

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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.

Distances are in nautical miles (NM). Graphic depiction attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
EMZOH RNAV	THREE	EMZOH.EMZOH3	TWO	20 AUG 2015	10 DEC 2015

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altit
RGOOD	RGOOD.EMZOH3	RGOOD	RGOOD						
			EMZOH	302.13	52.27	11000	6100		AT/ABOVE FL280

ARRIVAL ROUTE DESCRIPTION:

FROM EMZOH ON TRACK 304.29/19.16 TO CROSS MYJAW AT OR ABOVE FL220 AND AT 280 KIAS (MEA 11000/MOCA 5400), THEN ON TRACK 304.33/28.76 TO CROSS SKIZM BETWEEN 15000 AND FL190 (MEA 11000/MOCA 5800).

LANDING RWY 28L/R: FROM SKIZM ON TRACK 303.13/20.00 TO CROSS MYRIB BETWEEN 9000 AND 10000 AND AT 240 KIAS (MEA 7000/MOCA 6100), THEN ON TRACK 303.69/5.17 TO MYHIP (MEA 7000/MOCA 6300), THEN ON TRACK 291.65/4.23 TO CROSS MYNEE AT 7000 (MEA 7000/MOCA 6300), THEN ON TRACK 291.62/5.20 TO CROSS MYSHN AT OR ABOVE 6200 (MEA 6200), THEN ON TRACK 291.71/4.04 TO CROSS CYMBL AT 5300 (MEA 5300). EXPECT ASSIGNED INSTRUMENT APPROACH PROCEDURE.

LANDING RWY 30: FROM SKIZM ON TRACK 303.13/20.00 TO CROSS MYRIB BETWEEN 9000 AND 10000 AND AT 240 KIAS (MEA 7000/MOCA 6100), THEN ON TRACK 303.69/5.17 TO MYHIP (MEA 7000/MOCA 6300), THEN ON TRACK 291.65/4.23 TO CROSS MYNEE AT 7000 (MEA 7000/MOCA 6300), THEN ON TRACK 291.62/5.20 TO CROSS MYSHN AT OR ABOVE 6200 (MEA 6200), THEN ON TRACK 264.42/3.01 TO CROSS FIXME AT/ABOVE 5200 (MEA 5200), THEN ON TRACK 264.38/3.00 TO CROSS MYCAF AT OR ABOVE 5000 (MEA 5000), THEN ON TRACK 264.35/2.41 TO CROSS BIGPD AT OR ABOVE 4500 (MEA 4500), THEN ON TRACK 264.32/2.41 TO CROSS FRNNY AT OR ABOVE 4100 (MEA 4100/MOCA 3400). EXPECT ASSIGNED INSTRUMENT APPROACH PROCEDURE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: EXPECT TO RECEIVE "DESCEND VIA" CLEARANCE FROM OAKLAND CENTER. NORTHERN CALIFORNIA TRACON WILL ASSIGN LANDING RUNWAY.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT MYJAW: (HOLD SE, RT, 304.29 INBOUND, 10.0 NM LEGS).

COMMUNICATIONS:

ATIS, ZOA, NORCAL APP CON, ATCT, GND CON.

AIRPORTS SERVED:

METROPOLITAN OAKLAND INTL, OAKLAND, CA

LOST COMMUNICATIONS PROCEDURE:

REMARKS: DO NOT CHART MOCAS.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0).

REFERENCE MAGNETIC VARIATION = KOAK 14E/2015

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
EMZOH RNAV	THREE	EMZOH.EMZOH3	TWO	20 AUG 2015	10 DEC 2015

FLIGHT INSPECTED BY:

CHANGES:

- 1) Changed WP name: MIARM to SKIZM.
- 2) Removed "...RECEIVE TRANSITION (WEST/EAST) AND..." from NOTE: EXPECT TO RECEIVE "DESCEND VIA" CLEARANCE FROM...
- 3) Removed RWY 12 transition.
- 4) Removed procedural data notes regarding East and West transitions, meaning of transitions, and expected runway landing direction.
- 5) Removed reference to transitions directions from Arrival Route description.
- 6) Removed notes with direction for non-RNP-AR aircraft.

REASONS:

- 1, 2) ATC request to reduce confusion with similar sounding WP names.
- 3) ATC request to simplify procedures RWY 12 transition now on SKIZM STAR
- 4, 5) No longer applicable since RWY 12 has been removed.
- 6) STAR now connects to ILS's at FRNNY and CYMBL, so these notes are no longer applicable.

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STAR (DATA RECORD)

Arrival Name EMZOH RNAV	Number THREE	STAR Computer Code EMZOH.EMZOH3	Superseded Number TWO	Dated 20 AUG 2015	Effective Date 10 DEC 2015
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
RGOOD	355432.01N / 1195040.77W	Y		IF					RGOOD.EMZOH3
EMZOH	363207.99N / 1203537.79W	Y	FB	TF	316.13	52.27	AT/ABOVE FL280		
Common Route									
EMZOH	363207.99N / 1203537.79W	Y		IF			AT/ABOVE FL280		EMZOH.EMZOH3
MYJAW	364626.36N / 1205130.06W	Y	FB	TF	318.29	19.16	AT/ABOVE FL220	AT 280K	
SKIZM	370754.63N / 1211524.76W	Y	FB	TF	318.33	28.76	15000BFL190		
Runway Transition									
SKIZM	370754.63N / 1211524.76W	Y		IF			15000BFL190		
MYRIB	372233.92N / 1213229.08W	Y	FB	TF	317.13	20.00	9000B10000	AT 240K	
MYHIP	372623.69N / 1213651.51W	Y	FB	TF	317.69	05.17			
MYNEE	372851.63N / 1214110.45W	Y	FB	TF	305.65	04.23	AT 7000		
MYSHN	373153.46N / 1214629.30W	Y	FB	TF	305.62	05.20	AT/ABOVE 6200		
CYMBL	373415.17N / 1215037.07W	Y	FB	TF	305.71	04.04	AT 5300		
KOAK:RWY 28B									
Runway Transition									
SKIZM	370754.63N / 1211524.76W	Y		IF			15000BFL190		
MYRIB	372233.92N / 1213229.08W	Y	FB	TF	317.13	20.00	9000B10000	AT 240K	
MYHIP	372623.69N / 1213651.51W	Y	FB	TF	317.69	05.17			
MYNEE	372851.63N / 1214110.45W	Y	FB	TF	305.65	04.23	AT 7000		
MYSHN	373153.46N / 1214629.30W	Y	FB	TF	305.62	05.20	AT/ABOVE 6200		
FIXME	373219.91N / 1215014.16W	Y	FB	TF	278.42	03.01	AT/ABOVE 5200		
MYCAF	373246.12N / 1215358.08W	Y	FB	TF	278.38	03.00	AT/ABOVE 5000		
BIGPD	373307.11N / 1215657.98W	Y	FB	TF	278.35	02.41	AT/ABOVE 4500		
FRNNY	373328.03N / 1215957.90W	Y	FB	TF	278.32	02.41	AT/ABOVE 4100		
KOAK:RWY 30									

QUALITY
17
CHECKED