

**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.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>Arrival Name</u>	<u>Number</u>	<u>STAR Computer Code</u>	<u>Superseded Number</u>	<u>Dated</u>	<u>Effective Date</u>
HAYNZ (RNAV)	FIVE	GRACE.HAYNZ5	FOUR	06/25/2015	01 FEB 2018

TRANSITION ROUTES:

Transition Name	Transition Computer Code	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitude/Fixes
CLARION	CIP.HAYNZ5	CIP VOR/DME	CIP VOR/DME						
		CIP VOR/DME	EARED	231.00	15.09	13000			
		EARED	GRACE	230.85	08.22	4000			
PHILIPSBURG	PSB.HAYNZ5	PSB VORTAC	PSB VORTAC						
		PSB VORTAC	EARED	281.47	76.77	11000			
		EARED	GRACE	230.85	08.22	4000			
SLATE RUN	SLT.HAYNZ5	SLT VORTAC	SLT VORTAC						
		SLT VORTAC	EARED	256.35	84.23	10000			
		EARED	GRACE	230.85	08.22	4000			

ARRIVAL ROUTE DESCRIPTION:

FROM GRACE ON TRACK 200.58/4.99 TO HAYNZ (MEA 4000), THENCE VIA ASSIGNED RUNWAY TRANSITION.

LANDING RWY 28R/C/L: FROM HAYNZ ON TRACK 200.61/9.67 TO MYRON (MEA 4000), THEN ON HEADING 126.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 32: FROM HAYNZ ON TRACK 200.61/9.67 TO MYRON (MEA 4000), THEN ON TRACK 210.83/11.16 TO COPPE (MEA 4000), THEN ON HEADING 166.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 10R/C/L: FROM HAYNZ ON TRACK 235.85/17.23 TO ROOSA (MEA 4000), THEN ON TRACK 281.74/8.28 TO TERBL (MEA 3000), THEN ON TRACK 282.10/4.76 TO TOWEL (MEA 3000), THEN ON HEADING 282.10. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: EXPECT CLEARANCE TO CROSS GRACE AT 10000 FEET.



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FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT: EARED, HOLD NE, RT, 230.85 INBOUND, 10 NM LEGS, AT 210 KIAS.

COMMUNICATIONS:

PITTSBURGH APP CON: 121.25/337.4, PITTSBURGH ATIS ARR 127.25.

AIRPORTS SERVED:

AIRPORT NAME	CITY	STATE
PITTSBURGH INTL	PITTSBURGH	PA

LOST COMMUNICATIONS PREFERENCES:**REMARKS:**

THIS AMENDMENT DOES NOT QUALIFY AS A PERIODIC REVIEW

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0).
REFERENCE MAGNETIC VARIATION = KPIT 09W/2020

Digitally signed by
BEV L BORDY
Nov 03, 2017

FLIGHT INSPECTED BY:**ORGANIZATION:****DATE:**

FLIGHT INSPECTION NOT REQUIRED, MANAGER ROBERT STUCKERT

AJW-331

Flight Inspected Signature:
Digitally signed by

DEVELOPED BY:

MIKE MELSEN

AJV-5412

05/04/2017

MIKE MELSEN
Jul 01, 2017
Developed By Signature:

APPROVED BY:

GEORGE DAVIS

AJV-5410

Digitally signed by
BEV L BORDY
Approved By Signature: Nov 03, 2017

CHANGES:

1. AMENDED REFERENCE MAG VAR FROM KPIT 08W/1995 TO KPIT 09W/2020.



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HAYNZ (RNAV)	FIVE	GRACE.HAYNZ5	FOUR	06/25/2015	01 FEB 2018

2. ALL MAGNETIC HEADINGS INCREASED BY 1 DEGREE.
3. CORRECTED STAR COMPUTER CODE FROM HAYNZ.HAYNZ TO GRACE.HAYNZ.

REASONS:

1. TO CORRESPOND WITH CAT II/III PROCEDURES.
2. DUE TO MAG VAR UPDATING FROM 8W TO 9W.
3. COMPUTER CODE IS DERIVED FROM FIRST FIX ON THE COMMON ROUTE FOLLOWED BY THE NAME OF THE STAR.



**FEDERAL AVIATION ADMINISTRATION
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STAR (DATA RECORD)**

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
HAYNZ (RNAV)	FIVE	GRACE.HAYNZ5	FOUR	06/25/2015	01 FEB 2018

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
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EN ROUTE TRANSITION

CIP VOR/DME	410846.66N/0792728.71W	Y		IF					CIP.HAYNZ5
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EARED	405732.55N / 0794048.39W	Y	FB	TF	222.0	15.09			
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GRACE	405124.66N / 0794802.12W	Y	FB	TF	221.85	08.22			
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EN ROUTE TRANSITION

PSB VORTAC	405458.53N / 0775933.78W	Y		IF					PSB.HAYNZ5
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EARED	405732.55N / 0794048.39W	Y	FB	TF	272.47	76.77			
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GRACE	405124.66N / 0794802.12W	Y	FB	TF	221.85	08.22			
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EN ROUTE TRANSITION

SLT VORTAC	413045.93N / 0775812.40W	Y		IF					SLT.HAYNZ5
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EARED	405732.55N / 0794048.39W	Y	FB	TF	247.35	84.23			
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GRACE	405124.66N / 0794802.12W	Y	FB	TF	221.85	08.22			
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
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COMMON ROUTE

GRACE	405124.66N / 0794802.12W	Y		IF					GRACE.HAYNZ5
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HAYNZ	404631.24N / 0794921.23W	Y	FB	TF	191.58	04.99			
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RUNWAY TRANSITION

HAYNZ	404631.24N / 0794921.23W	Y		IF					
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MYRON	403702.48N / 0795154.58W	Y	FO	TF	191.61	09.67			
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KPIT: RW28L, 28C, 28R				VM	117.0				
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RUNWAY TRANSITION

HAYNZ	404631.24N / 0794921.23W	Y		IF					
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MYRON	403702.48N / 0795154.58W	Y	FB	TF	191.61	09.67			
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COPPE	402640.39N / 0795720.76W	Y	FO	TF	201.83	11.16			
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KPIT: RW32				VM	157.00				
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
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RUNWAY TRANSITION

HAYNZ	404631.24N / 0794921.23W	Y		IF					
ROOSA	403442.72N / 0800550.86W	Y	FB	TF	226.85	17.23			
TERBL	403506.00N / 0801642.18W	Y	FB	TF	272.74	08.28			
TOWEL	403521.29N / 0802256.55W	Y	FO	TF	273.10	04.76			
KPIT:RWY 10L, 10C, 10R				VM	273.10				