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.

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1252	1251	ILS OR LOC RWY 28	29D	11/03/2022	9W	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-AGC			ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GUGTE/RADAR	IF/IAF	HULDO INT					280.90 (I-AGC)	6.34	2500

MISSED APPROACH

MAP:

ILS: DA
LOC: 3.77 NM AFTER HULDO INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT AGC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 3000 ON HEADING 280.90 FOR RADAR VECTORS.

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. PROFILE STARTS AT GUGTE/RADAR
3. **FAC:** 280.90 **FAF:** HULDO INT **DIST FAF TO MAP:** 3.77 **DIST FAF TO THLD:** 3.77
4. **MIN ALT:** GUGTE/RADAR 3000, HULDO INT 2500
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 960
6. **MIN GS INCPT:** 2500 **GS ALT AT PFAF:** HULDO INT 2500 **OM:** **MM:** **IM:**
7. **GS ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 51.0
8. **MSA FROM:** AGC VOR/DME 090-180 3800, 180-090 3100

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED.

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1900.
CHART NOTE: CIRCLING RWY 13 NA AT NIGHT.
CHART PLANVIEW NOTE: LOC OFFSET 1.98 DEGREES.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC CATS C AND D VISIBILITY TO RVR 6000.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 28.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 056.00 INBOUND.
CHART FAS OBST: 1353 TREE (42-062755) 402121N/0795415W.
FAC CROSSES RWY C/L EXTENDED 2592 FT FROM THLD.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT C, D 800-2 1/4, NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 28	1501	4000	250	1501	4000	250	1501	4000	250	1501	4000	250			
S-LOC 28	1660	4000	409	1660	4000	409	1660	5000	409	1660	5000	409			
CIRCLING	1720	1	468	1720	1	468	1980	2	728	1980	2 1/4	728			

CHANGES - REASONS

1. CHANGED CHART NOTE FROM “FOR INOPERATIVE MALSR, INCREASE S-LOC CATS C AND D VISIBILITY TO RVR 6000” TO “FOR INOPERATIVE ALS, INCREASE S-LOC CATS C AND D VISIBILITY TO RVR 6000” - RWY 28 LIGHTING TYPE CHANGED FROM MALSR TO MALS PER FPT CHECKLIST.
2. ADDITIONAL DATA UPDATE: CHANGED CHART FAS OBST FROM “1352 TREE 402123N/0795415W” TO “1353 TREE (42-062755) 402121N/0795415W” - NEW SURVEY DATA UPDATE.
3. ADDITIONAL DATA UPDATE: REMOVED CHART: 1510 TOWER 402151 N/0794845W - DOCUMENT NEW 7:1 AAO OBSTACLE AT THE BACK OF -9 PER .19J 8-6-11E AND MEMO.
4. S-ILS MINS UPDATE: CHANGED S-ILS VIS FROM 2400 TO 4000 - RWY 28 MALSR IS NOW A MALS PER FPT CHECKLIST.
5. S-LOC MINS UPDATE: CHANGED S-LOC CAT A/B VIS FROM 2400 TO 4000 AND S-LOC CAT C/D VIS FROM 4000 TO 5000 - RWY 28 MALSR IS NOW A MALS PER FPT CHECKLIST.
6. ADDED CHART NOTE “AUTOPILOT COUPLED APPROACH NA BELOW 1900” - NOTAM 4/1220 RESOLUTION.
7. MAP UPDATE: CHANGED LOC FROM "3.76 MILES AFTER HULDO INT" TO "3.77 NM AFTER HULCO INT" - MAP RECALCULATION UPDATE PER CURRENT TARGETS RESULTS.
8. ALTERNATE MA INSTRUCTIONS UPDATE: CHANGED "CLIMB TO 3000 ON HEADING 280.90 FOR RADAR VECTORS (RADAR REQUIRED)" TO "CLIMB TO 3000 ON HEADING 280.90 FOR RADAR VECTORS - REMOVED RADAR REQUIRED. ADDED TO EQUIPMENT REQUIREMENTS NOTES.
9. ADDED "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 28" - PER 8260.19J 8-6-12O(3)(A).

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB, PIT APP CON, AGC ATCT, AGC AMGR.

FLIGHT CHECKED BY		OFFICE	DATE
MICHAEL G CAMPBELL	*Digitally signed by* ***ROBERT G HAMILTON*** Feb 25, 2025	AJF	02/12/2025

DEVELOPED BY		OFFICE	DATE
KWEKU DONKOR	*Digitally signed by* ***KWEKU DONKOR*** Dec 26, 2024	AJV-A433	10/02/2024

APPROVED BY		OFFICE	DATE	TITLE
BEV L BORDY	*Digitally signed by* ***ROBERT G HAMILTON*** Feb 25, 2025	AJV-A430		MANAGER

QUALITY 25 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA	1252	I-AGC

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM
GUGTE/RADAR (IF/IAF)

TO
HULDO INT

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	6.34				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (42-002453)	402303.00N/0794134.00W	1686	250	50	4D	500				AT314	2500
TERRAIN	402221.00N/0794134.00W	1310 (1300)								AS1000	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS

FROM
HULDO INT

TO
RW28

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	3.77		DA	250	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC			XP50	1501

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

ILS FINAL XP: HAT RAISED TO 250 FT DUE TO OFFSET ILS COURSE IAW PER 8260.3B, VOL 3, PARA 3.1

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA	1252	I-AGC

FINAL: LOC

FROM	TO
HULDO INT	3.77 NM AFTER HULDO INT

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	3.77		3.77 NM AFTER HULDO INT	409	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (42-062755)	402120.69N/0795415.09W	1353	20	3	1A	250				XP57	1660

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP: TO MATCH OLD MINIMUMS

MISSED APPROACH: ILS

FROM	TO
DA	AGC VOR/DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
					1313

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (42-001656)	401706.07N/0800216.22W	1612	20	3	1A	1000					2700
TERRAIN	401754.00N/0800354.00W	1364 (1400)								AS1500	2900

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA	1252	I-AGC

MISSED APPROACH: LOC

FROM
3.77 NM AFTER HULDO INT

TO
AGC VOR/DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30					

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (42-001656)	401706.07N/0800216.22W	1612	20	3	1A	1000					2700
TERRAIN	401754.00N/0800354.00W	1364 (1400)								AS1500	2900

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH ALTERNATE: ILS

FROM
DA

TO
3000 MSL

RNP	DISTANCE	PAT	MAP	HAT	HMAS
					1313

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TANK (42-000840)	402132.00N/0800115.00W	1430	250	D	4D	1000					2500
TERRAIN	402133.00N/0800106.00W	1299 (1300)								AS1500	2800

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA	1252	I-AGC

MISSED APPROACH ALTERNATE: LOC

FROM
3.77 NM AFTER HULDO INT

TO
3000 MSL

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30					

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TANK (42-000840)	402132.00N/0800115.00W	1430				1000					2500
TERRAIN	402133.00N/0800106.00W	1299 (1300)								AS1500	2800

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING ☐ ALL CATS ☒ CAT A ☒ CAT B ☒ CAT C ☒ CAT D ☐ CAT E ☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
ANTENNA (42-069956)	402201.38N/0795520.18W	1.31	468	1414	20	3	1A	300			1720
CATEGORY B											
ANTENNA (42-069956)	402201.38N/0795520.18W	1.85	468	1414	20	3	1A	300			1720
CATEGORY C											
TOWER (42-002108)	401917.99N/0795239.25W	2.91	728	1663	20	3	1A	300			1980
CATEGORY D											
TOWER (42-002108)	401917.99N/0795239.25W	3.80	728	1663	20	3	1A	300			1980

CIRCLING REMARKS:

MSA

CENTER
AGC VOR/DME

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
090-180	TWR (42-001943)	400211.81N/0792943.34W	129	29.0	2724	20	3	1A	1000			3800
180-090	TOWER (42-000016)	402747.56N/0800015.56W	018	11.2	2049	20	50	1D	1000			3100

MSA REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA	1252	I-AGC

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

ATC WAS NOT INTERESTED IN A NON-RADAR ALTERNATE MISSED APPROACH, THEY REQUESTED IT TO REMAIN STRAIGHT AHEAD TO 3000 WHICH IS BEST SOLUTION TO DECONFLICT TRAFFIC.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

PIT APP CON, AGC TOWER, ALTOONA FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	AGC	24	AGC	0	Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

BACK-UP ALTIMETER SOURCE NOT DEVELOPED DUE TO REDUNDANT WEATHER SOURCES ON FIELD.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
I-AGC	AGC ATCT	TOWER OPEN	1
		TOWER CLOSED	3

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
01H	BSC-G	
RW13 - REIL, HIRL	BSC-G	
RW31 - HIRL, REIL	BSC-G	
RW10 - REIL, HIRL, VASI-4L	PIR-G	ROLL OUT
RW28 - MALS, HIRL	PIR-G	APPROACH

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	1250.0	51.0	1247.6	960		

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☐	2592 FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 13
20:1	
1255 POLE (42-105954) 402126.90N/0795606.10W (9.76)	

QUALITY 25 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
AGC	ILS OR LOC RWY 28	29E	PITTSBURGH	PA	1252	I-AGC

PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

ORDER 8260.3 CHAPTER 2 APPLIED TO 1464 TERRAIN+AAO 402142N/0794857W.

100 FT VEG USED PER FPT CHECKLIST.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	**TO 1000FT POINT**	3.14*
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	0.90
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	271.90
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	1300
DISTANCE FROM	THLD	**TO 1500FT POINT**	9.70*
WIDTH OF	INTERMEDIATE	**SEGMENT AT 1500FT POINT**	7.56
TRUE COURSE OF	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	271.90
HIGH TERRAIN IN	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	1300

THRESHOLD COORDINATES (IF STR-IN)	402115.52N/0795503.99W
ARP COORDINATES	402115.98N/0795544.57W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 28 DISTANCE 0.55 NM
FAF COORDINATES	402108.81N/0795008.64W
FIX NAME COORDINATES	IF GUGTE 402055.55N/0794151.77W

REMARKS

*OFFSET ILS, FICTITIOUS THLD COORDINATES: 402116.41N/0795503.98W.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
KWEKU DONKOR	AJV-A433	10/02/2024	AERONAUTICAL INFORMATION SPECIALIST