

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.
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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
SMUKE (RNAV)	FOUR	RACYR.SMUKE4	THREE	07/11/2024	

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
EMBRR	EMBRR.SMUKE4	EMBRR	EMBRR						
			WOOTE	035.20	12.41	10000	2300		
			GAMLE	035.27	08.62	10000	2300		BETWEEN 15000 AND FL190
			RACYR	034.38	10.77	7000	2300		BETWEEN 12000 AND FL190
TERGE	TERGE.SMUKE4	TERGE	TERGE						
			EMBRR	034.63	49.99	13000	2300		
			WOOTE	035.20	12.41	10000	2300		
			GAMLE	035.27	08.62	10000	2300		BETWEEN 15000 AND FL190
			RACYR	034.38	10.77	7000	2300		BETWEEN 12000 AND FL190
			WIDAM						
			PAAAM	085.76	12.43	7000	2300		
			OLIFE	085.98	07.46	7000	2300		BETWEEN FL240 AND FL260
			ATOTE	085.92	40.48	7000	2300		BETWEEN 15000 AND FL190
			RACYR	086.48	14.59	7000	2300		BETWEEN 12000 AND FL190

ARRIVAL ROUTE DESCRIPTION:

FROM RACYR ON TRACK 036.15/10.40 TO CROSS SMUKE BETWEEN 11000 AND 15000 AND AT 270 KIAS, THEN ON TRACK 040.41/10.48 TO FIIRE.

LANDING RWY 5L: FROM FIIRE ON TRACK 035.22/4.74 TO CROSS WESLE BETWEEN 6000 AND 8000 AND AT 230 KIAS, THEN ON TRACK 043.22/5.97 TO CROSS WAAYN AT 5000 AND AT 210 KIAS. EXPECT ASSIGNED INSTRUMENT APPROACH FOR RWY 5L OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 5R: FROM FIIRE ON TRACK 035.22/4.74 TO CROSS WESLE BETWEEN 6000 AND 8000 AND AT 230 KIAS, THEN ON TRACK 050.80/6.37 TO CROSS IUIUUU AT 5000 AND AT 210 KIAS. EXPECT ASSIGNED INSTRUMENT APPROACH FOR RWY 5R OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 14: FROM FIIRE ON TRACK 042.95/2.20 TO CROSS EDIIE AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 042.97/2.19 TO CROSS COCOO AT OR ABOVE 10000, THEN ON TRACK 044.74/11.00 TO CROSS CIRAM AT OR ABOVE 7000 AND AT 230 KIAS, THEN ON TRACK 050.21/5.54 TO CROSS ARIAA AT 6000 AND AT 210 KIAS, THEN ON TRACK 320.34/5.49 TO CROSS WANOB AT 6000 AND AT 210 KIAS, THEN ON TRACK 320.34. EXPECT ASSIGNED INSTRUMENT APPROACH FOR RWY 14 OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 23L: FROM FIIRE ON TRACK 060.39/4.50 TO CROSS CHERZ AT OR ABOVE 11000, THEN ON TRACK 060.44/4.28 TO CROSS TTKAY AT OR ABOVE 10000 AND AT 250 KIAS, THEN ON TRACK 055.89/11.47 TO CROSS EDODE AT OR ABOVE 7000 AND AT 230 KIAS, THEN ON TRACK 059.37/6.05 TO CROSS KNIGT AT 6000 AND AT 210 KIAS, THEN ON TRACK 049.62/4.35 TO CROSS RAMEY AT 6000 AND AT 210 KIAS, THEN ON TRACK 049.62. EXPECT ASSIGNED INSTRUMENT APPROACH FOR RWY 23L OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 23R: FROM FIIRE ON TRACK 032.51/4.50 TO CROSS WOTSN AT OR ABOVE 11000, THEN ON TRACK 032.54/4.81 TO CROSS DUBBX AT OR ABOVE 10000 AND AT 250 KIAS, THEN ON TRACK 037.00/11.47 TO CROSS BLSTR AT OR ABOVE 7000 AND AT 230 KIAS, THEN ON TRACK 033.70/6.10 TO CROSS PETYN AT 6000 AND AT 210 KIAS, THEN ON TRACK 049.75/4.34 TO CROSS BREAK AT 6000 AND AT 210 KIAS, THEN ON TRACK 049.75. EXPECT ASSIGNED INSTRUMENT APPROACH FOR RWY 23R OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 32: FROM FIIRE ON TRACK 042.95/2.20 TO CROSS EDIIE AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 042.97/2.19 TO CROSS COCOO AT OR ABOVE 10000, THEN ON TRACK 044.74/11.00 TO CROSS CIRAM AT OR ABOVE 7000 AND AT 230 KIAS, THEN ON TRACK 050.21/5.54 TO CROSS ARIAA AT 6000 AND AT 210 KIAS, THEN ON TRACK 139.74/5.30 TO CROSS FIISH AT 6000 AND AT 210 KIAS, THEN ON TRACK 139.74. EXPECT ASSIGNED INSTRUMENT APPROACH FOR RWY 32 OR RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

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SMUKE (RNAV)	FOUR	RACYR.SMUKE4	THREE	07/11/2024	

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: EXPECT DESCEND VIA CLEARANCE AND LANDING DIRECTION ASSIGNMENT BY INDIANAPOLIS CENTER. APPROACH WILL ASSIGN LANDING RWY.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT LANDING RWY 23L; SHB DME MUST BE OPERATIONAL.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT LANDING RWY 23R; SHB AND VHP DMES MUST BE OPERATIONAL.

NOTE: IND LANDING SOUTHWEST SELECT RWY 23R TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM INDIANAPOLIS APP CON PRIOR TO SMUKE.

NOTE: IND LANDING NORTHEAST SELECT RWY 5L TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM INDIANAPOLIS APP CON PRIOR TO SMUKE.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT EMBRR: HOLD SW, LT, 034.63 INBOUND, 10 NM LEGS.

CHART HOLDING AT GAMLE: HOLD SW, LT, 035.27 INBOUND, 10 NM LEGS.

CHART HOLDING AT RACYR: HOLD SW, LT, 034.38 INBOUND, 10 NM LEGS.

CHART HOLDING AT ATOTE: HOLD W, LT, 085.92 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

AIRPORTS SERVED:

AIRPORT ID
IND

CITY
INDIANAPOLIS

STATE
IN

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

CRITICAL DME NOTES ARE THE RESULT OF POST FLIGHT INSPECTION FROM LAST AMDT, NOT DME/DME ASSESSMENT.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

ENVIRONMENTAL REVIEW: COMPLETE

NOISE SCREENING: COMPLETE

MAG VAR: IND 05W/2015

CHART AT FIISH TERMINUS: IND LDG RWY 32

CHART AT IIUUU TERMINUS: IND LDG RWY 5R

CHART AT BREAK TERMINUS: IND LDG RWY 23R

CHART AT WANOB TERMINUS: IND LDG RWY 14

CHART AT RAMEY TERMINUS: IND LDG RWY 23L

CHART AT WAAYN TERMINUS: IND LDG RWY 5L

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SMUKE (RNAV)	FOUR	RACYR.SMUKE4	THREE	07/11/2024	

FLIGHT INSPECTED BY:

ORGANIZATION: **DATE:**

Flight Inspected Signature: _____

DEVELOPED BY:

GUY COPELAND

AJV-A421

06/01/2026

Developed By Signature: _____

APPROVED BY:

BEV BORDY

AJV-A4

Approved By Signature: _____

CHANGES:

1. ADDED HOLDING AT ATOTE.
2. COMMON ROUTE: ADDED SPEED RESTRICTION AT RACYR AT 280 KIAS, ADDED RESTRICTIONS AT SMUKE BETWEEN 11000 AND 15000 AND AT 270 KIAS.
3. LANDING RWY 14 AND 32: ADDED SPEED RESTRICTION AT EDIIE AT 250 KIAS, REMOVED PNFLD AND ADDED ARIAA.
4. LANDING RWY 14: REPLACED TERMINUS WONOK WITH WANOB.
5. LANDING RWY 23L: ADDED SPEED RESTRICTION AT TTKAY AT 250 KIAS, MOVED KNIGT 1869 FT SOUTHEAST, MOVED TERMINUS RAMEY 2.16 NM SOUTHWEST.
6. LANDING RWY 23R: ADDED SPEED RESTRICTION AT DUBBX AT 250 KIAS, MOVED PETYN 1754 FT NORTHWEST, REPLACED TERMINUS ZOSAR WITH BREAK.
7. LANDING RWY 32: REPLACED TERMINUS ZASNI WITH FIISH.
8. INCREASED ALL MOCA VALUES.
9. REMOVED K IDENT FROM 17.1 FORM.
10. REMOVED IND APP CON FROM COMMUNICATIONS.

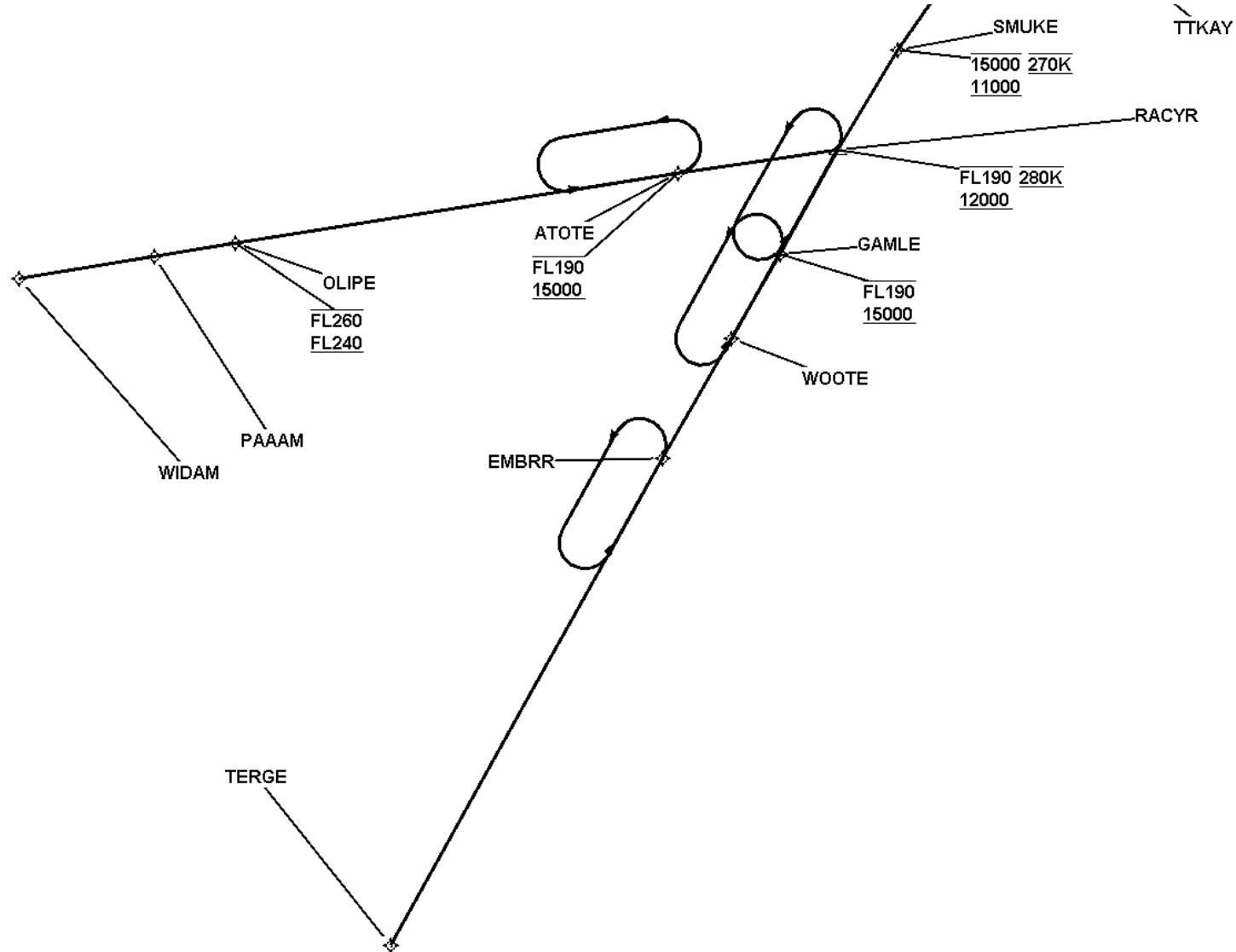
REASONS:

- 1-7. ATC REQUEST.
8. NEW OBSTACLE EVALUATION.
9. IAW CURRENT DOCUMENTATION STANDARDS.
10. APPROACH CONTROL AUTOMATICALLY CHARTED AND DO NOT NEED TO BE DOCUMENTED IN THIS SECTION IAW 8260.19K 4-5-12(F).

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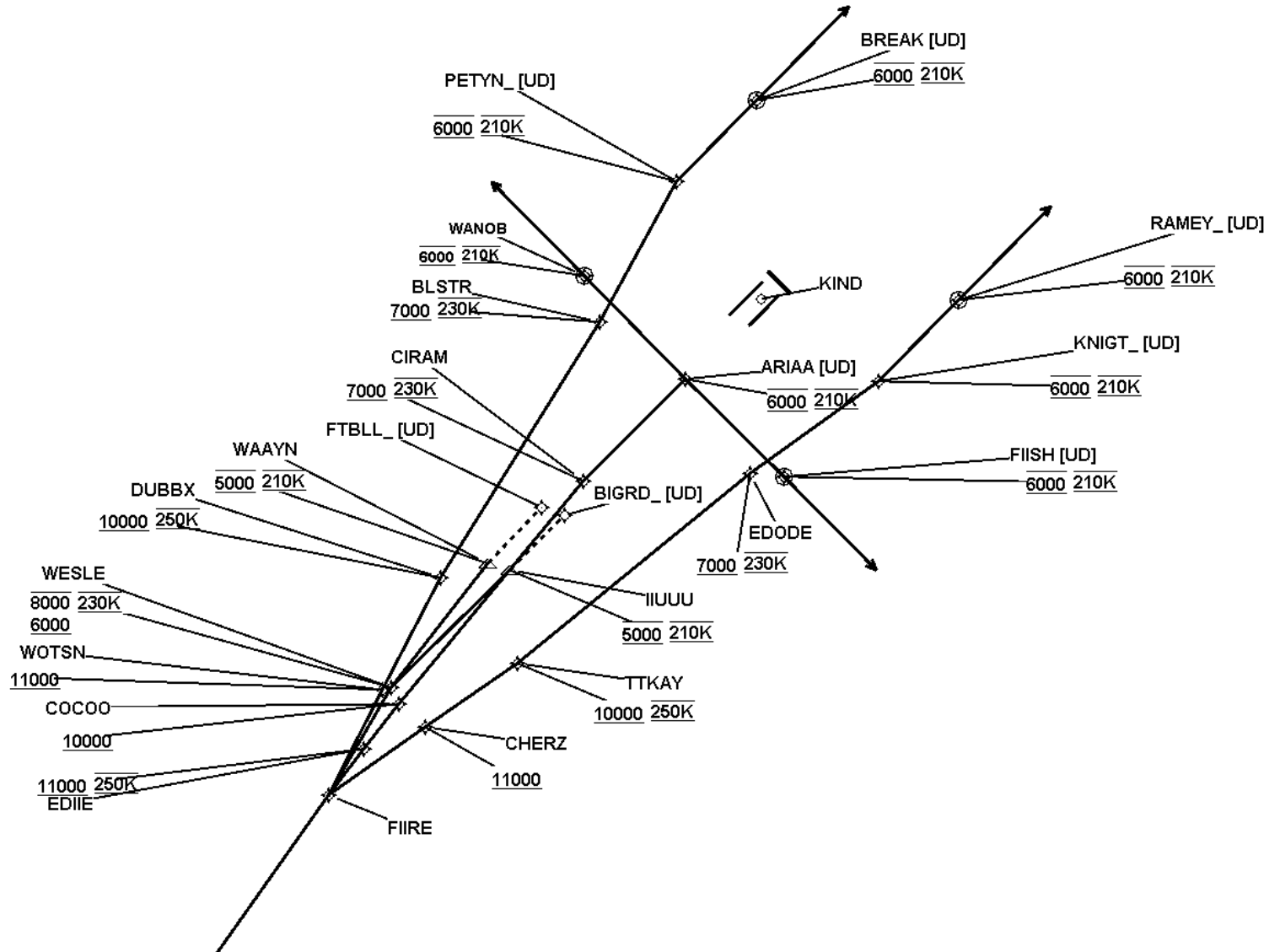
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
SMUKE (RNAV)	FOUR	RACYR.SMUKE4	THREE	07/11/2024	
Graphic Depiction 1					



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
SMUKE (RNAV)	FOUR	RACYR.SMUKE4	THREE	07/11/2024	
Graphic Depiction 2					



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

Arrival Name SMUKE (RNAV)	Number FOUR		STAR Computer Code RACYR.SMUKE4		Superseded Number THREE		Dated 07/11/2024		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									
EMBRR	383908.28N / 0871411.39W	Y		IF					EMBRR.SMUKE4
WOOTE	384952.18N / 0870612.05W	Y	FB	TF	030.20	12.41			
GAMLE	385719.15N / 0870037.91W	Y	FB	TF	030.27	08.62	15000BFL190		
RACYR	390642.57N / 0865350.64W	Y	FB	TF	029.38	10.77	12000BFL190	AT 280K	
En Route Transition									
TERGE	375542.47N / 0874544.19W	Y		IF					TERGE.SMUKE4
EMBRR	383908.28N / 0871411.39W	Y	FB	TF	029.63	49.99			
WOOTE	384952.18N / 0870612.05W	Y	FB	TF	030.20	12.41			
GAMLE	385719.15N / 0870037.91W	Y	FB	TF	030.27	08.62	15000BFL190		
RACYR	390642.57N / 0865350.64W	Y	FB	TF	029.38	10.77	12000BFL190	AT 280K	
En Route Transition									
WIDAM	385513.34N / 0882853.75W	Y		IF					WIDAM.SMUKE4
PAAAM	385712.09N / 0881310.16W	Y	FB	TF	080.76	12.43			
OLIFE	385821.98N / 0880343.09W	Y	FB	TF	080.98	07.46	FL240BFL260		
ATOTE	390434.26N / 0871223.10W	Y	FB	TF	080.92	40.48	15000BFL190		
RACYR	390642.57N / 0865350.64W	Y	FB	TF	081.48	14.59	12000BFL190	AT 280K	
Common Route									
RACYR	390642.57N / 0865350.64W	Y		IF			12000BFL190	AT 280K	RACYR.SMUKE4
SMUKE	391536.90N / 0864654.98W	Y	FB	TF	031.15	10.40	11000B15000	AT 270K	
FIIRE	392409.40N / 0863905.13W	Y	FB	TF	035.41	10.48			
Runway Transition									
FIIRE	392409.40N / 0863905.13W	Y		IF					
WESLE	392815.20N / 0863600.37W	Y	FB	TF	030.22	04.74	6000B8000	AT 230K	



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
WAAYN	393257.00N / 0863113.67W	Y	FB	TF	038.22	05.97	AT 5000	AT 210K	
KIND:RWY 5L									
Runway Transition									
FIIRE	392409.40N / 0863905.13W	Y		IF					
WESLE	392815.20N / 0863600.37W	Y	FB	TF	030.22	04.74	6000B8000	AT 230K	
IIUUU	393241.79N / 0863006.06W	Y	FB	TF	045.80	06.37	AT 5000	AT 210K	
KIND:RWY 5R									
Runway Transition									
FIIRE	392409.40N / 0863905.13W	Y		IF					
EDIIE	392553.56N / 0863720.36W	Y	FB	TF	037.95	02.20	AT/ABOVE 11000	AT 250K	
COCOO	392737.17N / 0863536.05W	Y	FB	TF	037.97	02.19	AT/ABOVE 10000		
CIRAM	393604.77N / 0862630.19W	Y	FB	TF	039.74	11.00	AT/ABOVE 7000	AT 230K	
ARIAA	393959.02N / 0862124.68W	Y	FB	TF	045.21	05.54	AT 6000	AT 210K	
WANOB	394353.49N / 0862624.91W	Y	FO	TF	315.34	05.49	AT 6000	AT 210K	
KIND:RWY 14				FM	315.34				
Runway Transition									
FIIRE	392409.40N / 0863905.13W	Y		IF					
CHERZ	392642.81N / 0863418.28W	Y	FB	TF	055.39	04.50	AT/ABOVE 11000		
TTKAY	392908.48N / 0862945.24W	Y	FB	TF	055.44	04.28	AT/ABOVE 10000	AT 250K	
EDODE	393622.38N / 0861814.30W	Y	FB	TF	050.89	11.47	AT/ABOVE 7000	AT 230K	
KNIGT	393953.76N / 0861152.42W	Y	FB	TF	054.37	06.05	AT 6000	AT 210K	
RAMEY	394259.65N / 0860754.77W	Y	FO	TF	044.62	04.35	AT 6000	AT 210K	
KIND:RWY 23L				FM	044.62				
Runway Transition									
FIIRE	392409.40N / 0863905.13W	Y		IF					
WOTSN	392809.05N / 0863624.10W	Y	FB	TF	027.51	04.50	AT/ABOVE 11000		

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Arrival Name SMUKE (RNAV)		Number FOUR		STAR Computer Code RACYR.SMUKE4		Superseded Number THREE		Dated 07/11/2024	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>
DUBBX	393225.01N / 0863331.72W	Y	FB	TF	027.54	04.81	AT/ABOVE 10000	AT 250K	
BLSTR	394208.88N / 0862539.26W	Y	FB	TF	032.00	11.47	AT/ABOVE 7000	AT 230K	
PETYN	394729.86N / 0862151.42W	Y	FB	TF	028.70	06.10	AT 6000	AT 210K	
BREAK	395035.07N / 0861753.19W	Y	FO	TF	044.75	04.34	AT 6000	AT 210K	
KIND:RWY 23R				FM	044.75				
Runway Transition									
FIIRE	392409.40N / 0863905.13W	Y		IF					
EDIIE	392553.56N / 0863720.36W	Y	FB	TF	037.95	02.20	AT/ABOVE 11000	AT 250K	
COCOO	392737.17N / 0863536.05W	Y	FB	TF	037.97	02.19	AT/ABOVE 10000		
CIRAM	393604.77N / 0862630.19W	Y	FB	TF	039.74	11.00	AT/ABOVE 7000	AT 230K	
ARIAA	393959.02N / 0862124.68W	Y	FB	TF	045.21	05.54	AT 6000	AT 210K	
FIISH	393614.89N / 0861632.42W	Y	FO	TF	134.74	05.30	AT 6000	AT 210K	
KIND:RWY 32				FM	134.74				