

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date				
KAENA (RNAV)	THREE	KAENA.KAENA3	TWO	10/20/2011	16 May 2024				
TRANSITION ROUTES:									
This is a corrected copy of the procedure published in NFDD 066. See page 5 for details.									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
AUNTI	AUNTI.KAENA3	AUNTI	AUNTI						
			AHHEE	204.48	63.32	16000	2700		
			EXCES	204.02	89.95	12000	2700		BETWEEN FL280 AND FL450
			PISKE	219.34	55.88	12000	2700		AT/ABOVE FL220
			HAWYN	219.76	15.37	6000	2700		BETWEEN 17000 AND FL190
			OPAHH	232.84	33.20	6000	2700		AT/ABOVE 8000
			KAENA	190.80	08.74	6000	2700		BETWEEN 6000 AND 8000
BITTA	BITTA.KAENA3	BITTA	BITTA						
			BECAN	224.01	81.20	16000	7000		
			EXCES	223.39	12.48	12000	2700		BETWEEN FL280 AND FL450
			PISKE	219.34	55.88	12000	2700		AT/ABOVE FL220
			HAWYN	219.76	15.37	6000	2700		BETWEEN 17000 AND FL190
			OPAHH	232.84	33.20	6000	2700		AT/ABOVE 8000
			KAENA	190.80	08.74	6000	2700		BETWEEN 6000 AND 8000
CLUTS	CLUTS.KAENA3	CLUTS	CLUTS						
			CONED	238.60	107.00	16000	3200		
			FROWS	237.89	11.79	6000	2700		BETWEEN FL280 AND FL450
			REWWA	237.82	55.88	6000	2700		AT/ABOVE FL220
			HAWYN	237.23	15.39	6000	2700		BETWEEN 17000 AND FL190
			OPAHH	232.84	33.20	6000	2700		AT/ABOVE 8000
			KAENA	190.80	08.74	6000	2700		BETWEEN 6000 AND 8000
DENNS	DENNS.KAENA3	DENNS	DENNS						
			DANYA	251.52	139.67	16000	3200		
			LEEIA	252.10	12.06	6000	2700		BETWEEN FL280 AND FL450
			CIGAN	252.02	55.88	6000	2700		AT/ABOVE FL220
			HAWYN	250.69	15.36	6000	2700		BETWEEN 17000 AND FL190
			OPAHH	232.84	33.20	6000	2700		AT/ABOVE 8000

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Arrival Name KAENA (RNAV)	Number THREE			STAR Computer Code KAENA.KAENA3	Superseded Number TWO			Dated 10/20/2011	Effective Date 16 May 2024
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			KAENA	190.80	08.74	6000	2700		BETWEEN 6000 AND 8000
ZOULU	ZOULU.KAENA3	ZOULU	ZOULU						
			ZELDO	178.49	65.53	FL200	2700		
			EXCES	177.61	90.23	12000	2700		BETWEEN FL280 AND FL450
			PISKE	219.34	55.88	12000	2700		AT/ABOVE FL220
			HAWYN	219.76	15.37	6000	2700		BETWEEN 17000 AND FL190
			OPAHH	232.84	33.20	6000	2700		AT/ABOVE 8000
			KAENA	190.80	08.74	6000	2700		BETWEEN 6000 AND 8000

**ARRIVAL ROUTE DESCRIPTION:**

LANDING RWY 8L: FROM KAENA ON TRACK 116.32/15.32 TO CROSS SELIC AT OR ABOVE 4000 AND AT 220 KIAS. EXPECT ILS/LOC/RNP RWY 8L APPROACH.

**PBN REQUIREMENT NOTES:**

RNAV 1 - GPS

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

**PROCEDURAL DATA NOTES:**

NOTE: JET AND TURBOPROP AIRCRAFT ONLY

NOTE: GPS REQUIRED

NOTE: DO NOT FILE BITTA, CLUTS, AND DENNS TRANSITIONS - TO BE ASSIGNED BY ATC

NOTE: JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL 280K, IF UNABLE, ADVISE ATC.

NOTE: EXPECT PHNL ILS/RNP/GPS RWY 8L APPCH, OR RADAR VECTORS TO FINAL APPCH COURSE IF ILS OTS.

NOTE: INTERAGENCY AGREEMENT PERMITS USAGE AT ALL TIMES REGARDLESS OF SPECIAL USE AIRSPACE ACTIVITY.

**FIXES AND/OR HOLDING PATTERNS:****COMMUNICATIONS:**

CHART: HCF CENTER

CHART: APCH CON

CHART: HNL TWR

**AIRPORTS SERVED:**

AIRPORT ID  
PHNL

CITY  
HONOLULU

STATE  
HI



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
KAENA (RNAV)	THREE	KAENA.KAENA3	TWO	10/20/2011	16 May 2024

LOST COMMUNICATIONS PREFERENCES:REMARKS:ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: UNSAT.

MAG VAR: PHNL 11E/1990.

CHART AT SELIC TERMINUS: PHNL LDG RWY 8L

FLIGHT INSPECTED BY:

JAMES HAWLEY

ORGANIZATION:

FPO

DATE:

03/29/2024

Flight Inspected Signature:

Digitally signed by

JOHN BORDY

Apr 04, 2024

DEVELOPED BY:

DANIEL WESTON

AJV-A422

09/26/2023

Developed By Signature:

Digitally signed by

JOHN BORDY

Apr 04, 2024

Digitally signed by

JOHN BORDY

Apr 04, 2024

APPROVED BY:

JOHN BORDY

AJV-A33

04/04/2024

Approved By Signature:

CHANGES:

1. ADDED STAR TERMINUS: RWY 8L.
2. APACK TRANSITION REMOVED FROM THE STAR.
3. ZIGIE TRANSITION REMOVED FROM THE STAR.
4. ADDED AUNTI TRANSITION TO THE STAR. AUNTI-AHHEE, MEA 16000, MOCA 2700, AHHEE-EXCES-PISKE, MEA 12000, MOCA 2700, PISKE-HAWYN-OPAHH-KAENA, MEA 6000, MOCA 2700.
5. ADDED ZOULU TRANSITION TO THE STAR. ZOULU-ZELDO, MEA FL200 MOCA 2700, ZELDO-EXCES-PISKE, MEA 12000, MOCA 2700, PISKE-HAWYN-OPAHH-KAENA, MEA 6000, MOCA 2700.
6. BITTA TRANSITION CHANGED FROM BITTA-BECAN-NEEEL-KAENA TO BITTA-BECAN, MEA 1600, MOCA 7000, BECAN-EXCES-PISKE, MEA 12000, MOCA 2700, PISKE-HAWYN-OPAHH-KAENA, MEA 6000, MOCA 2700.
7. CLUTS TRANSITION CHANGED & MEA'S LOWERED TO CLUTS-CONED, 16000, CONED-FROWS-REWWA-HAWYN-OPAHH-KAENA, 6000. ADDED MOCAS CLUTS-CONED, 3200, CONED-FROWS-REWWA-HAWYN-OPAHH-KAENA, 2700.
8. DENNS TRANSITION MEA'S LOWERED TO DENNS-DANYA, 16000, DANYA-LEEIA-CIGAN-HAWYN-OPAHH-KAENA, 6000. ADDED MOCAS DENNS-DANYA, 3200, DANYA-LEEIA-CIGAN-HAWYN-OPAHH-KAENA, 2700.
9. WAYPOINT HNAPI REMOVED FROM THE STAR.
10. WAYPOINT NEEEL REMOVED FROM THE STAR.
11. ADDED HAWYN WP AND ALTITUDE RESTRICTION, BETWEEN 8000 AND FL190.
12. CHANGED KAENA ALTITUDE RESTRICTION FROM AT OR ABOVE 7000 TO BLOCK ALTITUDE AT OR ABOVE 6000, AT OR BELOW 8000.
13. REMOVED RABBS FROM THE STAR.
14. REMOVED MAKOA FROM THE STAR.
15. REMOVED ZILAN FROM THE STAR.

QUALITY  
14  
CHECKED

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
<b>KAENA (RNAV)</b>	<b>THREE</b>	<b>KAENA.KAENA3</b>	<b>TWO</b>	<b>10/20/2011</b>	<b>16 May 2024</b>
16. REMOVED ALOCA FROM THE STAR.					
17. ADDED EXCES TO THE STAR, AOA 28000/AOB 45000.					
18. ADDED SELIC TO THE STAR WITH RESTRICTIONS, AT OR ABOVE 3600 AND AT 220 KTS.					
19. KAENA MOVED 5.52NM SW FOR OPERATIONAL NECESSITY.					
20. ADDED OPAHH TO THE STAR, AOA 8000.					
21. CHANGED CHART NOTE FROM TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNIL INTERCEPTING 280K, MAINTAIN 280K UNTIL 10000 MSL TO JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL 280K, IF UNABLE, ADVISE ATC.					
22. CHANGED AIRPORT SERVED FROM HONOLULU INTL HONOLULU, HI TO PHNL HNOLULU, HI.					
23. CHANGED PROCEDURAL DATA NOTE FROM "EXPECT PHNL ILS RWY 8L APPROACH AT MAKOA, OR RADAR VECTORS IF ILS OTS" TO "EXPECT PHNL ILS/RNP/GPS RWY 8L APPCH, OR RADAR VECTORS TO FINAL APPCH COURSE IF ILS OTS".					
24. COMMON ROUTE REPLACED WITH RUNWAY TRANSITION.					
25. CHANGED ARRIVAL ROUTE DESCRIPTION "FROM KAENA AS DEPICTED TO MAKOA. CROSS RABBS AT/ABOVE 4000, CROSS MAKOA AT/BELOW 3700 AND AT/ABOVE 3400 AND AT/BELOW 210 KIAS. EXPECT PHNL ILS RWY 8L APPROACH" TO "LANDING RWY 8L: FROM KAENA ON TRACK 116.32/15.32 TO CROSS SELIC AT 3600 AND at 220 KIAS. EXPECT ILS/LOC/RNP RWY 8L APPROACH.					
26. ADDED NOTE: "INTERAGENCY AGREEMENT PERMITS USAGE AT ALL TIMES REGARDLESS OF SPECIAL USE AIRSPACE ACTIVITY".					

**REASONS:**

1. IAW FAAO 8260.19I 4-5-2 h (2) STAR TERMINUS DATA.
2. ATC REQUEST.
3. ATC REQUEST.
4. AUNTI TRANSITION ADDED TO REPLACE THE APACK TRANSITION. MOVED EAST TO SEPARATE FROM ZOULU (OLD ZIGIE) TRANSITION AND SEPARATE FROM THE ATCAA.
5. ZOULU TRANSITION ADDED TO REPLACE THE ZIGIE TRANSITION AND SEPARATE FROM THE ATCAA. ALSO MOVED EAST.
6. ADDED EXCES, HAWYN, AND OPAHH TO THE TRANSITION WITH RESTRICTIONS TO SEPARATE FROM MILITARY OPERATIONS.
7. CLUTS TRANSITION CHANGED PER ATC REQUEST. WAYPOINTS ADDED (HAWYN, OPAHH) WITH RESTRICTIONS TO SEPARATE FROM MILITARY OPERATIONS.
8. DENNS TRANSITION CHANGED PER ATC REQUEST. WAYPOINTS ADDED (HAWYN, OPAHH) WITH RESTRICTIONS TO SEPARATE FROM MILITARY OPERATIONS.
9. HNAPI WP REMOVED DUE TO REDESIGN OF THE STAR PER ATC REQUEST.
10. NEEEL WP REMOVED DUE TO STAR REDESIGN, PER ATC REQUEST.
11. HAWYN WP WITH RESTRICTIONS ADDED TO THE STAR PER ATC REQUEST. RESTRICTIONS NEEDED TO SEPARATE FROM MILITARY AIRCRAFT.
12. KAENA ALTITUDE RESTRICTION CHANGED TO ENSURE RADIO AND RADAR COVERAGE. OPERATIONAL NECESSITY.
13. OPERATIONAL NECESSITY, STAR DESIGN CHANGE PER ATC REQUEST.
14. OPERATIONAL NECESSITY, STAR DESIGN CHANGE WITH NEW TERMINUS, PER ATC REQUEST.
15. ZILAN WP REMOVED DUE TO REMOVAL OF ZIGIE TRANSITION, PER ATC DESIGN CHANGE REQUEST.
16. ALOCA WP REMOVED DUE TO REMOVAL OF APACK TRANSITION, PER ATC DESIGN CHANGE REQUEST.
17. EXCES WP ADDED WITH RESTRICTIONS DUE TO STAR DESIGN CHANGES TO SEPARATE FROM MILITARY AIRCRAFT OPERATING IN W190 AND ATCAA.
18. ADDED SELIC WP TO THE STAR WITH RESTRICTIONS (STAR TERMINUS) TO PROVIDE CONNECTIVITY TO THE REDESIGNED ILS/GPS/RNP RWY 8L.
19. KAENA WP MOVED TO ENSURE RADIO AND RADAR COVERAGE ISSUES FROM OLD DESIGN.
20. ADDED OPAHH WP TO THE STAR TO ENSURE SEPARATION FROM MILITARY AIRCRAFT TRANSITIONING TO AND FROM THE WARNING AREAS.
21. CONFORMS WITH LATEST GUIDANCE TO AVOID CONFUSION.
22. IAW 8260.19I 4-5-12 G.
23. MAKOA REMOVED FROM ARRIVAL AND ADDED RNP/GPS APPROACHES.

QUALITY  
14  
CHECKED

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- 24. ARRIVAL CONNECTS TO IAP.
- 25. ROUTE CHANGE PER ATC REQUEST, AND IAW 8260.3E 2-2-9 C.
- 26. ATC REQUEST.

01/31/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/26/23.

- 1. ADDED WP FROWS TO CLUTS TRANSITION WITH RESTRICTION BETWEEN FL280 and FL450 - ATC REQUEST.
- 2. ADDED WP LEEIA TO DENNS TRANSITION WITH RESTRICTION BETWEEN FL280 and FL450 - ATC REQUEST.
- 3. ADDED WP PISKE TO AUNTI, BITTA, AND ZOULU TRANSITIONS WITH RESTRICTION AT OR ABOVE FL220 - ATC REQUEST.
- 4. ADDED WP REWWA TO CLUTS TRANSITION WITH RESTRICTION AT OR ABOVE FL220 - ATC REQUEST.
- 5. ADDED WP CIGAN TO DENNS TRANSITION WITH RESTRICTION AT OR ABOVE FL220 - ATC REQUEST.
- 6. CHANGED WP HAWYN ALTITUDE RESTRICTION, BETWEEN 17000 AND FL190 - ATC REQUEST.
- 7. ADDED CHART NOTE: DO NOT FILE BITTA, CLUTS, AND DENNS TRANSITIONS - TO BE ASSIGNED BY ATC - ATC REQUEST.
- 8. ADDED NOTE: "INTERAGENCY AGREEMENT PERMITS USAGE AT ALL TIMES REGARDLESS OF SPECIAL USE AIRSPACE ACTIVITY" - ATC REQUEST.

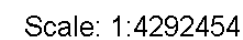
04/03/2024: THIS IS AN CORRECTED COPY OF THE FORM APPROVED ON 04/01/2024.

- 1. 8260.17-1: ARRIVAL ROUTE DESCRIPTION: CHANGED FROM "LANDING RWY 8L: FROM KAENA ON TRACK 116.32/15.32 TO CROSS SELIC AT OR ABOVE 3600 AND AT 220 KIAS. EXPECT ILS/LOC/RNP RWY 8L APPROACH" TO "LANDING RWY 8L: FROM KAENA ON TRACK 116.32/15.32 TO CROSS SELIC AT OR ABOVE 4000 AND AT 220 KIAS. EXPECT ILS/LOC/RNP RWY 8L APPROACH" - PER FLIGHT CHECK RESULTS.
- 2. 8260.17-2: RUNWAY TRANSITION: SELIC ALTITUDE CHANGE FROM "AT/ABOVE 3600" TO "AT/ABOVE 4000" - PER FLIGHT CHECK RESULTS.



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### Graphic Depiction 1



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STAR (DATA RECORD)

Arrival Name KAENA (RNAV)	Number THREE	STAR Computer Code KAENA.KAENA3		Superseded Number TWO		Dated 10/20/2011	Effective Date 16 May 2024		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
AUNTI	244317.00N / 1551547.00W	Y		IF					AUNTI.KAENA3
AHHEE	235127.83N / 1555552.55W	Y	FB	TF	215.48	63.32			
EXCES	223723.11N / 1565140.12W	Y	FB	TF	215.02	89.95	FL280BFL450		
PISKE	220129.04N / 1573757.90W	Y	FB	TF	230.34	55.88	AT/ABOVE FL220		
HAWYN	215142.89N / 1575045.94W	Y	FB	TF	230.76	15.37	17000BFL190		
OPAHH	213658.54N / 1582244.87W	Y	FB	TF	243.84	33.20	AT/ABOVE 8000		
KAENA	212849.75N / 1582613.74W	Y	FB	TF	201.80	08.74	6000B8000		
En Route Transition									
BITTA	233140.91N / 1552843.81W	Y		IF					BITTA.KAENA3
BECAN	224441.00N / 1564042.00W	Y	FB	TF	235.01	81.20			
EXCES	223723.11N / 1565140.12W	Y	FB	TF	234.39	12.48	FL280BFL450		
PISKE	220129.04N / 1573757.90W	Y	FB	TF	230.34	55.88	AT/ABOVE FL220		
HAWYN	215142.89N / 1575045.94W	Y	FB	TF	230.76	15.37	17000BFL190		
OPAHH	213658.54N / 1582244.87W	Y	FB	TF	243.84	33.20	AT/ABOVE 8000		
KAENA	212849.75N / 1582613.74W	Y	FB	TF	201.80	08.74	6000B8000		
En Route Transition									
CLUTS	230011.73N / 1543917.18W	Y		IF					CLUTS.KAENA3
CONED	222209.00N / 1562729.00W	Y	FB	TF	249.60	107.00			
FROWS	221752.91N / 1563920.65W	Y	FB	TF	248.89	11.79	FL280BFL450		
REWWA	215727.39N / 1573523.77W	Y	FB	TF	248.82	55.88	AT/ABOVE FL220		
HAWYN	215142.89N / 1575045.94W	Y	FB	TF	248.23	15.39	17000BFL190		
OPAHH	213658.54N / 1582244.87W	Y	FB	TF	243.84	33.20	AT/ABOVE 8000		
KAENA	212849.75N / 1582613.74W	Y	FB	TF	201.80	08.74	6000B8000		
En Route Transition									
DENNS	222148.24N / 1535250.10W	Y		IF					DENNS.KAENA3
DANYA	220225.00N / 1562154.00W	Y	FB	TF	262.52	139.67			



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STAR (DATA RECORD)

Arrival Name KAENA (RNAV)		Number THREE		STAR Computer Code KAENA.KAENA3		Superseded Number TWO		Dated 10/20/2011	Effective Date 16 May 2024
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
LEEIA	220057.22N / 1563447.09W	Y	FB	TF	263.10	12.06	FL280BFL450		
CIGAN	215357.31N / 1573425.76W	Y	FB	TF	263.02	55.88	AT/ABOVE FL220		
HAWYN	215142.89N / 1575045.94W	Y	FB	TF	261.69	15.36	17000BFL190		
OPAHH	213658.54N / 1582244.87W	Y	FB	TF	243.84	33.20	AT/ABOVE 8000		
KAENA	212849.75N / 1582613.74W	Y	FB	TF	201.80	08.74	6000B8000		
En Route Transition									
ZOULU	251145.00N / 1562516.00W	Y		IF					ZOULU.KAENA3
ZELDO	240654.40N / 1563704.54W	Y	FB	TF	189.49	65.53			
EXCES	223723.11N / 1565140.12W	Y	FB	TF	188.61	90.23	FL280BFL450		
PISKE	220129.04N / 1573757.90W	Y	FB	TF	230.34	55.88	AT/ABOVE FL220		
HAWYN	215142.89N / 1575045.94W	Y	FB	TF	230.76	15.37	17000BFL190		
OPAHH	213658.54N / 1582244.87W	Y	FB	TF	243.84	33.20	AT/ABOVE 8000		
KAENA	212849.75N / 1582613.74W	Y	FB	TF	201.80	08.74	6000B8000		
Runway Transition									
KAENA	212849.75N / 1582613.74W	Y		IF			6000B8000		
SELIC	211930.08N / 1581311.02W	Y	FB	TF	127.32	15.32	AT/ABOVE 4000	AT 220K	
PHNL:RWY 8L									