEGREES TO ELOCO).  
TO: POINT B (BEARING 115 DEGREES TO ELOCO).  
MINIMUM ALTITUDE 3000.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
WILLIAM P HOBBY	KHOU	HOUSTON	TX

COMMUNICATIONS:

ATIS, CLNC DEL, HOU GND CON, HOU ATCT, HOU DEP CON, ZHU ARTCC, CPDLC.

FIXES AND/OR NAVAIDS:

REMARKS:

ABBREVIATED AMENDMENT  
ELOCO FIVE ABBREVIATED AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

FLIGHT INSPECTED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020 SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED.

*Digitally signed by*  
**LONNIE EVERHART**  
Jun 28, 2021

OFFICE

DATE

DEVELOPED BY

JON DENTON (JOHN KEEFER)

*Digitally signed by*  
**LONNIE EVERHART**  
Jun 28, 2021

OFFICE

DATE

AJV-A432

05/04/2021

APPROVED BY

LONNIE EVERHART

*Digitally signed by*  
**LONNIE EVERHART**  
Jun 28, 2021

OFFICE

DATE

TITLE

AJV-A430

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZHU ARTCC, HOU DEP CON, HOU ATCT, AMGR

CHANGES - REASONS:

1. UPDATED CLIMB HEADING TO CLIMB ON HEADING IN DP ROUTE DESCRIPTION. - 8260.46G COMPLIANCE.
2. REMOVED RUNWAYS 17, 35 FROM KHOU DP ROUTE DESCRIPTION. - RUNWAYS HAVE BEEN REMOVED.
3. UPDATED ALL REFERENCES FROM ELOCO4. TO ELOCO5. - UPDATES WITH AMENDMENT.
4. REMOVED KHOU RWY 17, 35 FROM TAKEOFF MINIMUMS. - RUNWAYS HAVE BEEN REMOVED.
5. REMOVED KHOU RWY 17 FROM CONTROLLING OBSTACLES. - RUNWAYS HAVE BEEN REMOVED.
6. REMOVED KHOU CONTROLLING OBSTACLE RWY 4: 174 FT MSL BUILDING 293935.00N0951526.00W. - NO 40:1 PENETRATIONS PER ODP.
7. ADDED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 31R, 31L: 2049 FT MSL TOWER 293430.00N/0952938.00W TO KHOU CONTROLLING OBSTACLE. - 8260.46G COMPLIANCE.
8. ADDED CPDLC TO COMMUNICATIONS. - CPDLC IS OFFERED AT THE AIRPORT.
9. ADDED ELOCO FIVE ABBREVIATED AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS. - 8260.46G COMPLIANCE.



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ELOCO	FIVE	ELOC05.ELOCO	FOUR	11/10/2016	<b>07 OCT 2021</b>

10. REMOVED TAKEOFF OBSTACLE NOTES AND ADDED SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP). - 8260-46G COMPLIANCE.



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
ELOCO		FIVE		ELOCO5.ELOCO		FOUR		11/10/2016		07 OCT 2021	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW04 (AER)	293820.80N/0951707.16W	N	-	-	-	-					
560 MSL	-	-	-	VA	043.95	-	AT/ABOVE 560		CG 500 FT PER NM TO 560		
-	-	-	-	VM	043.95	-					
ELOCO	293512.98N/0950110.25W	Y	FB	DF	-	-					
RW13L (AER)	293909.38N/0951701.94W	N	-	-	-	-					
560 MSL	-	-	-	VA	133.93	-	AT/ABOVE 560		CG 500 FT PER NM TO 560		
-	-	-	-	VM	133.93	-					
ELOCO	293512.98N/0950110.25W	Y	FB	DF	-	-					
RW13R (AER)*	293856.26N/0951659.41W*	N	-	-	-	-			*DISPL THLD (1034 FT)		
560 MSL	-	-	-	VA	133.95	-	AT/ABOVE 560		CG 500 FT PER NM TO 560		
-	-	-	-	VM	133.95						
ELCO	293512.98N/0950110.25W	Y	FB	DF	-	-					
RW22 (AER)	293914.97N/0951607.36W	N	-	-	-	-					
560 MSL	-	-	-	VA	223.96	-	AT/ABOVE 560		CG 500 FT PER NM TO 560		
-	-	-	-	VM	223.96	-					
ELOCO	293512.98N/0950110.25W	Y	FB	DF	-	-					
RW31L (AER)	293811.13N/0951605.82W	N	-	-	-	-			CG 500 FT PER NM TO 560		
560 MSL	-	-	-	VA	313.96		AT/ABOVE 560		QUALITY 20		

QUALITY  
20  
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ELOCO		FIVE		ELOCO5.ELOCO		FOUR		11/10/2016	<b>07 OCT 2021</b>
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
-	-	-	-	VM	313.96	-			
ELOCO	293512.98N/0950110.25W	Y	FB	DF	-	-			
RW31R (AER)	293834.02N/0951619.93W	N	-	-	-	-			
560 MSL	-	-	-	VA	313.94	-	AT/ABOVE 560		CG 500 FT PER NM TO 560
-	-	-	-	VM	313.94	-			
ELOCO	293512.98N/0950110.25W	Y	FB	DF	-	-			
ELOCO	293512.98N/0950110.25W	Y	-	IF	-	-			
CHPEE	293809.50N/0945028.01W	Y	FB	TF	072.50	9.78			
CHPEE	293809.50N/0945028.01W	Y	-	IF	-	-			ELOCO5.LLA
GRIPY	294440.29N/0943218.37W	Y	FB	TF	067.59	17.10			
YOKEM	294315.00N/0942033.00W	Y	FB	TF	097.84	10.33			
SBI VOR/DME	294112.19N/0940216.72W	Y	FB	TF	097.24	16.04			
LLA VOR/DME	293947.61N/0922225.11W	Y	FB	TF	090.51	87.00			

