

US DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) - STANDARD  
INSTRUMENT APPROACH PROCEDURE  
FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
RUUTH (IAF)	KAHOE (FB)	255.29 / 18.43	2100	LPV: DA LNAV/VNAV: DA LNAV: RW27  CLIMB TO 2000 DIRECT BATRE AND VIA TRACK 272.89 TO ELUDE AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD W, RT, 090.65 INBOUND. CHART FAS OBST: 229 ANT 394135N/0753427W CHART 485 STACK 394136N/0752909W. DISTANCE TO THLD FROM 354 HAT: 0.87 NM. WAAS CHANNEL # 53515 REFERENCE PATH ID: W27A
OOD VORTAC (IAF)	KAHOE (FB)	342.12 / 5.78	2100	
KAHOE (IF)	GUSTE (FB)	267.90 / 6.10	1800	

- PT NA SIDE OF COURSE OUTBOUND        FT WITHIN        MILES OF        (IAF)
- PROFILE STARTS AT KAHOE
- FAC: 267.82 FAF: GUSTE DIST FAF TO MAP: 4.98 THLD: 4.98
- MIN. ALT: KAHOE 2100, GUSTE 1800, JEKVO/2.20 NM TO RW27 860\*
- DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:
- MIN GS INCPT: 1800 GS ALT AT: GUSTE OM:        MM:        IM:
- GS ANGLE: 3.10 TCH: 68.0 34:1 IS NOT CLEAR
- MSA FROM: RW27 2600

MAG VAR: 10W

EPOCH YEAR: 1980

MINIMUMS

TAKEOFF:		STANDARD	X	SEE FAA FORM 8260-15A FOR THIS AIRPORT			ALTERNATE: N A			STANDARD @						
CATEGORY =====>		A			B			C			D			E		
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA		426	1 1/4	354	426	1 1/4	354	426	1 1/4	354	426	1 1/4	354			
LNAV/VNAV DA		516	1 1/2	444	516	1 1/2	444	516	1 1/2	444	516	1 1/2	444			
LNAV MDA		480	1	408	480	1	408	480	1 1/4	408	480	1 1/4	408			
CIRCLING		540	1	460	540	1	460	600	1 1/2	520	640	2	560			

NOTES:  
 CHART NOTE: BARO-VNAV NA WHEN USING PHILADELPHIA INTL ALTIMETER SETTING.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 39C (102F).  
 CHART NOTE: DME/DME RNP-0.3 NA.  
 CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.  
 SEE 8260-10

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE <b>WILMINGTON, DE</b>	ELEVATION: 80 TDZE: 72 AIRPORT NAME: <b>NEW CASTLE</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMD NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 27, ORIG 22 OCT 2009</b>	SUP: AMD: <b>NONE</b> DATED
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QUALITY  
2  
CHECKED

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**NOTES CONT.****CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RUUTH VIA V123-157 NORTHEAST BOUND.****CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.****\*LNAV ONLY****CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OOD VORTAC AIRWAY RADIALS 290 CW 336.****CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PHILADELPHIA INTL ALTIMETER SETTING:****INCREASE LPV DA TO 480, LNAV/VNAV DA TO 570, AND ALL MDA 60 FT; INCREASE LNAV/VNAV ALL CATS AND****LNAV CAT D VISIBILITY 1/4 MILE.**

QUALITY  
2

CITY AND STATE WILMINGTON, DE	ELEVATION: 80 TDZE: 72 AIRPORT NAME: NEW CASTLE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, ORIG 22 OCT 2009	SUP:
				AMDT: NONE
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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KILG
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	394056.2950N
LTP/FTP LONGITUDE	0753543.1845W
LTP/FTP ELLIPSOIDAL HEIGHT	-00112
FPAP LATITUDE	394037.3600N
FPAP LONGITUDE	0753735.9500W
THRESHOLD CROSSING HEIGHT (TCH)	00068.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0536
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
<u>CRC REMAINDER</u>	EE0AE2B5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00218
FPAP ORTHOMETRIC HEIGHT	+00218

CITY AND STATE  
WILMINGTON, DE

ELEVATION: 80 TDZE: 72  
AIRPORT NAME:  
NEW CASTLE

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 27, ORIG  
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SUP:  
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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KILGK6FR27	AOD	01000D	K6D 0V	A	IF					18000		A JS	
SUSAP KILGK6FR27	AOD	020KAHOEK6EA0EE		010TF		34210058		+ 02100				A JS	
SUSAP KILGK6FR27	ARUUTH	010RUUTHK6EA0E	A	IF						18000		A JS	
SUSAP KILGK6FR27	ARUUTH	020KAHOEK6EA0EE		010TF		25530184		+ 02100				A JS	
SUSAP KILGK6FR27	R	010KAHOEK6EA0E	I	IF				+ 02100	18000			A JS	
SUSAP KILGK6FR27	R	020GUSTEK6EA1E	F	051TF		26790061		+ 01800			RW27	K6PGA JS	
SUSAP KILGK6FR27	R	020GUSTEK6EA2WALPV			ALNAV/VNAV ALNAV							JS	
SUSAP KILGK6FR27	R	021JEKVOK6EA0E	S	031TF		26780028		V 0086000869		-310		A JS	
SUSAP KILGK6FR27	R	030RW27 K6PGOGY	M	031TF		26780022		00140		-310		A JS	
SUSAP KILGK6FR27	R	040BATREK6EA0E	M	010DP								A JS	
SUSAP KILGK6FR27	R	050ELUDEK6EA0EY		010TF		2729		+ 02000				A JS	
SUSAP KILGK6FR27	R	060ELUDEK6EA0EE		R020HM		09070040		+ 02000				A JS	

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1  
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SUSAP KILGK6GRW27 0072752678 N39405630W075354318+0100 -0011200072000068150R

SUSAP	KILGK6PR27	RW27	001	0000W27A0N3940562950W07535431845-001120310N3940373600W07537359500106750536000680F400500EE0AE2B5
SUSAP	KILGK6PR27	RW27	002E	+00218+00218LPV 53515

SUSAP KILGK6SRW27 K6PG	0	18018002625	M
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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	OOD	OOD	010	IAF	IF		FB				
	OOD	KAHOE	020		TF		FB	1.0	342.1 (332T)	005.8	02100
	RUUTH	RUUTH	010	IAF	IF		FB				
	RUUTH	KAHOE	020		TF		FB	1.0	255.3 (245T)	018.4	02100
		KAHOE	010	FACF	IF		FB				02100
		GUSTE	020	PAF	TF		FB	0.5	267.9 (258T)	006.1	01800
		JEKVO	021	SDF	TF		FB	0.3	267.8 (258T)	002.8	0086000869
		RW27	030	MAP	TF		FO	0.3	267.8 (258T)	002.2	00140

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	BATRE	040		DF		FB	1.0			
	ELUDE	050		TF		FO	1.0	272.9 (263T)		02000
	ELUDE	060		HM	R	FO	2.0	090.7 (081T)	004.0	02000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OOD	N393809.71	W0751610.88	N3938.162	W07518.181
	BATRE	N393938.97	W0754322.31	N3939.650	W07543.372
	ELUDE	N393911.28	W0754808.43	N3939.188	W07548.141
	GUSTE	N394159.56	W0752924.96	N3941.993	W07529.416
	JEKVO	N394124.30	W0753256.08	N3941.405	W07532.935
	KAHOE	N394316.62	W0752141.21	N3943.277	W07521.687
	RUUTH	N395101.24	W0745959.17	N3951.021	W07459.986
	RW27	N394056.30	W0753543.18	N3940.938	W07535.720

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	00072	68

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