

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.  
Distances are in nautical miles (NM). Graphic depictions attached.

Arrival Name DADES (RNAV)	Number NINE	STAR Computer Code DADES.DADES9	Superseded Number EIGHT	Dated 12/02/2021	Effective Date 19 May 2022				
TRANSITION ROUTES:									
This is a corrected copy of the procedure published in NFDD 071. ** See page 5 for details. **									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BAAMF	BAAMF.DADES9	BAAMF	BAAMF						
			CORYY	191.18	30.06	5000	2100		
			CAPOH	182.22	34.96	5000	2100		
			EDISN	182.23	11.00	5000	2100		
			OLENE	179.02	39.97	5000	2100		
			MARVI	184.23	06.01	5000	1800		
			KOKOH	184.03	06.77	5000	1800		
			DADES	184.33	09.79	5000	1800		
BEAUX	BEAUX.DADES9	BEAUX	BEAUX						
			ZINGR	255.42	33.72	10000	2800		AT/ABOVE 10000
			WORAK	252.63	11.29	5000	2800		
			ZOPER	252.53	09.20	5000	2800		
			CAMKO	250.05	13.23	5000	2800		
			ROSTR	249.94	09.40	5000	1800		
			GUURR	261.67	33.14	5000	1800		
			DADES	275.60	16.86	5000	1800		
EDISN	EDISN.DADES9	EDISN	EDISN						
			OLENE	179.02	39.97	5000	2100		
			MARVI	184.23	06.01	5000	1800		
			KOKOH	184.03	06.77	5000	1800		
			DADES	184.33	09.79	5000	1800		
HIBAC	HIBAC.DADES9	HIBAC	HIBAC						
			BEAUX	255.99	22.64	10000	2800		
			ZINGR	255.42	33.72	10000	2800		AT/ABOVE 10000
			WORAK	252.63	11.29	5000	2800		
			ZOPER	252.53	09.20	5000	2800		
			CAMKO	250.05	13.23	5000	2800		

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Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes	
			ROSTR	249.94	09.40	5000	1800			
			GUURR	261.67	33.14	5000	1800			
			DADES	275.60	16.86	5000	1800			
KRVUR	KRVUR.DADES9	KRVUR	KRVUR							
			CORYY	144.40	44.93	5000	2100			
			CAPOH	182.22	34.96	5000	2100			
			EDISN	182.23	11.00	5000	2100			
			OLENE	179.02	39.97	5000	2100			
			MARVI	184.23	06.01	5000	1800			
			KOKOH	184.03	06.77	5000	1800			
			DADES	184.33	09.79	5000	1800			
NICCK	NICCK.DADES9	NICCK	NICCK							
			DRUDJ	179.56	28.50	5000	1900			
			ROSTR	224.05	17.30	5000	1900			
			GUURR	261.67	33.14	5000	1800			
			DADES	275.60	16.86	5000	1800			

ARRIVAL ROUTE DESCRIPTION:

LANDING KTPA RWY 1L/R, 28: FROM DADES ON TRACK 225.20/4.90 TO LZARD, THEN ON TRACK 225.17/8.09 TO LISAF, THEN ON TRACK 186.23/12.33 TO GUZDA, THEN ON TRACK 186.08/4.41 TO CROSS BORST AT 5000 AND AT 210 KIAS, THEN ON TRACK 186.28/13.48 TO CROSS JSTRM AT 5000 AND AT 210 KIAS, THEN ON TRACK 186.28. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KTPA RWY 19L/R, 10: FROM DADES ON TRACK 225.20/4.90 TO LZARD, THEN ON TRACK 267.57/4.83 TO JKBAL AT 6000 AND AT 230 KIAS, THEN ON TRACK 276.70. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KPIE/KMCF/KVDF: FROM DADES ON TRACK 185.57/3.50 TO GSPAR, THEN ON TRACK 180.00. 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: JET AND TURBOPROP AIRCRAFT ONLY

CHART NOTE: DO NOT FILE KRVUR, EDISN, BEAUX OR NICCK TRANSITIONS - TO BE ASSIGNED BY ATC.



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<b>DADES (RNAV)</b>	<b>NINE</b>	<b>DADES.DADES9</b>	<b>EIGHT</b>	<b>12/02/2021</b>	<b>19 May 2022</b>

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT EDISN: HOLD N, RT, 179.02 INBOUND, 10 NM LEGS.  
CHART HOLDING AT CORYY: HOLD NW, RT, 144.40 INBOUND, 10 NM LEGS.  
CHART HOLDING AT OLENE: HOLD N, RT, 179.02 INBOUND, 10 NM LEGS.  
CHART HOLDING AT ZINGR: HOLD E, LT, 255.42 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: TAMPA APP CON  
CHART: TAMPA EXECUTIVE AWOS

AIRPORTS SERVED:

TAMPA, FL (KTPA)  
TAMPA, FL (KMCF)  
ST PETERSBURG-CLEARWATER, FL (KPIE)  
TAMPA, FL (KVDF)

LOST COMMUNICATIONS PROCEDURE:

REMARKS:

THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.  
NICCK TRANSITION: LEG LENGTH BETWEEN DRUDJ AND ROSTR IS COMPLIANT PER AFS PER 8260.58B PARA. 1-2-5(C(1)). ASSUMED ALTITUDES ARE BASED ON ATC ALTITUDES FL195-17000.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)  
MAG VAR: KTPA 05W/2010  
CHART AT JSTRM TERMINUS: KTPA LDG RWY 1L/R.  
CHART AT JKBAL TERMINUS: KTPA LDG RWY 19L/R.  
CHART AT GSPAR TERMINUS: LDG KPIE,KMCF,KVDF.



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<u>FLIGHT INSPECTED BY:</u>				Digitally signed by <b>JASON KRETSCHMER</b>	
	GARY BELL Name	FPO Organization	03/16/22 Date	Apr 11, 2022 Signature	
<u>DEVELOPED BY:</u>				Digitally signed by <b>JASON KRETSCHMER</b>	
	VICKI TURNER Name	DESIGN IMPLEMENTATION MANAGER, AJV22 Organization	0918/2021 Date	Apr 11, 2022 Signature	
<u>APPROVED BY:</u>				Digitally signed by <b>JASON KRETSCHMER</b>	
	MARLON ROBINSON Name	MANAGER, AJV-A420 Organization	Date	Apr 11, 2022 Signature	

CHANGES:

1. ADDED: GUURR WAYPOINT and REMOVED HNING WAYPOINT ON NICCK, BEAUX, HIBAC TRANSITION.
2. ADDED: KRVUR TRANSITION, BAAMF TRANSITIONS.
3. REMOVED: JAYJA TRANSITION.
4. REMOVED: HUNKR WAYPOINT and ASSOCIATED HOLDING PATTERN.
5. REMOVED: NOTE: Descend via MACH number until intercepting 280K. Maintain 280K until slowed by the STAR or assigned by ATC.
6. REMOVED: NOTE: Primary landing Rwys 01L/R, 19L/R.
7. REMOVED NOTE: TPA Landing South: Expect 250KIAS at OLENE.
8. MOVED: GSPAR Waypoint .97NM South.
9. REVISED ALL MEAS TO 5000.
10. ADDED RWY 28 TO TPA 1L/R TRANSITION; REMOVED ARRIVAL TEXT 'OR AS ASSIGNED BY ATC.'
11. ADDED RWY 10 TO TPA 1L/R TRANSITION; REMOVED ARRIVAL TEXT 'OR AS ASSIGNED BY ATC.'
12. HOLDING INBOUND COURSE AT EDISN CHANGED FROM 179.01 TO 179.02.
13. ADDED 10000 FT CROSSING RESTRICTION AT ZINGR FOR BEAUX AND HIBAC TRANSITIONS.

REASONS:

1. PROVIDE MORE SEPERATION BETWEEN PROCEDURES IN HIGHLY DENSE TRAFFIC AREA.
- 2-3. NEW TRANSITIONS CREATED TO PROVIDE MORE EFFICIENT ROUTINGS IN and OUT OF KTPA/KMCO AREA.
4. NEW KRVUR TRANSITION ELIMINATED NEED FOR HUNKR STANDALONE WAYPOINT and HOLDING.
- 5-6, 10-11. ATC REQUEST.
7. EXPECTS NOT ALLOW UNDER CRITERIA.
8. Not Required.
9. Eliminate Leg Length failure.
12. MATCHES COURSE FROM EDISN TO OLENE.
13. HIGHER MEA REQUIRED FOR DME/DME AND IRU COVERAGE.



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03/24/22: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/21/22.

1. REMOVED AIRPORT NAMES FROM AIRPORTS SERVED - CORRECTS AFS REVIEW FINDING.

2. REMOVED PROCEDURE NOTES: TPA Landing North: Expect RADAR Vectors prior to JSTRM, TPA Landing South: Expect RADAR Vectors prior to JKBAL, AND Landing all Satellite Airports: Expect RADAR Vectors prior to GSPAR - CORRECTS AFS REVIEW FINDING.

3. CORRECTED HOLDING PATTERN TURN AT EDISN AND OLENE FROM LT TO RT - DESCREANCY BETWEEN FLMP TEAM SUBMITTED 8260-2 AND 8260-17.1.

4. REMOVED ALL REFERENCES TO LOST COMM IN CHANGES/REASONS SECTION OF 17.1 FORM - CORRECTS AFS REVIEW FINDING.

5. ALL TRANSITIONS: CORRECTED MEA AT FIX DADES FROM 1800 TO 5000.

6. BEAUX AND HIBAC TRANSITIONS: MEA AT FIXES BEAUX AND ZINGR CHANGED FROM 5000 TO 10000.

→ 7. CHANGED NOTE 'KRVUR, EDISN, BEAUX AND NICCK TRANSITIONS - ATC ASSIGNED ONLY' TO 'CHART NOTE: DO NOT FILE KRVUR, EDISN, BEAUX OR NICCK TRANSITIONS - TO BE ASSIGNED BY ATC' - MATCHES THE APPROVAL LETTER.

→ 8. ADDED COMPLIANCE EXPLANATION IN REMARKS REGARDING LEG LENGTH BETWEEN DRUDJ AND ROSTR ON NICCK TRANSITION - AFS RECOMMENDATION IN LIEU OF SUBMITTING A WAIVER.

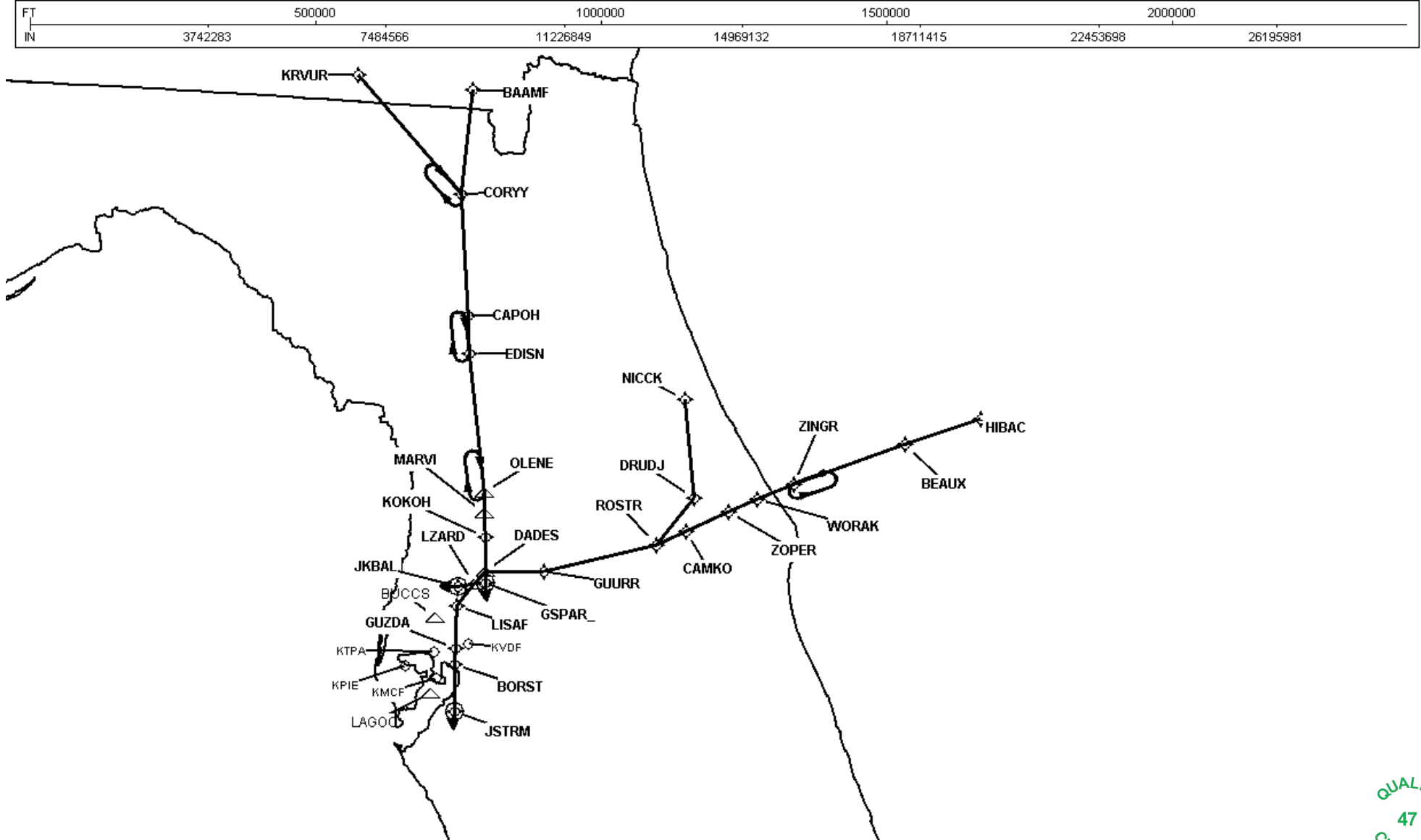
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DADES (RNAV)	NINE	DADES.DADES9	EIGHT	12/02/2021	19 May 2022

Graphic Depiction 1



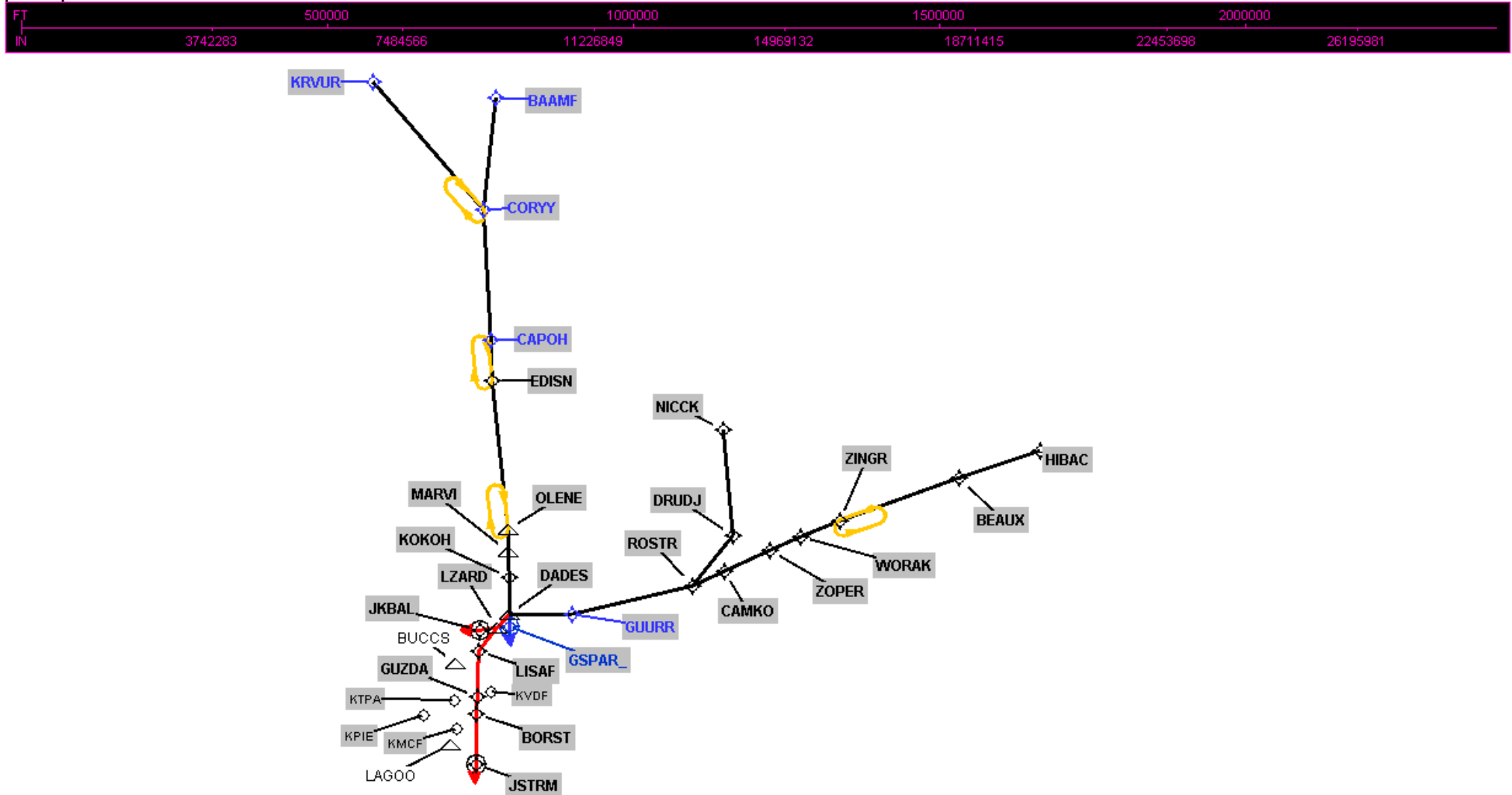
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CHECKED

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DADES (RNAV)	NINE	DADES.DADES9	EIGHT	12/02/2021	19 May 2022

Graphic Depiction 2



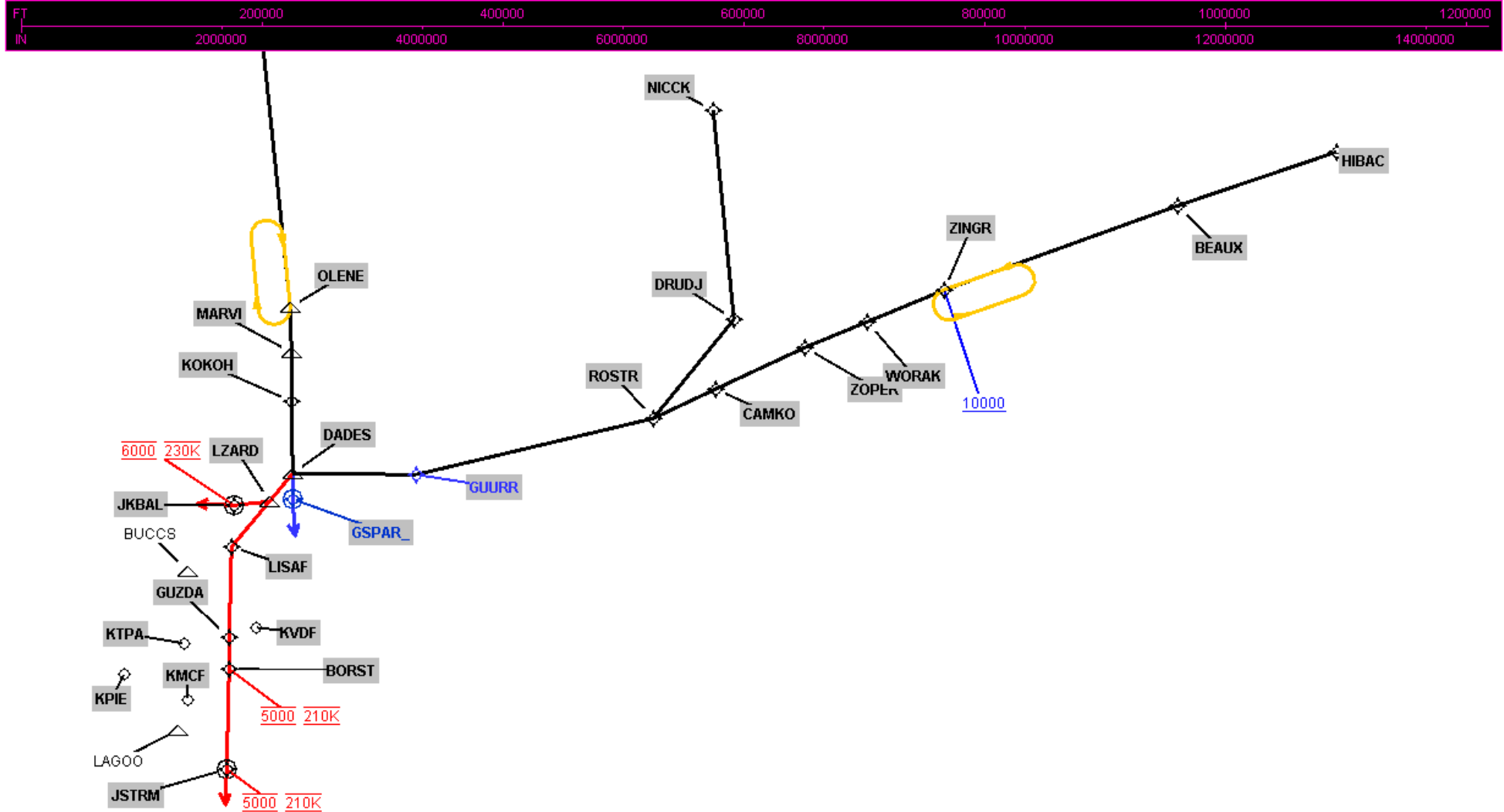
QUALITY  
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CHECKED

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DADES (RNAV)	NINE	DADES.DADES9	EIGHT	12/02/2021	19 May 2022

Graphic Depiction 3

QUALITY  
47  
CHECKED



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STAR (DATA RECORD)

Arrival Name DADES (RNAV)		Number NINE		STAR Computer Code DADES.DADES9		Superseded Number EIGHT		Dated 12/02/2021	Effective Date 19 May 2022
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BAAMF	304013.18N / 0821902.47W	Y		IF					BAAMF.DADES9
CORYY	301015.89N / 0822246.33W	Y	FB	TF	186.18	30.06			
CAPOH	293515.58N / 0822049.56W	Y	FB	TF	177.22	34.96			
EDISN	292414.67N / 0822013.11W	Y	FB	TF	177.23	11.00			
OLENE	284423.26N / 0821528.85W	Y	FB	TF	174.02	39.97			
MARVI	283821.83N / 0821523.32W	Y	FB	TF	179.23	06.01			
KOKOH	283134.74N / 0821515.54W	Y	FB	TF	179.03	06.77			
DADES	282145.62N / 0821507.80W	Y	FB	TF	179.33	09.79			
En Route Transition									
BEAUX	285812.71N / 0795829.19W	Y		IF					BEAUX.DADES9
ZINGR	284648.22N / 0803438.56W	Y	FB	TF	250.42	33.72	AT/ABOVE 10000		
WORAK	284229.13N / 0804631.16W	Y	FB	TF	247.63	11.29			
ZOPER	283857.39N / 0805610.65W	Y	FB	TF	247.53	09.20			
CAMKO	283320.85N / 0810948.09W	Y	FB	TF	245.05	13.23			
ROSTR	282920.92N / 0811927.98W	Y	FB	TF	244.94	09.40			
GUURR	282136.42N / 0815601.38W	Y	FB	TF	256.67	33.14			
DADES	282145.62N / 0821507.80W	Y	FB	TF	270.60	16.86			
En Route Transition									
EDISN	292414.67N / 0822013.11W	Y		IF					EDISN.DADES9
OLENE	284423.26N / 0821528.85W	Y	FB	TF	174.02	39.97			
MARVI	283821.83N / 0821523.32W	Y	FB	TF	179.23	06.01			
KOKOH	283134.74N / 0821515.54W	Y	FB	TF	179.03	06.77			
DADES	282145.62N / 0821507.80W	Y	FB	TF	179.33	09.79			
En Route Transition									
HIBAC	290538.63N / 0793404.65W	Y		IF					HIBAC.DADES9
BEAUX	285812.71N / 0795829.19W	Y	FB	TF	250.99	22.64			

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
ZINGR	284648.22N / 0803438.56W	Y	FB	TF	250.42	33.72	AT/ABOVE 10000		
WORAK	284229.13N / 0804631.16W	Y	FB	TF	247.63	11.29			
ZOPER	283857.39N / 0805610.65W	Y	FB	TF	247.53	09.20			
CAMKO	283320.85N / 0810948.09W	Y	FB	TF	245.05	13.23			
ROSTR	282920.92N / 0811927.98W	Y	FB	TF	244.94	09.40			
GUURR	282136.42N / 0815601.38W	Y	FB	TF	256.67	33.14			
DADES	282145.62N / 0821507.80W	Y	FB	TF	270.60	16.86			
En Route Transition									
KRVUR	304432.15N / 0825630.39W	Y		IF					KRVUR.DADES9
CORYY	301015.89N / 0822246.33W	Y	FB	TF	139.40	44.93			
CAPOH	293515.58N / 0822049.56W	Y	FB	TF	177.22	34.96			
EDISN	292414.67N / 0822013.11W	Y	FB	TF	177.23	11.00			
OLENE	284423.26N / 0821528.85W	Y	FB	TF	174.02	39.97			
MARVI	283821.83N / 0821523.32W	Y	FB	TF	179.23	06.01			
KOKOH	283134.74N / 0821515.54W	Y	FB	TF	179.03	06.77			
DADES	282145.62N / 0821507.80W	Y	FB	TF	179.33	09.79			
En Route Transition									
NICCK	291116.48N / 0811010.16W	Y		IF					NICCK.DADES9
DRUDJ	284249.75N / 0810705.77W	Y	FB	TF	174.56	28.50			
ROSTR	282920.92N / 0811927.98W	Y	FB	TF	219.05	17.30			
GUURR	282136.42N / 0815601.38W	Y	FB	TF	256.67	33.14			
DADES	282145.62N / 0821507.80W	Y	FB	TF	270.60	16.86			
Common Route									
DADES	282145.62N / 0821507.80W	Y		IF					DADES.DADES9
GSPAR	281815.28N / 0821510.16W	Y	FO	TF	180.57	03.50			
KMCF,KPIE,KVDF				FM	175.00				

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
<b>Runway Transition</b>									
DADES	282145.62N / 0821507.80W	Y		IF					
LZARD	281800.55N / 0821842.63W	Y	FB	TF	220.20	04.90			
LISAF	281148.36N / 0822437.17W	Y	FB	TF	220.17	08.09			
GUZDA	275926.58N / 0822455.15W	Y	FB	TF	181.23	12.33			
BORST	275501.42N / 0822500.77W	Y	FB	TF	181.08	04.41	AT 5000	AT 210K	
JSTRM	274130.57N / 0822521.07W	Y	FO	TF	181.28	13.48	AT 5000	AT 210K	
KTPA:RWY 1L,RWY 1R,RWY 28				FM	181.28				
<b>Runway Transition</b>									
DADES	282145.62N / 0821507.80W	Y		IF					
LZARD	281800.55N / 0821842.63W	Y	FB	TF	220.20	04.90			
JKBAL	281722.88N / 0822407.97W	Y	FO	TF	262.57	04.83	AT 6000	AT 230K	
KTPA:RWY 10,RWY 19L,RWY 19R				FM	271.70				