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CTAD Commuter Code

Arrivai Name			Number	STAR Computer Code		Supers	eaea iyum	ber	Dated	Effective Date
EMZOH (RNAV)			FOUR	EMZOH.EMZOH4			THREE		12/10/2015	
TRANSITION ROUTE	≣S:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altit	udes / Fixes

 Transition Name	I ransition Computer Codes	From FIX/NAVAID	I 0 FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
RGOOD	RGOOD.EMZOH4	RGOOD	RGOOD						
			EMZOH	302.13	52.27	11000	6200		AT/ABOVE FL280

ARRIVAL ROUTE DESCRIPTION:

A multi call A la ma

OAK: FROM EMZOH ON TRACK 304.29/19.16 TO CROSS MYJAW AT OR ABOVE FL220 AND AT 280 KIAS, THEN ON TRACK 304.33/28.76 TO CROSS SKIZM BETWEEN 15000 AND FL190.

LANDING OAK RWY 12: FROM SKIZM ON TRACK 321.98/12.25 TO CROSS EMAAA BETWEEN 11000 AND 14000, THEN ON TRACK 321.92/12.25 TO CROSS WNDML AT 9000 AND AT 240 KIAS, THEN ON TRACK 321.87/12.25 TO CROSS FOOTO BETWEEN 7000 AND 8000, THEN ON TRACK 313.56/14.62 TO CROSS KEENR AT 7000, THEN ON TRACK 261.83/10.66 TO CROSS LOHGN AT 6000 AND AT 200 KIAS, THEN ON TRACK 260.76/4.00 TO CROSS WHYEE AT OR ABOVE 5000, THEN ON TRACK 260.79/5.00 TO CROSS HIRMO AT 4000, THEN ON TRACK 260.79. EXPECT RNAV (RNP) Z RWY 12 APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING OAK RWY 28L/R, 30: FROM SKIZM ON TRACK 303.13/20.00 TO CROSS MYRIB BETWEEN 9000 AND 10000 AND AT 240 KIAS, THEN ON TRACK 303.69/5.17 TO MYHIP, THEN ON TRACK 291.65/4.23 TO CROSS MYNEE AT 7000 AND AT 200 KIAS, THEN ON TRACK 291.62/5.20 TO CROSS MYSHN AT OR ABOVE 6200. EXPECT ILS OR RNAV APPROACH RWY 28L/R, 30 APPROACH.

LANDING HWD: FROM EMZOH ON TRACK 304.29/19.16 TO CROSS MYJAW AT OR ABOVE FL220 AND AT 280 KIAS, THEN ON TRACK 304.33/28.76 TO CROSS SKIZM BETWEEN 15000 AND FL190, THEN ON TRACK 303.13/20.00 TO CROSS MYRIB BETWEEN 9000 AND 10000 AND AT 240 KIAS, THEN ON TRACK 303.69/5.17 TO MYHIP, THEN ON TRACK 291.65/4.23 TO CROSS MYNEE AT 7000 AND AT 200 KIAS, THEN ON TRACK 271.33/3.20 TO CROSS SHRRP AT OR ABOVE 6200, THEN ON TRACK 271.33. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

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 NM LEGS,

CHART HOLDING AT WNDML: HOLD SE, RT, 321.87 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: ZOA, OAKLAND GND CON, OAKLAND ATCT, HAYWARD GND CON, HAYWARD ATCT.

AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
OAK	OAKLAND	CA
HWD	HAYWARD	CA

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

ROC REDUCTION TAKEN FOR RWY 12 TRANSITION, KEENR-LOHGN SEGMENT.

D-4-4

Fig. ative Date

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
EMZOH (RNAV)	FOUR	EMZOH.EMZOH4	THREE	12/10/2015	

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: OAK 14E/2015.

CHART AT MYSHN TERMINUS: OAK LDG RWY 28L/R, 30

CHART AT HIRMO TERMINUS: OAK LDG RWY 12

CHART AT SHRRP TERMINUS: LDG HWD

FLIGHT INSPECTED BY:	ORGANIZATION:	DATE:		ALLAN WILL
		DATE.	Flight Inspected Signature:	Mar 12, 2025
JOSEPH R JAQUISH	AJF	01/22/2025	i light inspected Signature.	· · · · · · · · · · · · · · · · · · ·
DEVELOPED BY:				Digitally signed by
TODD DAMRON	AJV-A423	10/01/2024	Developed By Signature:	TODD V DAMRON
ADDDOVED BY:				Feb 04, 2025
APPROVED BY: ALLAN WILL	AJV-A423		Approved By Signature:	Digitally signed by
ALLAN WILL	A3V-A423		Approved by Signature.	ALLAN WILL
CHANCES				Mar 12, 2025

CHANGES:

- 1. ADDED OAK RWY 12 TRANSITION.
- 2. ADDED SPEED RESTRICTION AT EMZOH OF AT 280 KIAS
- 3. ADDED SPEED RESTRICTION AT MYNEE OF AT 210 KIAS.
- 4. ADDED HOLDING AT WNDML.
- 5. RGOOD EMZOH MOCA RAISED FROM 6100 TO 6200.
- 6. REMOVED MEA/MOCA VALUES FROM ARRIVAL ROUTE DESCRIPTION.
- 7. REMOVED "DO NOT CHART MOCA'S" FROM ADDITIONAL FLIGHT DATA.
- 8. ADDED ROC REDUCTION REMARK.
- 9. ADDED HWD SATELLITE ARPT WITH ASSOCIATED TRANSITION DATA TO STAR.
- 10. COMBINED AND REVISED RWY 28L/R, 30 FIXES AND TRANSITIONS; FIXES REMOVED INCLUDE CYMBL, FIXME, MYCAF, BIGPD, FRNNY.
- 11. AIRPORTS SERVED: REMOVED NAME AND ADDED IDENT.

REASONS:

- 1 5: ATC REQUESTED.
- 6. NO LONGER DOCUMENTED.
- 7. IAW 8260.19J, 4-5-12B(8).
- 8: ROC REDUCTION TAKEN TO MAINTAIN CARDINAL ALTITUDE.
- 9. ATC REQUESTED.
- 10. ATC REQUESTED DUE TO REMOVING AND COMBINING RNAV STAR'S.
- 11. IAW 8260.19J, 4-5-12G.



Digitally signed by

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
EMZOH (RNAV)	FOUR	EMZOH.EMZOH4	THREE	12/10/2015	

01/14/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/1/24.

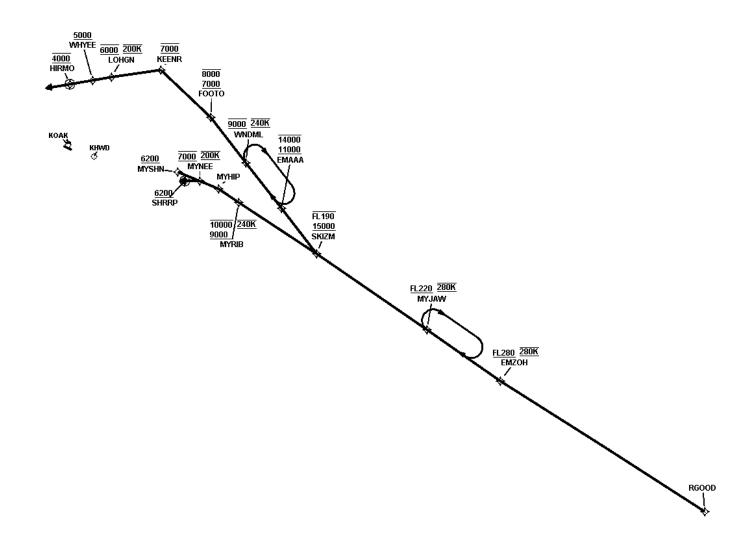
1. FIX LOHGN/MYNEE: SPEED RESTRICTION CHANGED FROM 210 KIAS TO 200 KIAS WITH WAIVER DEVELOPED AND SUBMITTED.



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
EMZOH (RNAV)	FOUR	EMZOH.EMZOH4	THREE	12/10/2015	

Graphic Depiction 1



FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE STAR (DATA RECORD)

Arrival Name EMZOH (RNAV)		Number FOUR		STAR Computer Code EMZOH.EMZOH4		Supersede THR		Dated 12/10/2015	Effective Date	
FIX/NAVAID	LAT/LONG	· <u>c</u>	FO/FB	LEG TYPE	<u>TC</u>	DIST (NM)	ALTITUDE	SPEED	REMARKS	
En Route Transition										
RGOOD	355432.01N / 1195040.77W	Υ		IF					RGOOD.EMZOH4	
EMZOH	363207.99N / 1203537.79W	Υ	FB	TF	316.13	52.27	AT/ABOVE FL280	AT 280K		
Common Route										
EMZOH	363207.99N / 1203537.79W	Υ		IF			AT/ABOVE FL280	AT 280K	EMZOH.EMZOH4	
MYJAW	364626.36N / 1205130.06W	Υ	FB	TF	318.29	19.16	AT/ABOVE FL220	AT 280K		
SKIZM	370754.63N / 1211524.76W	Υ	FB	TF	318.33	28.76	15000BFL190			
Common Route										
EMZOH	363207.99N / 1203537.79W	Υ		IF			AT/ABOVE FL280	AT 280K	EMZOH.EMZOH4	
MYJAW	364626.36N / 1205130.06W	Υ	FB	TF	318.29	19.16	AT/ABOVE FL220	AT 280K		
SKIZM	370754.63N / 1211524.76W	Υ	FB	TF	318.33	28.76	15000BFL190			
MYRIB	372233.92N / 1213229.08W	Υ	FB	TF	317.13	20.00	9000B10000	AT 240K		
MYHIP	372623.69N / 1213651.51W	Υ	FB	TF	317.69	05.17				
MYNEE	372851.63N / 1214110.45W	Υ	FB	TF	305.65	04.23	AT 7000	AT 200K		
SHRRP	372942.39N / 1214503.13W	Υ	FO	TF	285.33	03.20	AT/ABOVE 6200			
KHWD				FM	285.33					
Runway Transition										
SKIZM	370754.63N / 1211524.76W	Υ		IF			15000BFL190			
EMAAA	371906.65N / 1212139.83W	Υ	FB	TF	335.98	12.25	11000B14000			
WNDML	373018.32N / 1212756.75W	Υ	FB	TF	335.92	12.25	AT 9000	AT 240K		
FOOTO	374129.64N / 1213415.31W	Υ	FB	TF	335.87	12.25	7000B8000			
KEENR	375350.51N / 1214409.87W	Υ	FB	TF	327.56	14.62	AT 7000			
LOHGN	375454.79N / 1215733.96W	Υ	FB	TF	275.83	10.66	AT 6000	AT 200K		
WHYEE	375514.63N / 1220236.22W	Υ	FB	TF	274.76	04.00	AT/ABOVE 5000			
HIRMO	375539.54N / 1220854.06W	Υ	FO	TF	274.79	05.00	AT 4000			
KOAK:RWY 12				FM	274.79					

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE STAR (DATA RECORD)

Arrival Name EMZOH (RNAV)		Number FOUR		STAR Computer Code EMZOH.EMZOH4			Superseded THR		Dated 12/10/2015	Effective Date
FIX/NAVAID	LAT/LONG	. <u>C</u>	FO/FB	LEG TYPE		DIST (NM)	ALTITUDE	SPEED	REMARKS	
Runway Transition										
SKIZM	370754.63N / 1211524.76W	Υ		IF			15000BFL190			
MYRIB	372233.92N / 1213229.08W	Υ	FB	TF	317.13	20.00	9000B10000	AT 240K		
MYHIP	372623.69N / 1213651.51W	Υ	FB	TF	317.69	05.17				
MYNEE	372851.63N / 1214110.45W	Υ	FB	TF	305.65	04.23	AT 7000	AT 200K		
MYSHN	373153.46N / 1214629.30W	Υ	FB	TF	305.62	05.20	AT/ABOVE 6200			
KOAK:RWY 28L,RWY 28R,RWY 30										