

**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.
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<u>DP NAME</u>						<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
CTRUS						THREE	CTRUS3.CTRUS	TWO	10/17/2017	
<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 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	CTRUS3.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	CTRUS3.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	CTRUS3.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
			BBITE	TRACK 073.76	10.59	15000		BBITE AT/ABOVE FL200

QUALITY
3
CHECKED

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DP NAME			NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
CTRUS			THREE	CTRUS3.CTRUS	TWO	10/17/2017	
			ANTLP	TRACK 075.23	12.39	15000	
			GUNNR	TRACK 057.13	27.54	15000	
			ARRMY	TRACK 035.41	16.52	15000	
			HAILO	TRACK 035.44	51.05	15000	
HECTOR	CTRUS3.HEC	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	
			HEC VORTAC	TRACK 072.22	51.92	15000	
IKAYE	CTRUS3.IKAYE	CTRUS	WOPPR	TRACK 284.20	5.84	5000	
			IKAYE	TRACK 284.22	12.72	5400	
LAS VEGAS	CTRUS3.LAS	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	

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CTRUS			THREE	CTRUS3.CTRUS	TWO	10/17/2017	
			NNAVY	TRACK 060.07	40.46	15000	
			BLAZN	TRACK 035.24	63.19	15000	
			LAS VORTAC	TRACK 036.23	40.41	15000	
MISEN	CTRUS3.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	CTRUS3.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	CTRUS3.STOKD	CTRUS	DARRK	TRACK 223.59	9.47	50000	DARRK AT/BELOW 12000
			FIXIT	TRACK 281.96	8.49	8500	FIXIT AT/ABOVE 12000
			IKAYE	TRACK 341.75	10.16	12000	
			RIZIN	TRACK 289.88	30.53	12000	

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CTRUS	THREE	CTRUS3.CTRUS	TWO	10/17/2017	
	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: TURBO JETS 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 COMPLEX.

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.



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CTRUS	THREE	CTRUS3.CTRUS	TWO	10/17/2017	

AIRPORTS SERVED:

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

COMMUNICATIONS:

ATIS, SMO TOWER, SOCAL DEP CON

FIXES AND/OR NAVAIDS:

REMARKS:

MOCA(S) NOT CHARTED PER ATC REQUEST.

FLIGHT INSPECTED BY:

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

JIMMY SANG HUGHES

Digitally signed by

JIMMY S HUGHES

Sep 26, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

9/14/2017

APPROVED BY:

JULIE MORGAN

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZLA, SMO ATCT, SOCAL APP CON

CHANGES - REASONS:

1. UPDATED TAKEOFF OBSTACLES - THLD MOVED CHANGED OBSTACLE LOCATION AND DISTANCES.
2. CHANGED DP ROUTE DESCRIPTION FROM: "CLIMB ON HEADING 212.58 TO INTERCEPT COURSE 260.13 TO WRASH..." TO "CLIMB ON HEADING 212.58 TO INTERCEPT COURSE 260.10 TO WRASH..." - SHORTENED RUNWAY CHANGED VI LEG DISTANCE.
3. CHANGED FIX NAME KRAKR TO MDWAY - ATC REQUEST.
4. ADDED CLIMB GRADIENT OF 310 FT PER NM TO 3800. - NEW CONTROLLING OBSTACLE.

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CTRUS							THREE	CTRUS3.CTRUS	TWO	10/17/2017	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
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				
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000			CTRUS3.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			CTRUS3.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			CTRUS3.HAILO	
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				

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DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
CTRUS							THREE	CTRUS3.CTRUS	TWO	10/17/2017	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
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	51.05					
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000		CTRUS3.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		CTRUS3.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					
QUALITY											
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CTRUS							THREE	CTRUS3.CTRUS	TWO	10/17/2017	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
CTRUS	340023.18N/1184033.81W	Y	-	IF	-	-	AT/ABOVE 5000			CTRUS3.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			CTRUS3.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					
NNAVY	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		THREE	CTRUS3.CTRUS	TWO	10/17/2017	

<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		CTRUS3.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		CTRUS3.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			

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