

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> KPHL	<u>PROCEDURE NAME</u> ILS OR LOC RWY 9L ILS RWY 9L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 5	<u>CITY</u> PHILADELPHIA	<u>STATE</u> PA		
<u>AIRPORT ELEVATION</u> 36	<u>TDZE</u> 13	<u>SUPERSEDED</u> ILS OR LOC RWY 9L	<u>ORIGINAL/AMENDMENT</u> 4E	<u>DATED</u> 03/25/2021	<u>MAG VAR</u> 12W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-VII	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 24 MARCH 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
MXE VORTAC	IAF	QWEST INT/16.23 DME					151.05	8.39	4000
DQO VORTAC	IAF	QWEST INT/16.23 DME					025.93	8.07	4000
QWEST INT/16.23 DME	IF	OBEKE INT/12.35 DME					087.47	3.88 (I-VII)	3000
OBEKE INT/12.35 DME		ANNET INT/8.12 DME					087.47	4.23 (I-VII)	2100

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 6.39 NM AFTER ANNET INT/8.12 DME OR AT 1.73 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT OOD VORTAC AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DQO VORTAC AND HOLD.

**PROFILE:**

1. PT      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF**      (IAF)
2. PROFILE STARTS AT QWEST
3. **FAC:** 087.47                      **FAF:** ANNET INT/8.12 DME                      **DIST FAF TO MAP:** 6.39                      **DIST FAF TO THLD:** 6.39
4. **MIN ALT:** QWEST INT/16.23 DME 4000, OBEKE INT/12.35 DME 3000, ANNET INT/8.12 DME 2100, LANDI INT/3.93 DME 760
5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **GS ANT:** 1050
6. **MIN GS INCPT:** 2100                      **GS ALT AT PFAF:** ANNET INT/8.12 DME 2100                      **OM:**                      **MM:**                      **IM:**
7. **GP ANGLE:** 3.00                      **34:1:**                      **20:1:**                      **TCH:** 53.2
8. **MSA FROM:** OOD VORTAC 2600



**EQUIPMENT REQUIREMENTS NOTES:**

**NOTES:**

SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 9L: CAT A, B, C, D, RA 93, RVR 1200, HAT 100, DA 113 MSL.  
 CHART NOTE: ## RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.  
 SA CAT II CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 09L CAT C/D VISIBILITY TO 2 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD SW, LT, 032.28 INBOUND.  
 CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E DQO VORTAC, LT, 248.00 INBOUND.  
 CHART FAS OBST: 184 TANK (42-001460) 395148N/0751733W.  
 CHART VDP AT 2.90 DME  
 DISTANCE VDP TO THLD 1.17 NM.  
 CHART IN PLANVIEW: DQO VORTAC.  
 CHART CIRCLING ICON.

**MINIMUMS:**

**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT**

**ALTERNATE:** NA  ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/4

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b>FINAL TYPE</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
S-ILS 9L##	213	2400	200	213	2400	200	213	2400	200	213	2400	200			
S-LOC 9L	760	2400	747	760	4000	747	760	1 3/4	747	760	1 3/4	747			
CIRCLING	760	1	724	760	1 1/4	724	760	2	724	760	2 1/4	724			
LANDI FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-LOC 9L	440	2400	427	440	2400	427	440	4000	427	440	4000	427			
CIRCLING	540	1	504	600	1	564	620	1 1/2	584	720	2 1/4	684			

**CHANGES - REASONS**

- ADDED SA CAT II LINE OF MINIMA AND ASSOCIATED NOTES - PER FPT/AIRPORT REQUEST.
- TERMINAL ROUTE OBEKE DISTANCE CHANGED FROM 4.36 TO 4.23 FAF (ANNET) RELOCATED.
- DISTANCE FAF TO MAP/THLD CHANGED FROM 6.26 TO 6.39 - FAF (ANNET) RELOCATED.
- TCH CHANGED FROM 57.8 TO 53.2 - DESIGN TCH USED.
- INCREASED S-LOC 9L CAT B VISIBILITY FROM RVR 2400 TO RVR 4000 - CHART CORRECTION.
- LOWERED S-LOC 9L CAT D VISIBILITY FROM 2 TO 1 3/4 - CHANGE TO TERPS TABLE 3-3-1.
- LOWERED CIRCLING CAT C VISIBILITY FROM 2 1/4 TO 2, CAT D FROM 2 1/2 TO 2 1/4 - CHANGE TO TERPS TABLE 3-3-1 REDUCING NO-LIGHT VALUES.
- LOWERED LANDI FIX MINIMUMS S-LOC 9L CAT D VISIBILITY FROM RVR 5000 TO RVR 4000 - CHANGE TO TERPS TABLE 3-3-1.
- CHANGED INOP NOTE FROM FOR INOPERATIVE ALS, INCREASE S-LOC 09L CAT C VISIBILITY TO 2 SM TO FOR INOPERATIVE ALS, INCREASE S-LOC 09L CAT C/D VISIBILITY TO 2 SM - CAT D VISIBILITY LOWERED TO 1 3/4.
- VDP ADDED - ALLOWED BY CRITERIA.
- CHANGED ALTERNATE MINIMUMS FROM ILS STANDARD; LOC STANDARD EXCEPT CAT C 800-2 1/4, CAT D 800-2 1/2 TO ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/4 - CAT C/D CIRCLING VISIBILITIES LOWERED.



**AIRPORT ID**  
KPHL

**PROCEDURE NAME**  
ILS OR LOC RWY 9L  
ILS RWY 9L (SA CAT II)

**ORIGINAL/AMENDMENT**  
5

**CITY**  
PHILADELPHIA

**STATE**  
PA

**COORDINATED WITH:**

**A4A**    **ALPA**    **AOPA**    **APA**    **HAI**    **NBAA**

**OTHER:** ZDC, PHL APP CON, AMGR

**FLIGHT CHECKED BY**

JORGE A MALCUN

*Digitally signed by*

**JON DENTON**

Jan 19, 2022

**OFFICE**

FPO

**DATE**

01/12/2022

**DEVELOPED BY**

RICHARD K. CLARK JR.

*Digitally signed by*

**RICHARD K CLARK-JR**

Dec 20, 2021

**OFFICE**

AJV-A432

**DATE**

09/29/2021

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*

**JON DENTON**

Jan 19, 2022

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER

