

**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SUPERSEDED NUMBER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>
CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020

<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 21: CLIMB ON HEADING 212.58 TO INTERCEPT COURSE 260.10 TO WRASH, THEN ON TRACK 262.45 TO CROSS CTRUS AT OR ABOVE 5000, THENCE...

...ON ASSIGNED TRANSITION, IKAYE TRANSITION MAINTAIN ALTITUDE AS ASSIGNED BY ATC, ALL OTHER TRANSITIONS MAINTAIN FL230. 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>
COREZ	CTRUS4.COREZ	CTRUS	DZINE	TRACK 349.99	5.46	5000		
			OROSZ	TRACK 347.72	19.72	6000		
			SHORS	TRACK 317.72	25.60	10300		
			MDWAY	TRACK 317.53	12.49	14000		
			COREZ	TRACK 317.48	40.49	14000		
CSTRO	CTRUS4.CSTRO	CTRUS	DZINE	TRACK 349.99	5.46	5000		
			OROSZ	TRACK 347.72	19.72	6000		
			HEYJO	TRACK 338.83	17.77	8000		
			CSTRO	TRACK 318.52	50.20	14000		
HAILO	CTRUS4.HAILO	CTRUS	DZINE	TRACK 349.99	5.46	5000		
			SEAEM	TRACK 042.23	14.82	6000		
			SLAPP	TRACK 008.23	14.17	9000	SLAPP AT/ABOVE 13000	
			YAAPY	TRACK 027.59	15.62	13000	YAAPY AT/ABOVE 15000	
			JETHK	TRACK 066.34	8.01	15000	JETHK AT/BELOW FL190	



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CTRUS			FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020
				BBITE	TRACK 073.76	10.59	15000
				ANTLP	TRACK 075.23	12.39	15000
				GUNNR	TRACK 057.13	27.54	15000
				ARMY	TRACK 035.41	16.52	15000
				HAILO	TRACK 035.44	51.05	15000
HECTOR	CTRUS4.HEC	CTRUS		DZINE	TRACK 349.99	5.46	5000
				SEAEM	TRACK 042.23	14.82	6000
				SLAPP	TRACK 008.23	14.17	9000
				YAAPY	TRACK 027.59	15.62	13000
				JETHK	TRACK 066.34	8.01	15000
				BBITE	TRACK 073.76	10.59	15000
				ANTLP	TRACK 075.23	12.39	15000
				HEC VORTAC	TRACK 072.22	51.92	15000
IKAYE	CTRUS4.IKAYE	CTRUS		WOPPR	TRACK 284.20	5.84	5000
				IKAYE	TRACK 284.22	12.72	5400
LAS VEGAS	CTRUS4.LAS	CTRUS		DZINE	TRACK 349.99	5.46	5000
				SEAEM	TRACK 042.23	14.82	6000
				SLAPP	TRACK 008.23	14.17	9000
				YAAPY	TRACK 027.59	15.62	13000
				JETHK	TRACK 066.34	8.01	15000
				BBITE	TRACK 073.76	10.59	15000



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CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020		
		ANTLP	TRACK 075.23	12.39	15000		
		NNAVY	TRACK 060.07	40.46	15000		
		BLAZN	TRACK 035.24	63.19	15000		
		LAS VORTAC	TRACK 036.23	40.41	15000		
MISEN	CTRUS4.MISEN	CTRUS	DZINE	TRACK 349.99	5.46	5000	
			SEAEM	TRACK 042.23	14.82	6000	
			SLAPP	TRACK 008.23	14.17	9000	SLAPP AT/ABOVE 13000
			YAAPY	TRACK 027.59	15.62	13000	YAAPY AT/ABOVE 15000
			JETHK	TRACK 066.34	8.01	15000	JETHK AT/BELOW FL190
			BBITE	TRACK 073.76	10.59	15000	BBITE AT/ABOVE FL200
			ANTLP	TRACK 075.23	12.39	15000	
			NNAVY	TRACK 060.07	40.46	15000	
			MISEN	TRACK 043.49	19.37	15000	
SCTRR	CTRUS4.SCTRR	CTRUS	DARRK	TRACK 223.59	9.47	5000	DARRK AT/BELOW 12000
			FIXIT	TRACK 281.96	8.49	8500	FIXIT AT/ABOVE 12000
			IKAYE	TRACK 341.75	10.16	12000	
			TESEA	TRACK 303.33	87.19	12000	
			SCTRR	TRACK 311.16	26.58	12000	
STOKD	CTRUS4.STOKD	CTRUS	DARRK	TRACK 223.59	9.47	5000	DARRK AT/BELOW 12000
			FIXIT	TRACK 281.96	8.49	8500	FIXIT AT/ABOVE 12000
			IKAYE	TRACK 341.75	10.16	12000	



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020
	RIZIN	TRACK 289.88	30.53	12000	
	SPLNT	TRACK 302.53	58.02	12000	
	STOKD	TRACK 305.43	32.28	12000	

PROCEDURAL DATA NOTES:

- NOTE: RNAV 1.
- NOTE: DME/DME/IRU OR GPS REQUIRED.
- NOTE: RADAR REQUIRED.
- NOTE: TURBOJET AND TURBOPROP AIRCRAFT ONLY.
- NOTE: TURBOJETS ONLY ON HEC, MISEN, AND LAS TRANSITIONS.
- NOTE: HAILO TRANSITION ATC ASSIGNED ONLY.
- NOTE: CSTRO, COREZ TRANSITIONS: MAINTAIN AT OR BELOW 250 KIAS UNLESS OTHERWISE DIRECTED BY ATC.
- NOTE: TURBOPROP ONLY ON IKAYE TRANSITION (CTRUS - WOPPR - IKAYE).
- NOTE: TURBOJET ONLY ON STOKD AND SCTRR TRANSITIONS (CTRUS - DARRK - FIXIT - IKAYE ...)
- NOTE: MISEN TRANSITION RESTRICTED TO AIRCRAFT LANDING LAS VEGAS TERMINAL AREA.

TAKEOFF MINIMUMS:

- RWY 3: NA-ATC.
- RWY21: STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 680, THEN 310 FT PER NM TO 3800.

TAKEOFF OBSTACLES NOTES:

- NOTE: RWY 21: POLE, TREE BEGINNING 39 FT FROM DER, 357 FT RIGHT OF CENTERLINE, UP TO 13 FT AGL/154 FT MSL. POLE 214 FT FROM DER, 437 FT RIGHT OF CENTERLINE, 30 FT AGL/174 FT MSL. TREES BEGINNING 409 FT FROM DER, 389 FT RIGHT OF CENTERLINE, UP TO 191 FT MSL. TREE, TRANSMISSION LINE BEGINNING 1328 FT FROM DER, 506 FT RIGHT OF CENTERLINE, UP TO 215 FT MSL.

CONTROLLING OBSTACLES:

- RWY 21, 2908 FEET MSL TOWER 340431.68N/1183936.30W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

- REFERENCE MAG VAR: KSMO 12E EPOCH YR: 2020
- DME/DME ASSESSMENT SAT: RNP (2.0).

- CHART: TOP ALTITUDE: IKAYE TRANSITION: AS ASSIGNED BY ATC; ALL OTHER TRANSITIONS: FL230.
- CHART: SPEED ICON MAXIMUM SPEED 250 KIAS AT DZINE.
- CHART: HOLDING AT SPLNT (HOLD SE, LT, 302.53 INBOUND, 10 NM LEGS).
- DO NOT CHART MOCAS.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
SANTA MONICA MUNI	KSMO	SANTA MONICA	CA

COMMUNICATIONS:

- ATIS, SMO TOWER, SOCAL DEP CON.

FIXES AND/OR NAVAIDS:



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020

REMARKS:
 MOCA(S) NOT CHARTED PER ATC REQUEST.
 ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY

OFFICE **DATE**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCT 23, 2018, SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.

Digitally signed by

DEVELOPED BY

DONALD H LANIER

OFFICE **DATE**

TARA N. MARTINELLI

Mar 05, 2020

Tara Nichole Martinelli Digitally signed by Tara Nichole Martinelli
Date: 2019.12.31 08:27:06 -06'00'

AJV-A431

12/31/2019

APPROVED BY

Digitally signed by

GEORGE DAVIS

DONALD H LANIER

OFFICE **DATE**

Mar 05, 2020

AJV-A430

TITLE
MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZLA, SMO ATCT, SOCAL APP CON

CHANGES - REASONS:

1. CHANGED PROCEDURAL DATA NOTE, MISEN TRANSITION NOTE FROM "LANDING LAS VEGAS COMPLEX" TO "LANDING LAS VEGAS TERMINAL AREA" - LAS VEGAS METROPLEX PROJECT REQUEST.

03/03/2020: THIS IS A CORRECTED COPY FOR THE FORM APPROVED ON 01/09/2020.

1. CODING CORRECTED ON PAGE 3 AND 4 OF THE 8260-15C - CHANGED CTRUS3 TO CTRUS4.



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

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020

<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>
RW21 (AER)	340109.29N/1182650.11W	N	-	-	-	-			
	340014.49N/1182754.95W	-	-	VI	224.58	1.28			CG 500 FT PER NM TO 680, 310 FT PER NM TO 3800
WRASH	340002.48N/1183512.63W	Y	FB	CF	272.10	5.66			RECOMMENDED NAVAID: TFD VORTAC
CTRUS	340023.18N/1184033.81W	Y	FB	TF	274.45	4.46	AT/ABOVE 5000		

TRANSITIONS

CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.COREZ
DZINE	340551.04N/1184020.14W	Y	FB	TF	001.99	5.46		AT/BELOW 250K	
OROSZ	342536.18N/1184027.01W	Y	FB	TF	359.72	19.72			
SHORS	344743.61N/1185607.37W	Y	FB	TF	329.72	25.60			
MDWAY	345830.50N/1190349.98W	Y	FB	TF	329.53	12.49			
COREZ	353324.00N/1192901.98W	Y	FB	TF	329.48	40.49			

CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.CSTRO
DZINE	340551.04N/1184020.14W	Y	FB	TF	001.99	5.46		AT/BELOW 250K	
OROSZ	342536.18N/1184027.01W	Y	FB	TF	359.72	19.72			
HEYJO	344310.33N/1184353.04W	Y	FB	TF	350.83	17.77			
CSTRO	352652.66N/1191407.00W	Y	FB	TF	330.52	50.20			

CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.HAILO
DZINE	340551.04N/1184020.14W	Y	FB	TF	001.99	5.46		AT/BELOW 250K	



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CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020				
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
SEAEM	341430.89N/1182549.76W	Y	FB	TF	054.23	14.82			
SLAAP	342750.14N/1181954.07W	Y	FB	TF	020.23	14.17	AT/ABOVE 13000		
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000		
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190		
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200		
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39			
GUNNR	345237.00N/1165913.00W	Y	FB	TF	069.13	27.54			
ARMY	350348.00N/1164424.00W	Y	FB	TF	047.41	16.52			
HAILO	353814.00N/1155816.00W	Y	FB	TF	047.44	51.02			
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.HEC
DZINE	340551.04N/1184020.14W	Y	FB	TF	001.99	5.46		AT/BELOW 250K	
SEAEM	341430.89N/1182549.76W	Y	FB	TF	054.23	14.82			
SLAPP	342750.14N/1181954.07W	Y	FB	TF	020.23	14.17	AT/ABOVE 13000		
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000		
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190		
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200		
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39			
HEC VORTAC	344749.26N/1162746.52W	Y	FB	TF	084.22	51.92			
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.IKAYE
WOPPR	340258.00N/1184652.16W	Y	FB	TF	296.20	5.84			
IKAYE	340835.00N/1190037.00W	Y	FB	TF	296.22	12.72			



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CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020

<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>
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.LAS
DZINE	340551.04N/1184020.14W	Y	FB	TF	001.99	5.46		AT/BELOW 250K	
SEAEM	341430.89N/1182549.76W	Y	FB	TF	054.23	14.82			
SLAPP	342750.14N/1181954.07W	Y	FB	TF	020.23	14.17	AT/ABOVE 13000		
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000		
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190		
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200		
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39			
NNAVY	345510.68N/1164340.88W	Y	FB	TF	072.07	40.46			
BLAZN	353755.21N/1154646.06W	Y	FB	TF	047.24	63.19			
LAS VORTAC	360446.93N/1150935.27W	Y	FB	TF	048.23	40.41			
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.MISEN
DZINE	340551.04N/1184020.14W	Y	FB	TF	001.99	5.46		AT/BELOW 250K	
SEAEM	341430.89N/1182549.76W	Y	FB	TF	054.23	14.82			
SLAPP	342750.14N/1181954.07W	Y	FB	TF	020.23	14.17	AT/ABOVE 13000		
YAAPY	343953.00N/1180750.00W	Y	FB	TF	039.59	15.62	AT/ABOVE 15000		
JETHK	344129.87N/1175819.35W	Y	FB	TF	078.34	8.01	AT/BELOW FL190		
BBITE	344216.22N/1174530.87W	Y	FB	TF	085.76	10.59	AT/ABOVE FL200		
ANTLP	344251.26N/1173029.82W	Y	FB	TF	087.23	12.39			
NAAVY	345510.68N/1164340.88W	Y	FB	TF	072.07	40.46			
MISEN	350608.46N/1162413.86W	Y	FB	TF	055.49	19.37			



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CTRUS	FOUR	CTRUS4.CTRUS	THREE	02/01/2018	21MAY2020

<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>
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.SCTRR
DARRK	335501.06N/1184957.18W	Y	FB	TF	235.59	9.47	AT/BELOW 12000		
FIXIT	335828.00N/1185917.00W	Y	FB	TF	293.96	8.49	AT/ABOVE 12000		
IKAYE	340835.00N/1190037.00W	Y	FB	TF	353.75	10.16			
TESEA	351018.91N/1201522.87W	Y	FB	TF	315.33	87.19			
SCTRR	353135.79N/1203454.69W	Y	FB	TF	323.16	26.58			

CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS4.STOKD
DARRK	335501.06N/1184957.18W	Y	FB	TF	235.59	9.47	AT/BELOW 12000		
FIXIT	335828.00N/1185917.00W	Y	FB	TF	293.96	8.49	AT/ABOVE 12000		
IKAYE	340835.00N/1190037.00W	Y	FB	TF	353.75	10.16			
RIZIN	342439.97N/1193157.04W	Y	FB	TF	301.88	30.53			
SPLNT	350515.00N/1202221.51W	Y	FB	TF	314.53	58.02			
STOKD	352900.57N/1204905.68W	Y	FB	TF	317.43	32.28			

