

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION**  
**GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation.  
 Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
DUUKE	THREE	DUUKE3.DUUKE	TWO	04/08/2010	06 FEB 2014

**TYPE:** RNAV SID

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 19R: CLIMB HEADING 193.92 TO INTERCEPT COURSE 175.10 TO DUUKE, THEN ON DEPICTED ROUTE TO PIGGN, THENCE ...

... VIA (TRANSITION). MAINTAIN ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
IMPERIAL	DUUKE3.IPL	PIGGN	SEPPL	TRACK 087.23	5.11	6000	6000	
		SEPPL	RORBE	TRACK 108.67	12.92	6000	5800	
		RORBE	PILLO	TRACK 124.97	53.80	8800	8800	
		PILLO	IPL VORTAC	TRACK 077.26	48.59	8800	8400	
THERMAL	DUUKE3.TRM	PIGGN	TRM VORTAC	TRACK 073.32	66.36	10000	10000	

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

TAKEOFF MINIMUMS: RWY 01L/R AND 19L NA - ATC. RWY 19R, STANDARD WITH MINIMUM CLIMB OF 365' PER NM TO 540'.

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: RNAV 1

NOTE: RADAR REQUIRED

NOTE: TURBOJET AND TURBOPROP AIRCRAFT ONLY

NOTE: AIRCRAFT MAY BE RADAR VECTORED TO DANAH OR PIGGN.

**TAKEOFF OBSTACLES NOTES:**

NOTE: RWY 19R, WSK ON HGR 536 FEET FROM DER 605 FEET LEFT OF CENTERLINE, 44 FEET AGL/92 FEET MSL MULTIPLE TREES BEGINNING 289 FEET FROM DER, 500 FEET RIGHT OF CENTERLINE, UP TO 52 FEET AGL/108 FEET MSL. LIGHT POLES BEGINNING 204 FEET FROM DER, 400 FEET RIGHT OF CENTERLINE, UP TO 35 FEET AGL/85 FEET MSL. TREE 1574 FEET FROM DER, 765 FEET LEFT OF CENTERLINE, 59 FEET AGL/113 FEET MSL.

**CONTROLLING OBSTACLES:**

**LOST COMMUNICATIONS PROCEDURES:**



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DUUKÉ	THREE	DUUKÉ3.DUUKÉ	TWO	04/08/2010	06 FEB 2014

**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT; SAT  
REFERENCE MAG VAR: KSNA 14E EPOCH YR:1990

**AIRPORTS SERVED:**

JOHN WAYNE AIRPORT-ORANGE COUNTY

SANTA ANA, CA

**COMMUNICATIONS:**

ATIS, CLNC DEL, GND CON (EAST) (WEST), SOCAL DEP CON

**FIXES AND/OR NAVAIDS:**

HONZZ, DANAH

**REMARKS:**

INSTRUCTED TO TREAT THIS UPDATE AS A MINOR AMENDMENT, DID NOT REBUILD PROCEDURE, DID NOT CREATE NEW MAPS, TABLE TOP FLIGHT INSPECTION REQUESTED.



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**CHANGES:**

1. REMOVED ALL REFERENCES OF (ATC).

**REASONS:**

1. NOT AUTHORIZED IAW WITH CURRENT CRITERIA.



**DEPARTURE (DATA RECORD)**

DP Name		Number	DP Computer Code				Superseded Number		Dated	Effective Date
DUUKE		THREE	DUUKE3.DUUKE				TWO		04/08/2010	06 FEB 2014
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW19R (AER)	334053.93N/1175154.21W	N	-	-	-	-			MINIMUM CLIMB OF 365' PER NM TO 540' VI/CF PERMITTED (DO NOT CHART DIST)	
		-	-	VI	207.92	2.27				
DUUKE	333418.26N/1175403.16W	Y	FB	CF	189.10	4.64	1400B5000			
HONZZ	332900.00N/1174900.00W	Y	FB	TF	141.39	6.77				
DANAH	332851.62N/1174154.15W	Y	FB	TF	091.31	5.94				
PIGGN	333500.00N/1172900.00W	Y	FB	TF	060.34	12.40				
PIGGN	333500.00N/1172900.00W	Y	-	IF	-	-			DUUKE3.IPL	
SEPPL	333400.00N/1172300.00W	Y	FB	TF	101.23	5.11				
RORBE	332700.00N/1171000.00W	Y	FB	TF	122.67	12.92				
PILLO	324613.39N/1162806.86W	Y	FB	TF	138.97	53.80				
IPL VORTAC	324455.92N/1153030.90W	Y	FB	TF	091.26	48.59				
PIGGN	333500.00N/1172900.00W	Y	-	IF	-	-			DUUKE3.TRM	
TRM VORTAC	333741.14N/1160936.71W	Y	FB	TF	087.32	66.36				

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[illegible]

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## DEPARTURE (DATA RECORD)

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ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW19R		010		VI		FB		193.9 ( )			
	RW19R	DUUKE	020		CF		FB	1.0	175.1 ( )	004.6	BT 0500001400	
	RW19R	HONZZ	030		TF		FB	1.0				
	RW19R	DANAH	040		TF		FB	1.0				
	RW19R	PIGGN	050		TF		FB	1.0				
	IPL	PIGGN	010		IF		FB					
	IPL	SEPPL	020		TF		FB	1.0				
	IPL	RORBE	030		TF		FB	1.0				
	IPL	PILLO	040		TF		FB	1.0				
	IPL	IPL	050		TF		FB	1.0				
	TRM	PIGGN	010		IF		FB					
	TRM	TRM	020		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ELB	N334033.71	W1174351.90	N3340.562	W11743.865
	IPL	N324455.92	W1153030.90	N3244.932	W11530.515
	TRM	N333741.14	W1160936.71	N3337.686	W11609.612
	DANAH	N332851.62	W1174154.15	N3328.860	W11741.903
	PIGGN	N333500.00	W1172900.00	N3335.000	W11729.000
	PILLO	N324613.39	W1162806.86	N3246.223	W11628.114
	RORBE	N332700.00	W1171000.00	N3327.000	W11710.000
	DUUKE	N333418.26	W1175403.16	N3334.304	W11754.053
	HONZZ	N332900.00	W1174900.00	N3329.000	W11749.000
	SEPPL	N333400.00	W1172300.00	N3334.000	W11723.000
	RW19R	N334053.93	W1175154.21	N3340.899	W11751.904

RUNWAY DATA	THRESHOLD	
RWY	ELEVATION	TCH
RW19R	00042	51

QUALITY  
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CHECKED