

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.

Arrival Name KRATR (RNAV)	Number THREE	STAR Computer Code KRATR.KRATR3	Superseded Number TWO	Dated 06/25/2015	Effective Date
-------------------------------------	------------------------	---	---------------------------------	----------------------------	----------------

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BUWZO	BUWZO.KRATR3	BUWZO	BUWZO						
			HELNS	164.00	41.73	10000	9600		
			KRATR	185.20	10.75	10000	9600		BETWEEN 10000 AND 13000
HELNS	HELNS.KRATR3	HELNS	HELNS						
			KRATR	185.20	10.75	10000	9600		BETWEEN 10000 AND 13000

ARRIVAL ROUTE DESCRIPTION:

FROM KRATR ON TRACK 184.61/10.19 TO CROSS HYKER BETWEEN 7000 AND 9000.

LANDING RWY 10L/R: FROM HYKER ON TRACK 207.31/15.26 TO CROSS DOUHH AT 5000 AND AT 210 KIAS, THEN ON TRACK 281.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 21: FROM HYKER ON TRACK 185.53/11.81 TO CROSS BATYL AT 7000 AND AT 210 KIAS, THEN ON TRACK 160.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 28L/R: FROM HYKER ON TRACK 154.11/19.69 TO CROSS RALEE AT 6000 AND AT 210 KIAS, THEN ON TRACK 100.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: HELNS TRANSITION, ATC ASSIGNED ONLY.

NOTE: JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL 280 KIAS, IF UNABLE, ADVISE ATC.

FIXES AND/OR HOLDING PATTERNS:

CHART: BTG VORTAC.

CHART: HOLDING AT HELNS: HOLD NE, LT, 185.20 INBOUND, 10 NM LEGS.

CHART: CREAK, BUXOM, NACIY

COMMUNICATIONS:

CHART: PDX APP CON, PDX TWR, PDX GND CON.

AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
PDX	PORTLAND	OR

LOST COMMUNICATIONS PREFERENCES:

MAINTAIN RWY TRANSITION TERMINUS ALTITUDE UNTIL ESTABLISHED ON APPROACH PROCEDURE:

RWY 10L/R: AFTER DOUHH PROCEED TO NNUTT, THEN TURN LEFT TO BUXOM AND PROCEED ON THE ILS OR LOC RWY 10L APPROACH.

RWY 21: AFTER BATYL TURN LEFT TO CREAK AND PROCEED ON THE LOC/DME RWY 21 APPROACH.

RWY 28L/R: AFTER RALEE PROCEED TO SHYNE THEN TURN RIGHT TO NACIY AND PROCEED ON THE ILS OR LOC RWY 28R APPROACH.



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.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
KRATR (RNAV)	THREE	KRATR.KRATR3	TWO	06/25/2015	

REMARKS:

DO NOT CHART MOCA VALUES (WITHIN 500 FT OF MEA VALUES).

LOST COMM: RWY 10L CO IS 1613 MSL AAO, 4541.06N/1225454.00W; RWY 21 CO IS 4151 MSL AAO, 454542.00N/1221442.00W; RWY 28R 1546 MSL AAO, 453109.00N/1221418.00W.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: KPDx 16E/2010

CHART NEXT TO HELNS WP: HELNS MINIMUM HOLDING ALTITUDE 11000.

CHART AT DOUHH TERMINUS: PDX LDG RWY 10L/R.

CHART AT RALEE TERMINUS: PDX LDG RWY 28L/R.

CHART AT BATYL TERMINUS: PDX LDG RWY 21.

FLIGHT INSPECTED BY:

PAUL A GOSDEN

ORGANIZATION:

AJF

DATE:

10/17/2024

Flight Inspected Signature: _____

Digitally signed by
ROBERT G HAMILTON

Oct 22, 2024

DEVELOPED BY:

KWEKU DONKOR

AJV-A433

7/8/2024

Developed By Signature: _____

Digitally signed by

ROBERT G HAMILTON

Oct 22, 2024

APPROVED BY:

BEV BORDY

AJV-A430

Approved By Signature: _____

Digitally signed by

ROBERT G HAMILTON

Oct 22, 2024

CHANGES:

1. LOWERED MEA BUWZO TO HELNS FROM 11000 TO 10000.
2. DELETED ALTITUDE RESTRICTION AT HELNS.
3. ADDED TERMINUS DATA TO ADDITIONAL FLIGHT DATA.
4. ADDED CHART NOTE: HELNS MINIMUM HOLDING ALTITUDE 11000.
5. DELETED SSSUN FROM RUNWAY 28L/R TRANSITION.
6. FIX NNUTT REMOVED FROM RWY 10L/R TRANSITION, FIX RETAINED FOR RWY 10L/R LOST COMM.
7. REMOVED FIX SHYNE FROM RWY 28L/R TRANSITION, FIX RETAINED FOR RWY 28L/R LOST COMM.
8. ADDED AT/BELOW 260 KIAS SPEED RESTRICTION AT KRATR.
9. REMOVED AIRPORT NAME FROM AIRPORTS SERVED SECTION ALONG WITH K IDENT.
10. UPDATED ARRIVAL DESCRIPTIONS FOR ALL RWY TRANSITIONS.
11. REMOVED D-ATIS FROM COMMUNICATIONS BLOCK.
12. UPDATED ALL LOST COMM INSTRUCTIONS.
13. DELETED LIQWD FROM PROCEDURE.
14. DELETED VOODU FROM PROCEDURE.
15. ADDED FIX RALEE TO RWY 28L/R TRANSITION.



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.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
KRATR (RNAV)	THREE	KRATR.KRATR3	TWO	06/25/2015	

- 16. UPDATED TURBOJET NOTES FROM "TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280K. MAINTAIN 280K UNTIL SLOWED BY THE STAR" TO "JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL 280 KIAS, IF UNABLE, ADVISE ATC".
- 17. UPDATED MOCA VALUES ON 17.1.
- 18. REMOVED SEA VORTAC FROM CHART.
- 19. REMOVED RECOMMENDED NAVAID FROM 17.2 REMARKS.

REASONS:

- 1. ATC REQUEST: MATCHES MEA ON SIMILAR HELNS RNAV STAR.
- 2. ATC REQUEST: NO LONGER NEEDED.
- 3. FAAO 8260.19J, 4-5-2. h. (2).
- 4. REQUIRED BY HOLDING PATTERN MOCA.
- 5-7. ATC REQUEST.
- 8. RESOLVES LEG LENGTH FAILURE FOR DECELERATION AND DESCENT BETWEEN KRATR AND HYKER.
- 9. DOCUMENTATION NO LONGER REQUIRED PER FAAO 8260.19J, PARA 4-5-12 g.
- 10. ATC REQUEST.
- 11. IAW FAAO 8260.19J 4-5-12 f.
- 12. ATC REQUEST.
- 13-14. NO LONGER NEEDED PER ATC.
- 15-16. ATC REQUEST.
- 17. UPDATED IAW 8260.3E 2-2-7D.(3).
- 18. NO LONGER REQUIRED PER ATC.
- 19. NO LONGER NEEDED.

08/28/2024 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/08/2024.

- 1. UPDATED CHANGES AND REASONS.

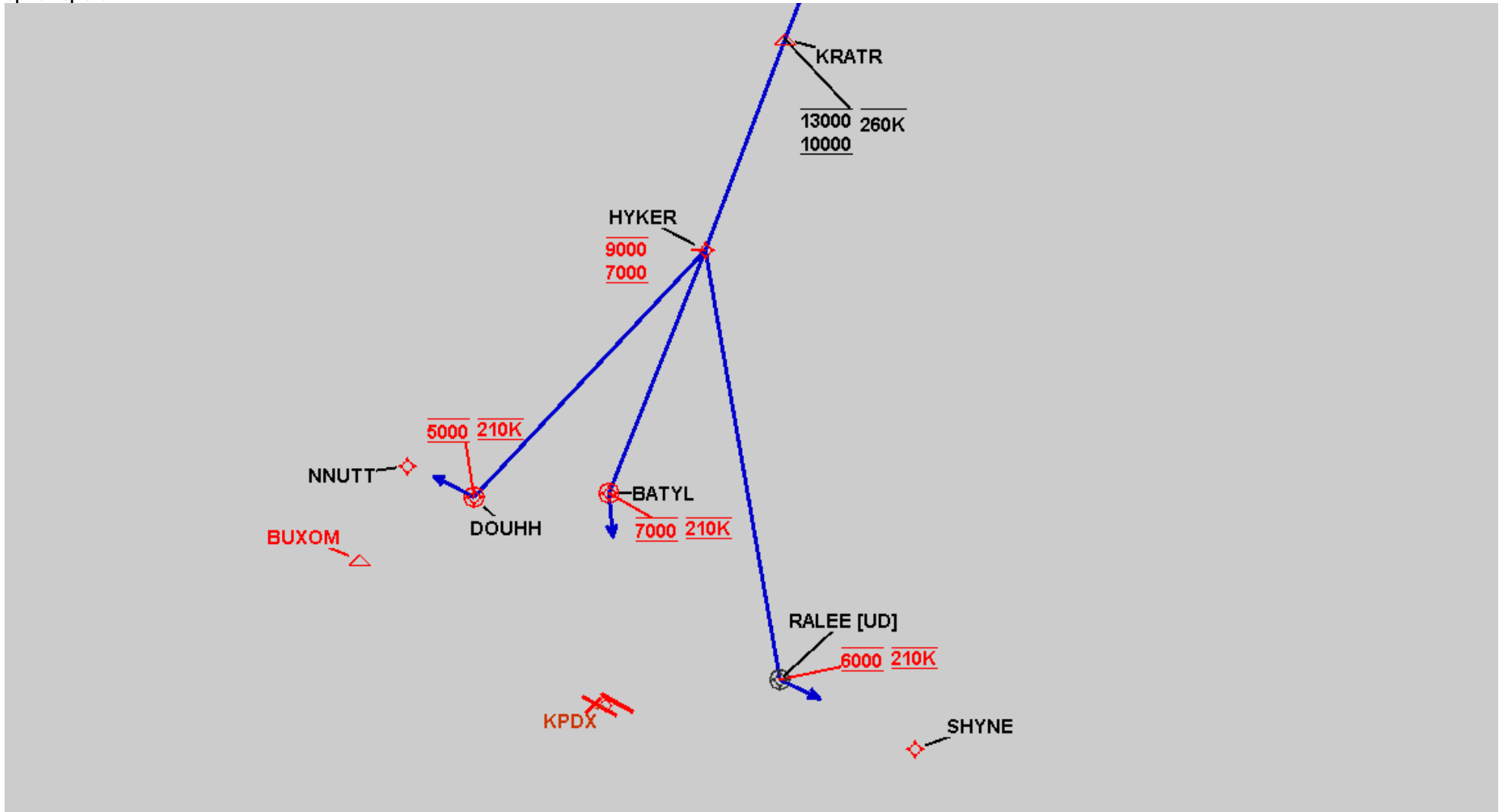


FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

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.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
KRATR (RNAV)	THREE	KRATR.KRATR3	TWO	06/25/2015	

Graphic Depiction 1

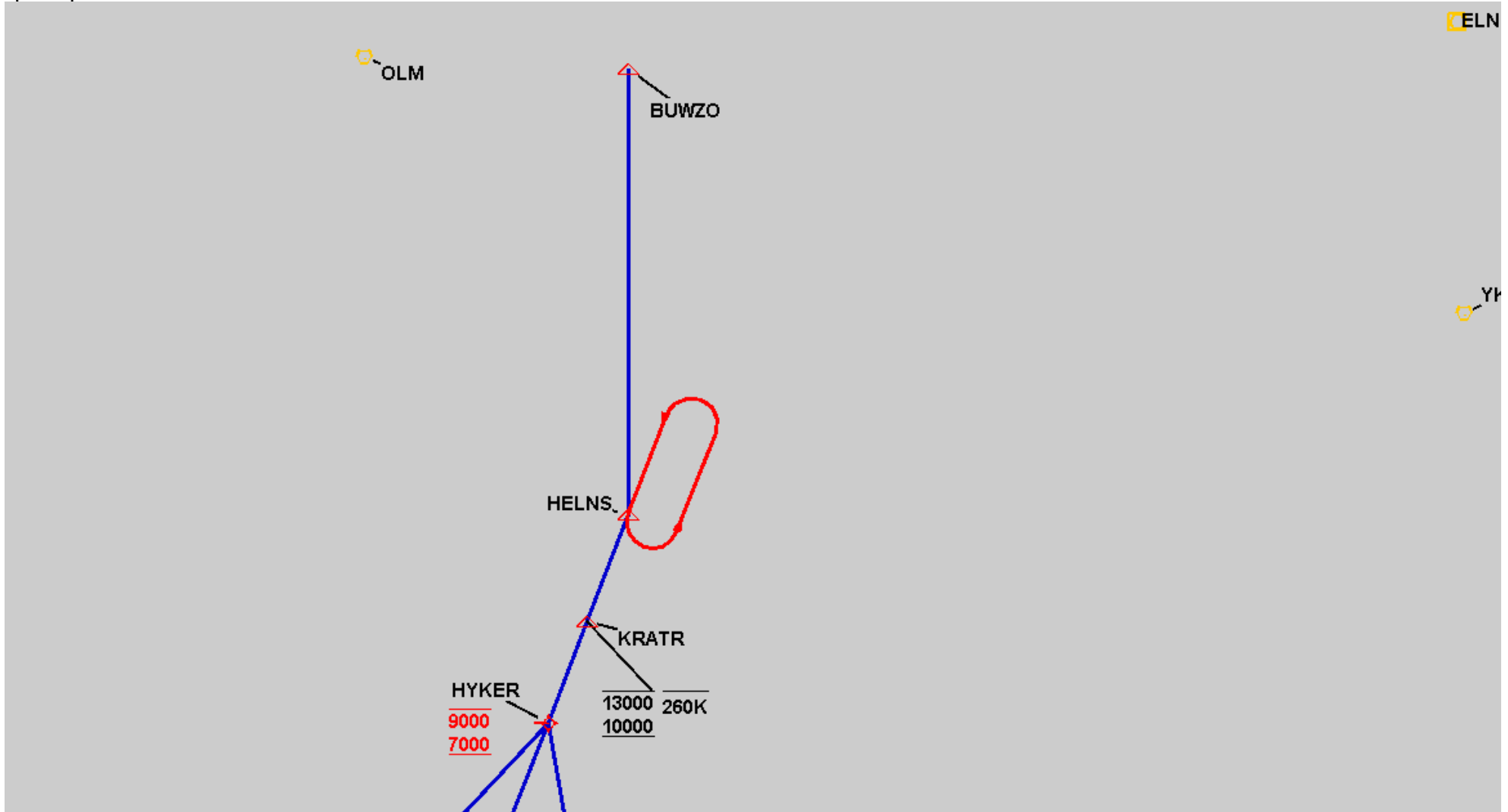


FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

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.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
KRATR (RNAV)	THREE	KRATR.KRATR3	TWO	06/25/2015	

Graphic Depiction 2

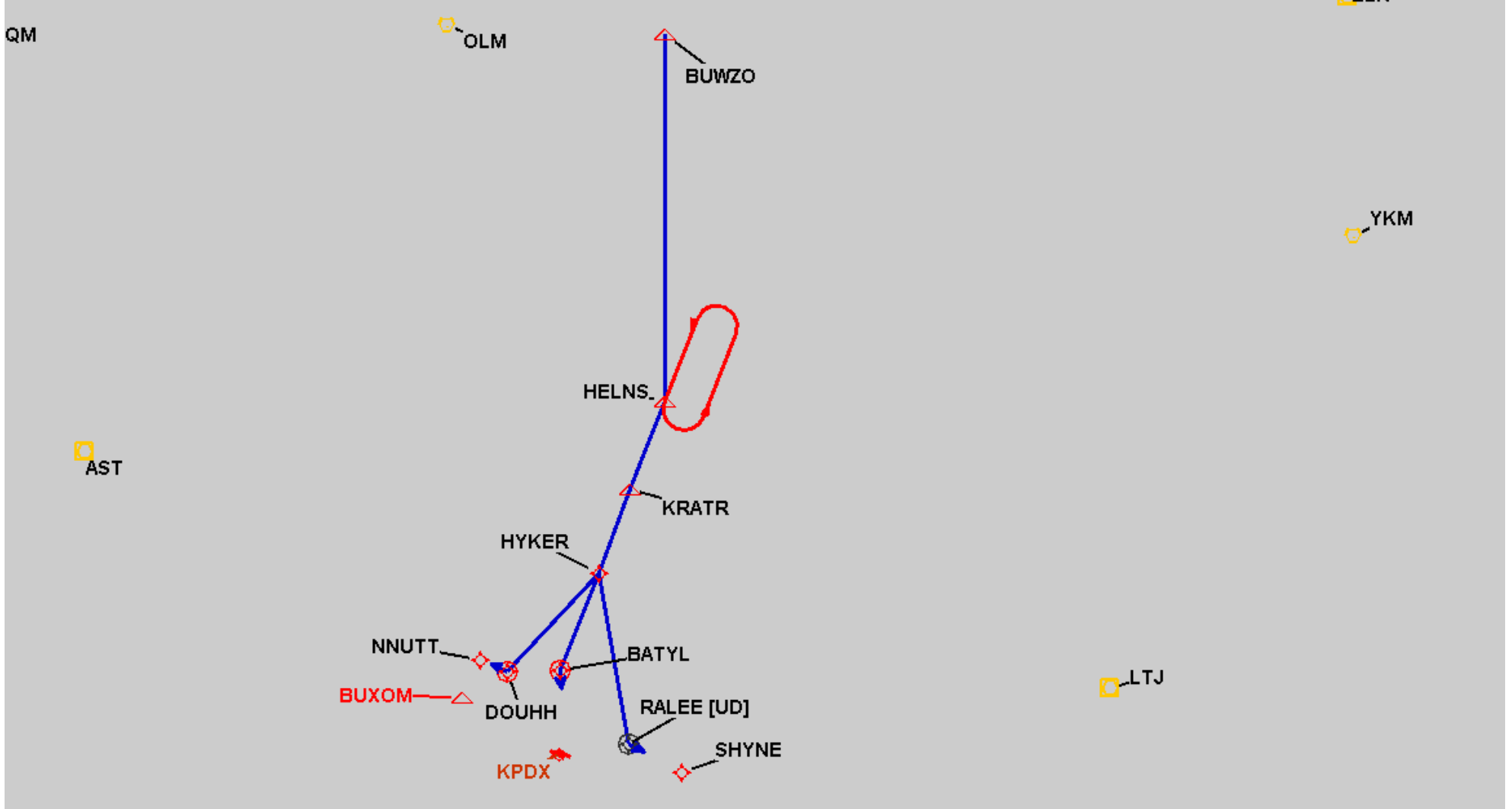


FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

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.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
KRATR (RNAV)	THREE	KRATR.KRATR3	TWO	06/25/2015	

Graphic Depiction 3



QUALITY
 50
 CHECKED

FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STAR (DATA RECORD)

Arrival Name KRATR (RNAV)	Number THREE	STAR Computer Code KRATR.KRATR3		Superseded Number TWO		Dated 06/25/2015	Effective Date		
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
En Route Transition									
BUWZO	465708.19N / 1221834.62W	Y		IF					BUWZO.KRATR3
HELNS	461525.10N / 1221834.58W	Y	FB	TF	180.00	41.73			
KRATR	460523.57N / 1222409.90W	Y	FB	TF	201.20	10.75	10000B13000	AT/BELOW 260K	
En Route Transition									
HELNS	461525.10N / 1221834.58W	Y		IF					HELNS.KRATR3
KRATR	460523.57N / 1222409.90W	Y	FB	TF	201.20	10.75	10000B13000	AT/BELOW 260K	
Common Route									
KRATR	460523.57N / 1222409.90W	Y		IF			10000B13000	AT/BELOW 260K	KRATR.KRATR3
HYKER	455551.24N / 1222918.23W	Y	FB	TF	200.61	10.19	7000B9000		
Runway Transition									
HYKER	455551.24N / 1222918.23W	Y		IF			7000B9000		
DOUHH	454443.96N / 1224415.32W	Y	FO	TF	223.31	15.26	AT 5000	AT 210K	
KPDX:RWY 10L,RWY 10R				FM	297.00				
Runway Transition									
HYKER	455551.24N / 1222918.23W	Y		IF			7000B9000		
BATYL	454452.04N / 1223529.61W	Y	FO	TF	201.53	11.81	AT 7000	AT 210K	
KPDX:RWY 21				FM	176.00				
Runway Transition									
HYKER	455551.24N / 1222918.23W	Y		IF			7000B9000		
RALEE	453627.61N / 1222429.11W	Y	FO	TF	170.11	19.69	AT 6000	AT 210K	
KPDX:RWY 28L,RWY 28R				FM	116.00				

