

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
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.
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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date				
OHSEA (RNAV)	THREE	PCIFC.OHSEA3	TWO	02/28/2019					
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
ELLBC	ELLBC.OHSEA3	ELLBC	ELLBC						
			GOONA	123.13	36.21	11000	9800		AT/ABOVE FL300
			GUDBY	123.16	10.83	11000	9800		AT/ABOVE FL280
			YORBS	124.01	08.62	11000	9000		AT/ABOVE FL250
			PCIFC	124.52	14.26	11000	7200		AT/ABOVE FL200
GOONA	GOONA.OHSEA3	GOONA	GOONA						AT/ABOVE FL300
			GUDBY	123.16	10.83	11000	9800		AT/ABOVE FL280
			YORBS	124.01	08.62	11000	9000		AT/ABOVE FL250
			PCIFC	124.52	14.26	11000	7200		AT/ABOVE FL200
RDHOT	RDHOT.OHSEA3	RDHOT	RDHOT						
			ELLBC	128.66	40.90	11000	9800		
			GOONA	123.13	36.21	11000	9800		AT/ABOVE FL300
			GUDBY	123.16	10.83	11000	9800		AT/ABOVE FL280
			YORBS	124.01	08.62	11000	9000		AT/ABOVE FL250
			PCIFC	124.52	14.26	11000	7200		AT/ABOVE FL200
REBRG	REBRG.OHSEA3	REBRG	REBRG						
			MMTLY	177.43	19.63	12000	11100		
			REESR	143.66	60.53	12000	11100		AT/ABOVE FL300
			RCHEL	140.27	10.78	12000	11100		AT/ABOVE FL280
			SHOLN	139.80	08.80	11000	9000		AT/ABOVE FL250
			PCIFC	139.14	14.93	11000	7300		AT/ABOVE FL200
REESR	REESR.OHSEA3	REESR	REESR						AT/ABOVE FL300
			RCHEL	140.27	10.78	12000	11100		AT/ABOVE FL280
			SHOLN	139.80	08.80	11000	9000		AT/ABOVE FL250
			PCIFC	139.14	14.93	11000	7300		AT/ABOVE FL200



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OHSEA (RNAV)	THREE	PCIFC.OHSEA3	TWO	02/28/2019	

ARRIVAL ROUTE DESCRIPTION:

FROM PCIFC ON TRACK 149.76/9.53 TO CROSS CRAYN AT OR ABOVE 17000, THEN ON TRACK 150.11/10.64 TO CROSS SIPPP AT OR ABOVE 14000, THEN ON TRACK 150.14/10.22 TO CROSS TANDY BETWEEN 13000 AND 14000, THEN ON TRACK 161.91/9.04 TO OHSEA.

LANDING RWY 2L: FROM OHSEA ON TRACK 105.23/9.77 TO CROSS STYFF AT OR BELOW 9000, THEN ON TRACK 110.56/13.65 TO CROSS JJAWS AT OR BELOW 6000, THEN ON TRACK 091.54/8.69 TO CROSS PUZZL AT 5000 AND AT 220 KIAS, THEN ON TRACK 016.69/9.53 TO CROSS MINOE AT 3000 AND AT 210 KIAS. EXPECT RNAV (RNP) Z RWY 2L OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 20R: FROM OHSEA ON TRACK 105.23/9.77 TO CROSS STYFF AT OR BELOW 9000, THEN ON TRACK 079.73/6.71 TO CROSS KAYNN AT OR BELOW 7000, THEN ON TRACK 057.05/8.27 TO CROSS LAXBB AT 5000 AND AT 200 KIAS, THEN ON TRACK 044.30/13.96 TO CROSS KLEVR AT 5000 AND AT 200 KIAS, THEN ON TRACK 016.00. EXPECT RNAV (RNP) Z RWY 20R OR 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: JET AND HIGH PERFORMANCE TURBOPROP AIRCRAFT ONLY.

NOTE: EXPECT RWY 20R UNLESS OTHERWISE ASSIGNED BY ATC.

NOTE: REESR TRANSITION ATC ASSIGNED ONLY.

FIXES AND/OR HOLDING PATTERNS:

COMMUNICATIONS:

CHART: JOHN WAYNE TOWER.

AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
SNA	SANTA ANA	CA

LOST COMMUNICATIONS PREFERENCES:

LANDING RUNWAY 20R: AFTER KLEVR EXECUTE RNAV (RNP) Z RWY 20R APPROACH OR PROCEED TO SAGER AND EXECUTE ILS OR LOC RWY 20R APPROACH.

LANDING RUNWAY 2L: PROCEED ON LOC BC RWY 2L, RNAV (GPS) Y RWY 2L, OR RNAV (RNP) Z RWY 2L.

REMARKS:

MEAS ABOVE MOCAS NEEDED FOR ATC COMM AND/OR D/D/I NAVIGATION, WHICHEVER IS HIGHER.

CHART SAGER AS LOST COMM FIX AS CURRENTLY DEPICTED ON OHSEA TWO ARRIVAL.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: SNA 12E/2015.

CHART AT MINOE TERMINUS: LDG RWY 2L

CHART AT KLEVR TERMINUS: LDG RWY 20R

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OHSEA (RNAV)	THREE	PCIFC.OHSEA3	TWO	02/28/2019	
				<i>Digitally signed by</i> DAVID DANNER Oct 16, 2024	
FLIGHT INSPECTED BY: THOMAS E MOLOKIE	ORGANIZATION: FPO	DATE: 09/27/2024	Flight Inspected Signature:	<i>Digitally signed by</i> DAVID DANNER Oct 16, 2024	
DEVELOPED BY: MANUEL ZURITA	LOS ANGELES ARTCC	01/31/2024	Developed By Signature:	<i>Digitally signed by</i> DAVID DANNER Oct 16, 2024	
APPROVED BY: ALLAN WILL	AJV-A423	12/26/2024	Approved By Signature:	<i>Digitally signed by</i> DAVID DANNER Oct 16, 2024	

CHANGES:

1. TRANSITION ROUTES ELLBC TRANSITION: CHANGED ALL SEGMENTS MEA FROM 17000 TO 11000. CHANGED ELLBC-GOONA AND GOONA-GUDBY SEGMENTS MOCA FROM 9700 TO 9800.
2. TRANSITION ROUTES GOONA TRANSITION: CHANGED ALL SEGMENTS MEA FROM 17000 TO 11000. CHANGED GOONA-GUDBY SEGMENT MOCA FROM 9700 TO 9800.
3. TRANSITION ROUTES RDHOT TRANSITION: CHANGED ALL SEGMENTS MEA FROM 17000 TO 11000. CHANGED RDHOT-ELLBC SEGMENT MOCA FROM 6900 TO 9800. CHANGED ELLBC-GOONA AND GOONA-GUDBY SEGMENTS MOCA FROM 9700 TO 9800.
4. TRANSITION ROUTES REBRG TRANSITION: CHANGED REBRG-MMTLY, MMTLY-REESR, AND REESR-RCHEL SEGMENTS MEA FROM 17000 TO 12000. CHANGED RCHEL-SHOLN AND SHOLN-PCIFC SEGMENTS MEA FROM 17000 TO 11000. CHANGED REBRG-MMTLY SEGMENT MOCA FROM 2700 TO 11100.
5. TRANSITION ROUTES REESR TRANSITION: CHANGED REESR-RCHEL SEGMENT MEA FROM 17000 TO 12000. CHANGED RCHEL-SHOLN AND SHOLN-PCIFC SEGMENT MEA FROM 17000 TO 11000.
6. ARRIVAL ROUTE DESCRIPTION COMMON ROUTE: CHANGED TANDY-OHSEA SEGMENT TRACK FROM 151.54 TO 161.91.
7. ARRIVAL ROUTE DESCRIPTION RWY 2L TRANSITION: CHANGED OHSEA-STYFF SEGMENT TRACK FROM 110.50 TO 105.23. ADDED A 220 KIAS SPEED RESTRICTION AT PUZZL. CHANGED VECTORS TO RADAR VECTORS.
8. ARRIVAL ROUTE DESCRIPTION RWY 20R TRANSITION: CHANGED OHSEA-STYFF SEGMENT TRACK FROM 110.50 TO 105.23. ADDED 200 KIAS SPEED RESTRICTIONS AT LAXBB AND KLEVR. CHANGED TRACK LEAVING KLEVR FROM 015.88 TO 116.00 AND REMOVED BHEAR. CHANGED VECTORS TO RADAR VECTORS.
9. PBN REQUIREMENTS NOTES: ADDED RNAV 1 - DME/DME/IRU OR GPS.
10. EQUIPMENT REQUIREMENT NOTES: ADDED RADAR REQUIRED.
11. PROCEDURAL DATA NOTES: CHANGED TURBOJET TO JET.
12. PROCEDURAL DATA NOTES: REMOVED NOTE: RADAR REQUIRED, NOTE: RNAV 1, AND NOTE: DME/DME/IRU OR GPS REQUIRED.
13. COMMUNICATIONS: REMOVED SNA ATIS AND SOCAL APP CON. ADDED CHART.
14. AIRPORTS SERVED: REMOVED JOHN WAYNE AIRPORT-ORANGE COUNTY.
15. LOST COMMUNICATIONS PREFERENCES LANDING RWY 20R: CHANGED FROM AFTER BHEAR TURN RIGHT DIRECT SAGER AND PROCEED ON THE ILS OR LOC RWY 20R APPROACH TO AFTER KLEVR EXECUTE RNAV (RNP) Z RWY 20R APPROACH OR PROCEED TO SAGER AND EXECUTE ILS OR LOC RWY 20R APPROACH.
16. REMARKS: ADDED MEAS ABOVE MOCAS NEEDED FOR ATC COMM AND/OR D/D/I NAVIGATION, WHICHEVER IS HIGHER AND CHART SAGER AS LOST COMM FIX AS CURRENTLY DEPICTED ON OHSEA TWO ARRIVAL.
17. ADDITIONAL FLIGHT DATA: CHANGED REFERENCE MAGNETIC VARIATION = KSNA 12E/2015 TO MAG VAR: SNA 12E/2015.
18. ADDITIONAL FLIGHT DATA: REMOVED DO NOT CHART MOCAS.
19. ADDITIONAL FLIGHT DATA: ADDED CHART AT MINOE TERMINUS: LDG RWY 2L AND CHART AT KLEVR TERMINUS: LDG RWY 20R.

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OHSEA (RNAV)	THREE	PCIFC.OHSEA3	TWO	02/28/2019	

REASONS:

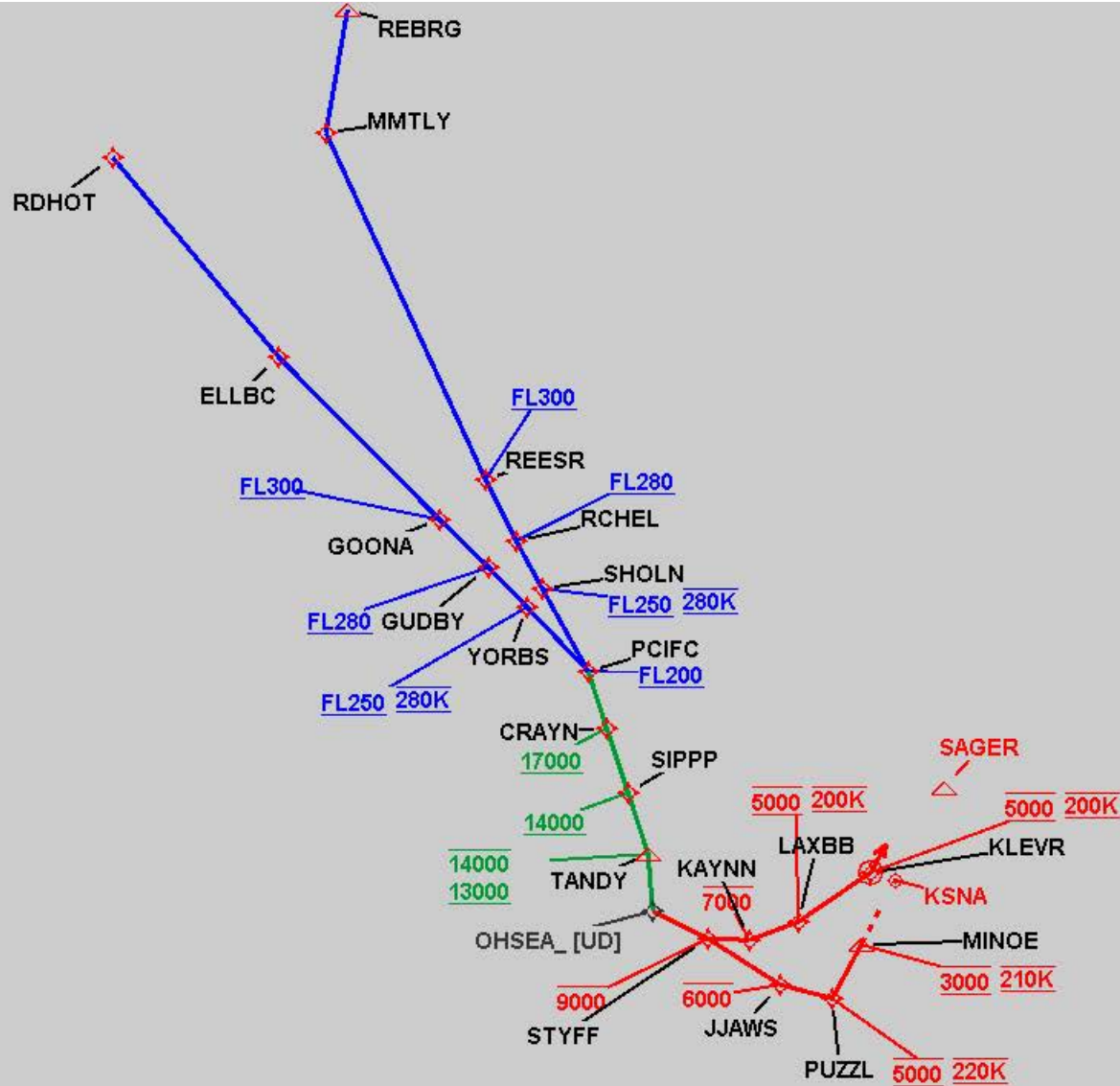
- 1-5. ATC REQUEST/SEGMENT MOCA MUST NOT BE HIGHER THAN THE PREVIOUS SEGMENT MOCA PER FAAO 8260.3E, PARA 2-2-7.D.(3) CRITERIA.
6. OHSEA COORDINATES UPDATED - FIX MOVED 1.7 NM EAST PER ATC REQUEST.
7. OHSEA COORDINATES UPDATED - FIX MOVED 1.7 NM EAST PER ATC REQUEST/SPEED RESTRICTION ADDED PER ATC REQUEST/CLARIFICATION OF THE WORD VECTORS.
8. OHSEA COORDINATES UPDATED - FIX MOVED 1.7 NM EAST PER ATC REQUEST/SPEED RESTRICTIONS ADDED PER ATC REQUEST/ATC REQUEST/CLARIFICATION OF THE WORD VECTORS.
9. REQUIRED DOCUMENTATION PER FAAO 8260.19J, PARA 4-5-12D(1) CRITERIA.
10. REQUIRED DOCUMENTATION PER FAAO 8260.19J, PARA 4-5-12D(2) CRITERIA.
11. UPDATED DOCUMENTATION REQUIREMENT PER FAAO 8260.19J, PARA 4-5-12d(3)(a)
12. NOTES MOVED TO PBN REQUIREMENT NOTES AND EQUIPMENT REQUIREMENT NOTES SECTIONS.
13. ATIS AND APPROACH CONTROL FREQUENCIES CHARTED AUTOMATICALLY - NO LONGER REQUIRED TO BE DOCUMENTED/REQUIRED DOCUMENTATION PER FAAO 8260.19J, PARA 4-5-12F CRITERIA.
14. AIRPORT NAME NO LONGER DOCUMENTED PER FAAO 8260.19J, PARA 4-5-12G CRITERIA.
15. ATC REQUEST.
16. EXPLANATORY INFORMATION ADDED FOR FUTURE DEVELOPMENT REFERENCE/ATC REQUEST/REQUIRED DOCUMENTATION PER FAAO 8260.19J, PARA 4-5-12E CRITERIA.
17. UPDATED DOCUMENTATION REQUIREMENT PER FAAO 8260.19J, PARA 4-5-12j(2).
18. MOCAS 500 FEET OR MORE BELOW MEAS MUST BE CHARTED PER FAAO 8260.19J, PARA 4-5-12(b)8 CRITERIA.
19. REQUIRED DOCUMENTATION PER FAAO 8260.19J, PARA 4-5-12J(5) CRITERIA.

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OHSEA (RNAV)	THREE	PCIFC.OHSEA3	TWO	02/28/2019	

Graphic Depiction 1



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

Arrival Name OHSEA (RNAV)	Number THREE		STAR Computer Code PCIFC.OHSEA3		Superseded Number TWO		Dated 02/28/2019		Effective Date
<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>
En Route Transition									
ELLBC	350348.28N / 1195001.16W	Y		IF					ELLBC.OHSEA3
GOONA	343802.26N / 1191903.85W	Y	FB	TF	135.13	36.21	AT/ABOVE FL300		
GUDBY	343020.49N / 1190949.56W	Y	FB	TF	135.16	10.83	AT/ABOVE FL280		
YORBS	342407.71N / 1190235.65W	Y	FB	TF	136.01	08.62	AT/ABOVE FL250	AT 280K	
PCIFC	341345.15N / 1185045.59W	Y	FB	TF	136.52	14.26	AT/ABOVE FL200		
En Route Transition									
GOONA	343802.26N / 1191903.85W	Y		IF			AT/ABOVE FL300		GOONA.OHSEA3
GUDBY	343020.49N / 1190949.56W	Y	FB	TF	135.16	10.83	AT/ABOVE FL280		
YORBS	342407.71N / 1190235.65W	Y	FB	TF	136.01	08.62	AT/ABOVE FL250	AT 280K	
PCIFC	341345.15N / 1185045.59W	Y	FB	TF	136.52	14.26	AT/ABOVE FL200		
En Route Transition									
RDHOT	353533.31N / 1202136.43W	Y		IF					RDHOT.OHSEA3
ELLBC	350348.28N / 1195001.16W	Y	FB	TF	140.66	40.90			
GOONA	343802.26N / 1191903.85W	Y	FB	TF	135.13	36.21	AT/ABOVE FL300		
GUDBY	343020.49N / 1190949.56W	Y	FB	TF	135.16	10.83	AT/ABOVE FL280		
YORBS	342407.71N / 1190235.65W	Y	FB	TF	136.01	08.62	AT/ABOVE FL250	AT 280K	
PCIFC	341345.15N / 1185045.59W	Y	FB	TF	136.52	14.26	AT/ABOVE FL200		
En Route Transition									
REBRG	355853.00N / 1193653.00W	Y		IF					REBRG.OHSEA3
MMTLY	353929.51N / 1194049.65W	Y	FB	TF	189.43	19.63			
REESR	344411.51N / 1191033.25W	Y	FB	TF	155.66	60.53	AT/ABOVE FL300		
RCHEL	343437.76N / 1190428.71W	Y	FB	TF	152.27	10.78	AT/ABOVE FL280		
SHOLN	342651.39N / 1185926.98W	Y	FB	TF	151.80	08.80	AT/ABOVE FL250	AT 280K	
PCIFC	341345.15N / 1185045.59W	Y	FB	TF	151.14	14.93	AT/ABOVE FL200		

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

Arrival Name OHSEA (RNAV)	Number THREE		STAR Computer Code PCIFC.OHSEA3			Superseded Number TWO		Dated 02/28/2019	Effective Date
<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>
En Route Transition									
REESR	344411.51N / 1191033.25W	Y		IF			AT/ABOVE FL300		REESR.OHSEA3
RCHEL	343437.76N / 1190428.71W	Y	FB	TF	152.27	10.78	AT/ABOVE FL280		
SHOLN	342651.39N / 1185926.98W	Y	FB	TF	151.80	08.80	AT/ABOVE FL250	AT 280K	
PCIFC	341345.15N / 1185045.59W	Y	FB	TF	151.14	14.93	AT/ABOVE FL200		
Common Route									
PCIFC	341345.15N / 1185045.59W	Y		IF			AT/ABOVE FL200		PCIFC.OHSEA3
CRAYN	340441.05N / 1184710.15W	Y	FB	TF	161.76	09.53	AT/ABOVE 17000		
SIPPP	335432.58N / 1184314.60W	Y	FB	TF	162.11	10.64	AT/ABOVE 14000		
TANDY	334447.67N / 1183929.06W	Y	FB	TF	162.14	10.22	13000B14000		
OHSEA	333547.24N / 1183820.13W	Y	FB	TF	173.91	09.04			
Runway Transition									
OHSEA	333547.24N / 1183820.13W	Y		IF					
STYFF	333118.00N / 1182756.40W	Y	FB	TF	117.23	09.77	AT/BELOW 9000		
JJAWS	332355.53N / 1181411.85W	Y	FB	TF	122.56	13.65	AT/BELOW 6000		
PUZZL	332152.78N / 1180406.49W	Y	FB	TF	103.54	08.69	AT 5000	AT 220K	
MINOE	333015.37N / 1175838.10W	Y	FB	TF	028.69	09.53	AT 3000	AT 210K	
KSNA:RWY 2L									
Runway Transition									
OHSEA	333547.24N / 1183820.13W	Y		IF					
STYFF	333118.00N / 1182756.40W	Y	FB	TF	117.23	09.77	AT/BELOW 9000		
KAYNN	333105.60N / 1181955.30W	Y	FB	TF	091.73	06.71	AT/BELOW 7000		
LAXBB	333403.00N / 1181040.80W	Y	FB	TF	069.05	08.27	AT 5000	AT 200K	
KLEVR	334147.70N / 1175645.74W	Y	FO	TF	056.30	13.96	AT 5000	AT 200K	
KSNA:RWY 20R									
				FM	028.00				

