

DME DME Assessment Results for WELLY2 path KPBI:RW10L:DER_CRRMN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Miles CTR Carpenter
Project File:	C:\Users\Miles CTR Carpenter\Desktop\FLMP May 2022 DME Evaluations\KPBI\KPBI WELLY2 SID DME 20211203_0758 EST\KPBI WELLY2 SID DME 20211203.tgs
Output File:	C:\Users\Miles CTR Carpenter\Desktop\FLMP May 2022 DME Evaluations\KPBI\KPBI [IFPA] WELLY2 20211213_1602 EST\KPBI-RW10L-DER_CRRMN\KPBI WELLY2 SID KPBI RW10L CRRMN 20211213_1602 EST.pdf
Procedure Name:	WELLY2
Software: DmeDmePlugin:	6.4.1
Date/Time:	12/13/2021 16:02 EST
Databases:	DTED MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KPBI:RW10L:DER	WP	N26° 40' 54.744", W080° 04' 40.014"	18.3	VNAV	130	FLY_OVER	TF
CRRMN	WP	N26° 40' 39.960", W079° 59' 03.470"	2000	VNAV	200	FLY_OVER	TF
Climb Gradient: 500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KPBI [IFPA]
Climb Gradient:	500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for WELLY2 path KPBI:RW10L:DER_CRRMN

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	ZFP,ZTC

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	ZFP	N26° 33' 19.250", W078° 41' 52.250"	3.0 W	130	H	IFPA	NO	Disabled		
2	ZTC	N26° 44' 05.000", W077° 22' 45.000"	5.0 W	130	H	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						

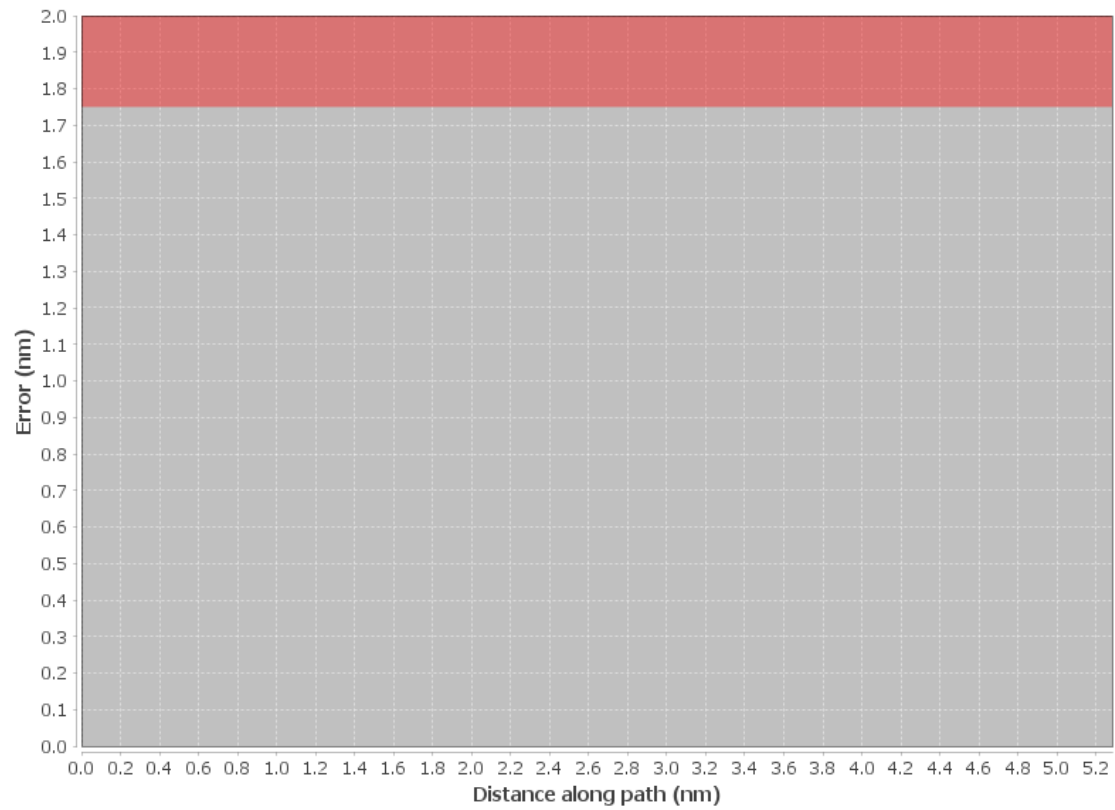
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N26° 40' 54.639", W080° 04' 37.616"	N26° 40' 39.960", W079° 59' 03.470"	4.9922

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KPBI:RW10L:DER	CRRMN	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	DHP FAA 955265-36 DHP [IFPA]	N25° 47' 59.866", W080° 20' 56.526"	4.0 W	130	5.9	113.9	DHP FAA 955265-36	
ESV:		Bearing [True]: 307.0° to 9.0° Bearing [Mag]: 311.0° to 13.0°				Arc Distance: Out to 65.0 NM Altitude: 3100.0 to 16000.0 ft		

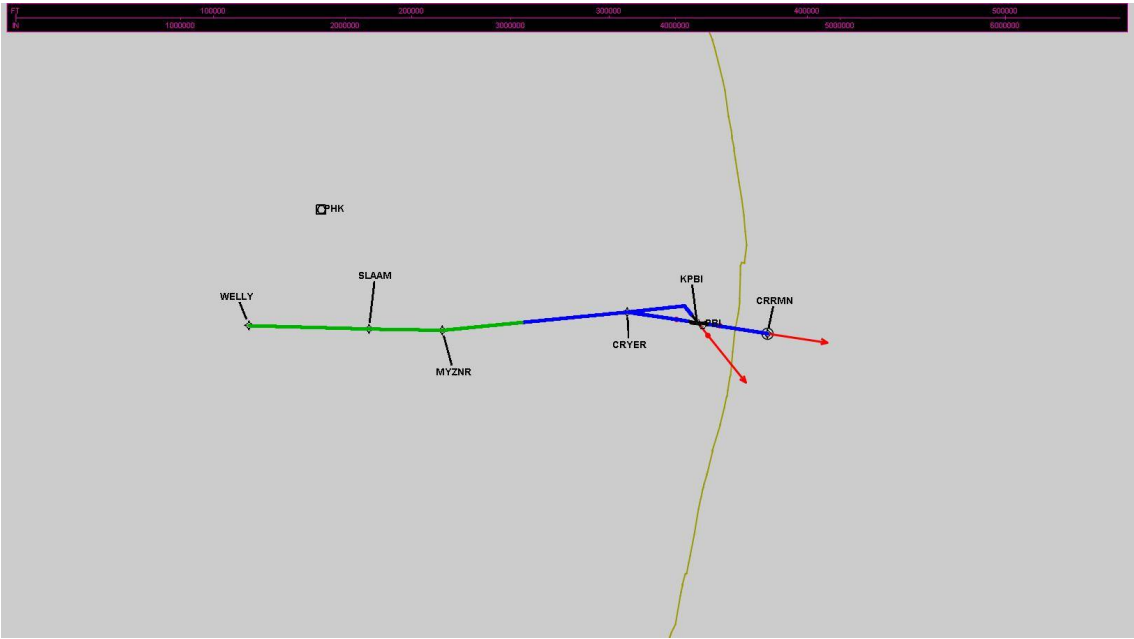
DME DME Assessment Results for WELLY2 path KPBI:RW10L:DER_CRRMN

DME Error



DME DME Assessment Results for WELLY2 path KPBI:RW10L:DER_CRRMN

Graphic Depiction 1



DME DME Assessment Results for WELLY2 path KPBI:RW28R:DER_CRYER

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Miles CTR Carpenter
Project File:	C:\Users\Miles CTR Carpenter\Desktop\FLMP May 2022 DME Evaluations\KPBI\KPBI WELLY2 SID DME 20211203_0758 EST\KPBI WELLY2 SID DME 20211203.tgs
Output File:	C:\Users\Miles CTR Carpenter\Desktop\FLMP May 2022 DME Evaluations\KPBI\KPBI [IFPA] WELLY2 20211213_1602 EST\KPBI-RW28R-DER_CRYER\KPBI WELLY2 SID KPBI RW28R CRYER 20211213_1602 EST.pdf
Procedure Name:	WELLY2
Software: DmeDmePlugin:	6.4.1
Date/Time:	12/13/2021 16:02 EST
Databases:	DTED MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KPBI:RW28R:DER	WP	N26° 40' 59.549", W080° 06' 30.130"	16	VNAV	130	FLY_OVER	TF
CRYER	WP	N26° 41' 12.900", W080° 12' 15.100"	1349.3	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KPBI [IFPA]
Climb Gradient:	500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for WELLY2 path KPBI:RW28R:DER_CRYER

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	ZFP,ZTC

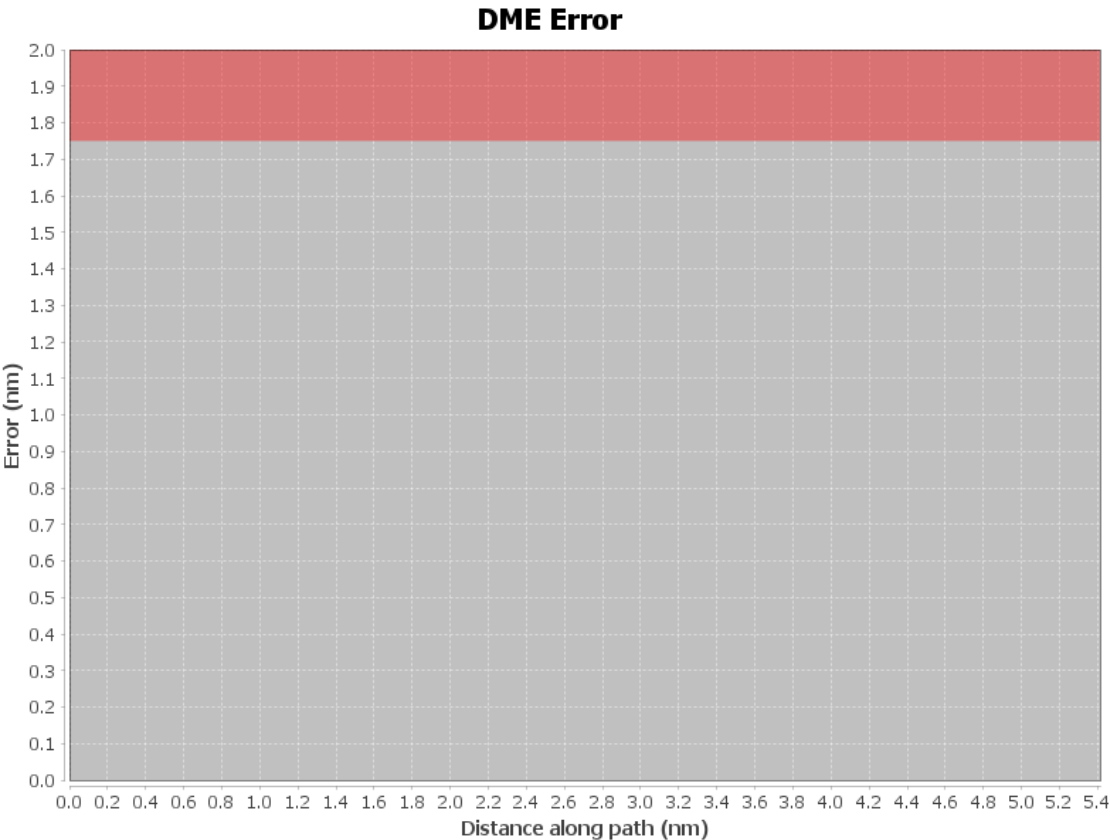
DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	ZFP	N26° 33' 19.250", W078° 41' 52.250"	3.0 W	130	H	IFPA	NO	Disabled		
2	ZTC	N26° 44' 05.000", W077° 22' 45.000"	5.0 W	130	H	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N26° 40' 59.654", W080° 06' 32.538"	N26° 41' 12.900", W080° 12' 15.100"	5.1163

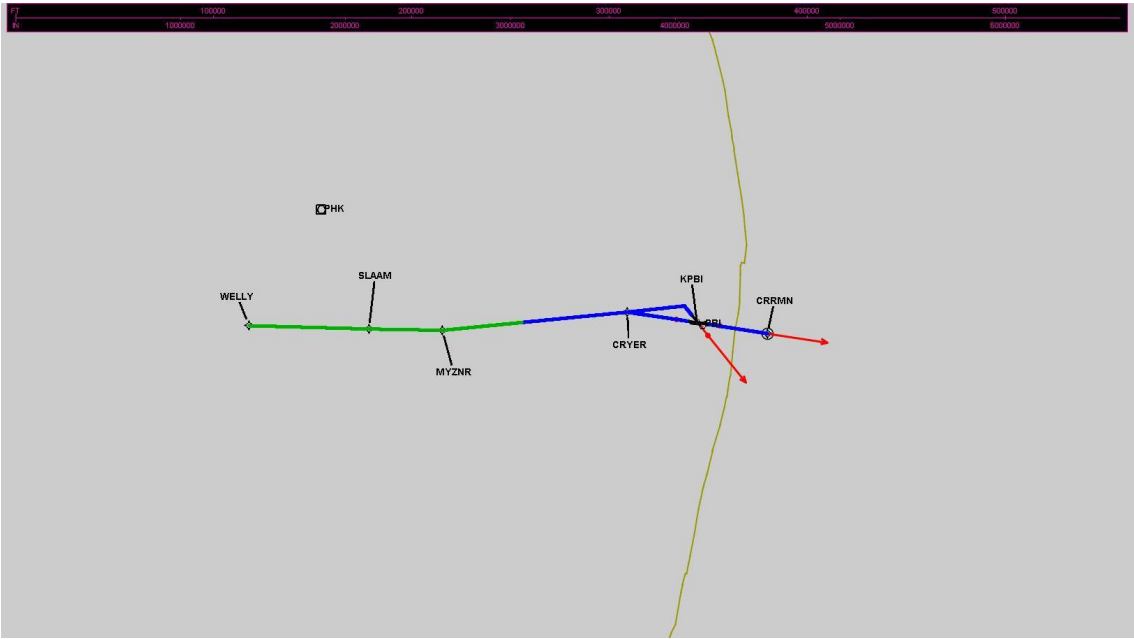
Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KPBI:RW28R:DER	CRYER	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	DHP FAA 955265-36 DHP [IFPA]	N25° 47' 59.866", W080° 20' 56.526"	4.0 W	130	5.9	113.9	DHP FAA 955265-36	
ESV:		Bearing [True]: 307.0° to 9.0° Bearing [Mag]: 311.0° to 13.0°				Arc Distance: Out to 65.0 NM Altitude: 3100.0 to 16000.0 ft		



DME DME Assessment Results for WELLY2 path KPBI:RW28R:DER_CRYER

Graphic Depiction 1



DME DME Assessment Results for WELLY2 path KPBI:RW32:DER_WELLY

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Miles CTR Carpenter
Project File:	C:\Users\Miles CTR Carpenter\Desktop\FLMP May 2022 DME Evaluations\KPBI\KPBI WELLY2 SID DME 20211203_0758 EST\KPBI WELLY2 SID DME 20211203.tgs
Output File:	C:\Users\Miles CTR Carpenter\Desktop\FLMP May 2022 DME Evaluations\KPBI\KPBI [IFPA] WELLY2 20211213_1602 EST\KPBI-RW32-DER_WELLY\KPBI WELLY2 SID KPBI RW32 WELLY 20211213_1602 EST.pdf
Procedure Name:	WELLY2
Software: DmeDmePlugin:	6.4.1
Date/Time:	12/13/2021 16:02 EST
Databases:	DTED MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KPBI:RW32:DER	WP	N26° 41' 30.596", W080° 06' 14.482"	17	VNAV	130	FLY_BY	TF
CRYER	WP	N26° 41' 12.900", W080° 12' 15.100"	1349.3	VNAV	200	FLY_BY	TF
MYZNR	WP	N26° 38' 06.610", W080° 29' 09.440"	4000	VNAV	200	FLY_BY	TF
SLAAM	WP	N26° 37' 35.140", W080° 35' 55.770"	4000	VNAV	200	FLY_BY	TF
WELLY	WP	N26° 36' 48.980", W080° 47' 03.930"	4000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KPBI [IFPA]
Climb Gradient:	500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for WELLY2 path KPBI:RW32:DER_WELLY

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	ZFP,ZTC

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	PHK	N26° 46' 57.873", W080° 41' 29.157"	0.0 E	130	H	IFPA	NO	Enabled	54.8 %	55.6 %
2	LBV	N26° 49' 41.466", W081° 23' 29.178"	1.0 E	40	L	IFPA	NO	Enabled	9.4 %	9.5 %
3	DHP	N25° 47' 59.866", W080° 20' 56.526"	4.0 W	130	H	IFPA	NO	Enabled	60.3 %	61 %
4	PBI	N26° 40' 48.198", W080° 05' 11.359"	3.0 W	130	H	IFPA	NO	Enabled	60.3 %	61 %
5	ZFP	N26° 33' 19.250", W078° 41' 52.250"	3.0 W	130	H	IFPA	NO	Disabled		
6	ZTC	N26° 44' 05.000", W077° 22' 45.000"	5.0 W	130	H	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
14.5	DHP	PBI	PHK			
22.0	DHP	PBI				
24.0	DHP	PBI	PHK			
33.8	PHK	LBV	PBI	DHP		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N26° 41' 32.129", W080° 06' 16.179"	N26° 39' 27.562", W080° 21' 50.118"	14.503

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KPBI:RW32:DER	CRYER	
CRYER	MYZNR	PHK, PBI, DHP
MYZNR	SLAAM	PHK, PBI, DHP
SLAAM	WELLY	LBV, PHK, PBI, DHP

DME DME Assessment Results for WELLY2 path KPBI:RW32:DER_WELLY

User Data Files

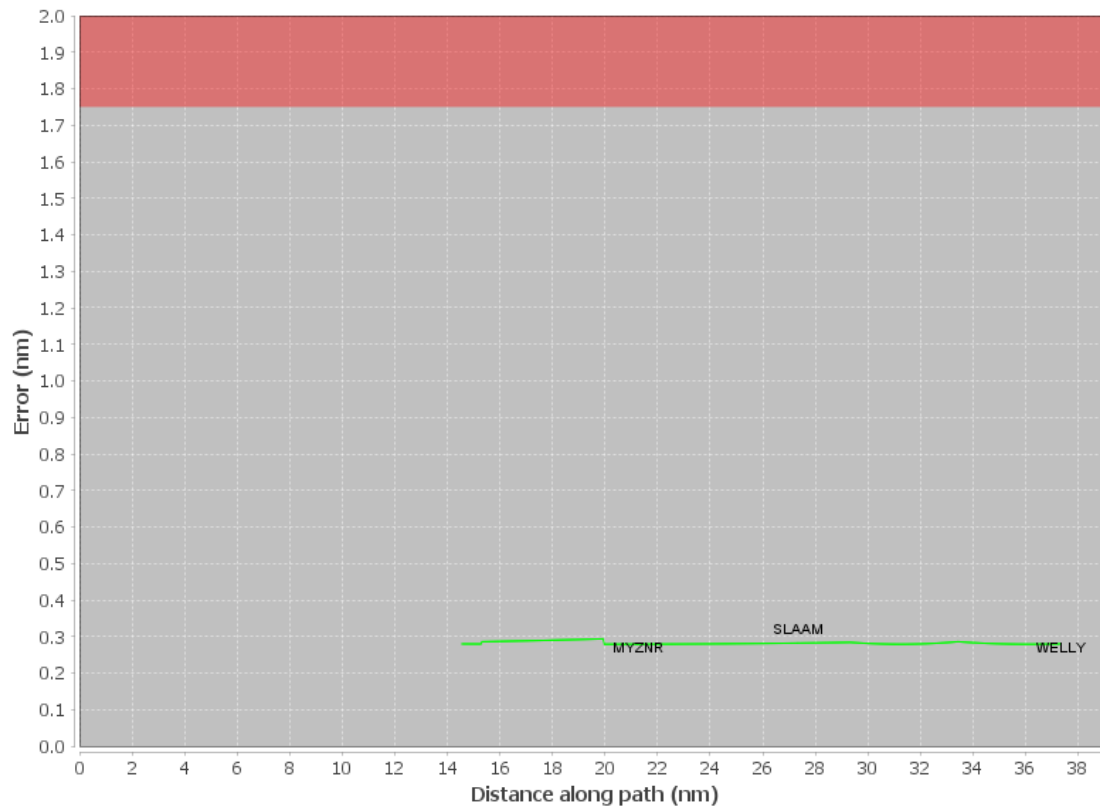
#	File Name
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	DHP FAA 955265-36 DHP [IFPA]	N25° 47' 59.866", W080° 20' 56.526"	4.0 W	130	5.9	113.9	DHP FAA 955265-36	
ESV:		Bearing [True]: 307.0° to 9.0° Bearing [Mag]: 311.0° to 13.0°				Arc Distance: Out to 65.0 NM Altitude: 3100.0 to 16000.0 ft		

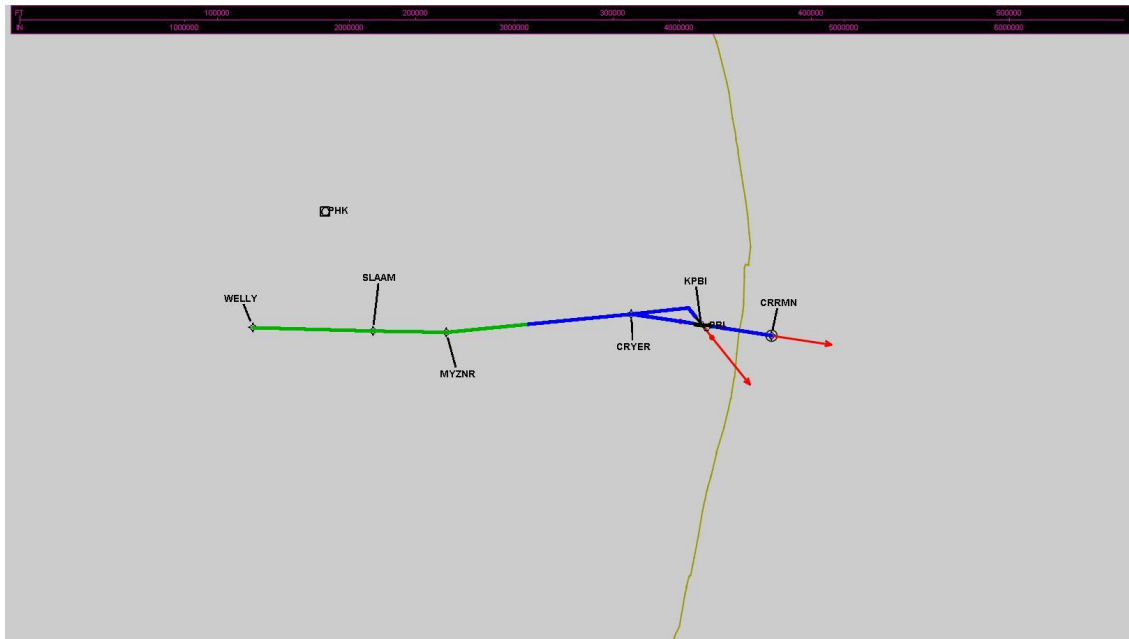
DME DME Assessment Results for WELLY2 path KPBI:RW32:DER_WELLY

DME Error



DME DME Assessment Results for WELLY2 path KPBI:RW32:DER_WELLY

Graphic Depiction 1



WELLY (RNAV)

Point Of Contact

Organization Name - SOUTH CENTRAL FLORIDA METROPLEX

POC's Name - CHRISTAIN KARNS (NATCA), VICKI TURNER (FAA)

Telephone Number - Primary: C. KARNS 404-597-9914, V. TURNER 404-219-9311

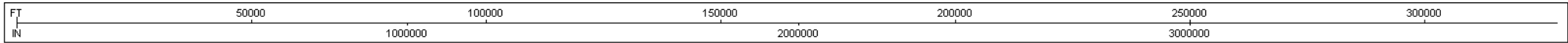
FAX Number -

Email Address - vicki.turner@faa.gov; christian.karns@natca.net

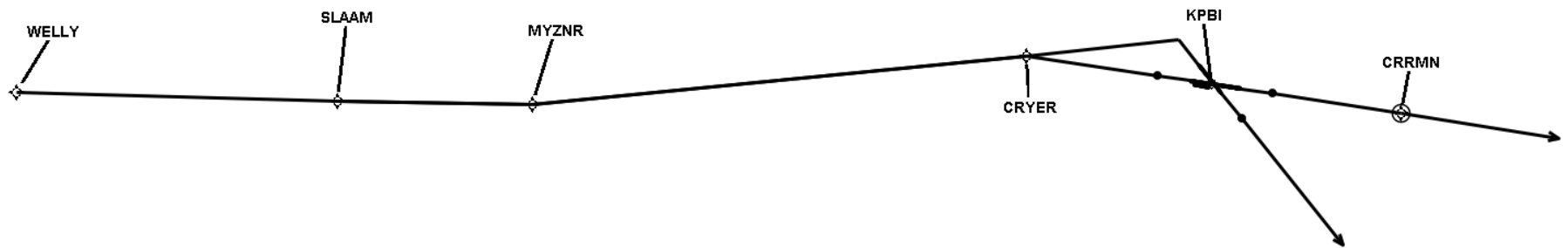
TARGETS Distribution Package

Version:6.4.0

Date: Tue Nov 02 16:11:31 EDT 2021



WELLY (RNAV)



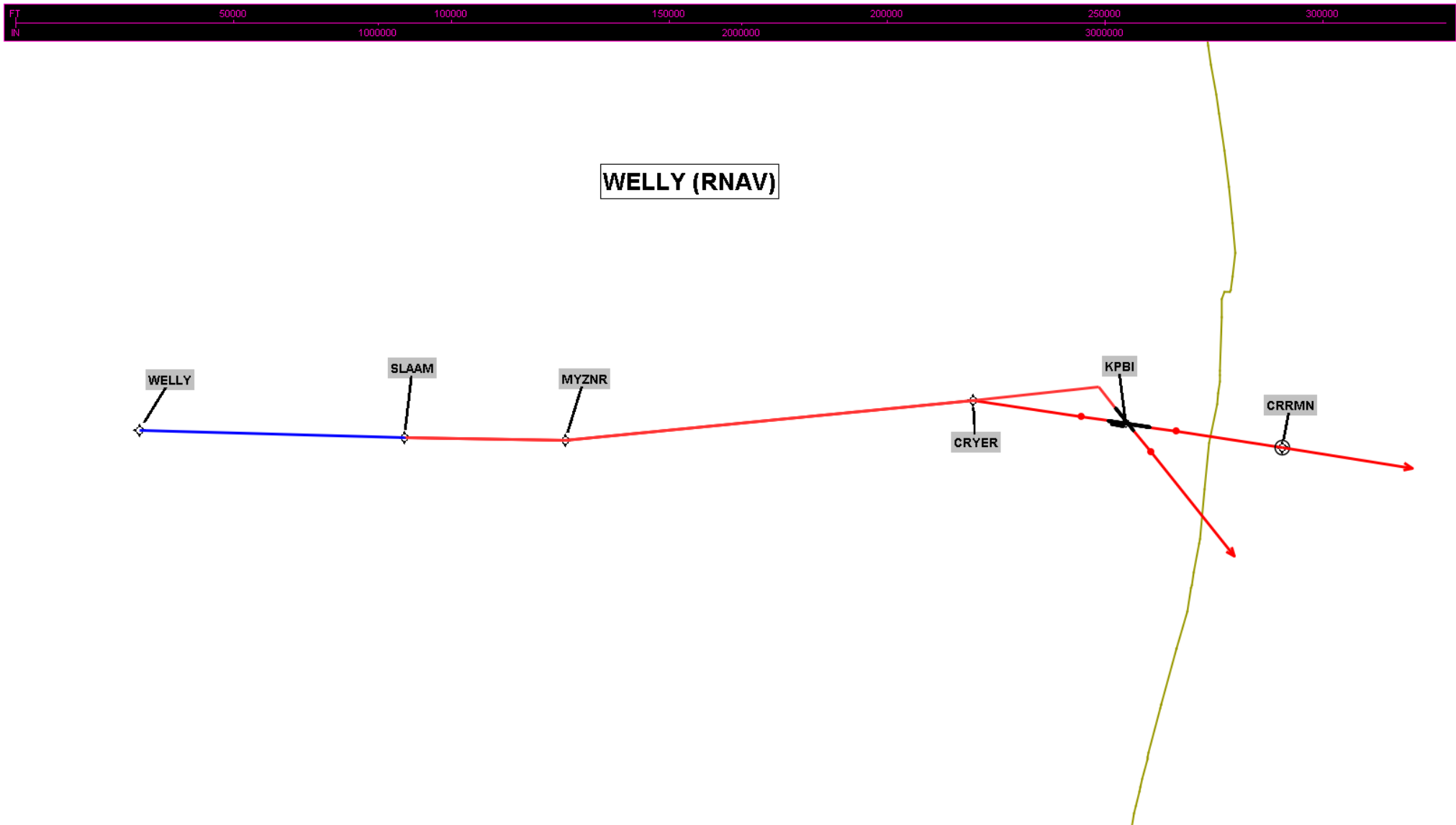
WELLY (RNAV)



WELLY (RNAV)



WELLY (RNAV)



WELLY (RNAV)

Runway Transition Data - KPBI:RW10L

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/ FB	Leg	TC	MC	Dist.	Altitude	Speed	MEA	MOCA	Turn Dir	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
IFPA r25 08-16-18 TO UNK	DER RW10L	N26 40 54.74	W080 04 40.01													
					VA	92.78	98.78	1.00	+520							
IFPA PND r3 12-02- 21 TO UNK	CRRMN WP	N26 40 39.96	W079 59 03.47	FO	DF			4.03								
					VM	93.00	99.00									

Runway Transition Data - KPBI:RW14

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/ FB	Leg	TC	MC	Dist.	Altitude	Speed	MEA	MOCA	Turn Dir	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
IFPA r18 12-05-19 TO UNK	DER RW14	N26 40 41.91	W080 05 20.62													
					VA	135.17	141.17	1.01	+520							
					VM	135.00	141.00									

Runway Transition Data - KPBI:RW28R

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/ FB	Leg	TC	MC	Dist.	Altitude	Speed	MEA	MOCA	Turn Dir	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
IFPA r26 08-16-18 TO UNK	DER RW28R	N26 40 59.55	W080 06 30.13													
					VA	272.79	278.79	1.01	+520							
IFPA PND r2 12-02- 21 TO UNK	CRYER WP	N26 41 12.90	W080 12 15.10	FB	DF			4.15								
IFPA r0 08-12-21 TO UNK	MYZNR WP	N26 38 06.61	W080 29 09.44	FB	TF	258.51	264.51	15.46								
IFPA r0 08-12-21 TO UNK	SLAAM WP	N26 37 35.14	W080 35 55.77	FB	TF	265.10	271.10	6.09								

WELLY (RNAV)

Runway Transition Data - KPBI:RW32

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/ FB	Leg	TC	MC	Dist.	Altitude	Speed	MEA	MOCA	Turn Dir	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
IFPA r19 12-05-19 TO UNK	DER RW32	N26 41 30.60	W080 06 14.48													
					VI	315.18	321.18	1.01								
IFPA PND r2 12-02- 21 TO UNK	CRYER WP	N26 41 12.90	W080 12 15.10	FB	CF	257.82	263.82	4.78								
IFPA r0 08-12-21 TO UNK	MYZNR WP	N26 38 06.61	W080 29 09.44	FB	TF	258.51	264.51	15.46								
IFPA r0 08-12-21 TO UNK	SLAAM WP	N26 37 35.14	W080 35 55.77	FB	TF	265.10	271.10	6.09								

En Route Transition Data - WELLY_

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/ FB	Leg	TC	MC	Dist.	Altitude	Speed	MEA	MOCA	Turn Dir	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
IFPA r0 08-12-21 TO UNK	SLAAM WP	N26 37 35.14	W080 35 55.77		IF											
IFPA r0 08-12-21 TO UNK	WELLY WP	N26 36 48.98	W080 47 03.93	FB	TF	265.65	271.65	10.01			4000	1500				

WELLY (RNAV)

Point Data

DB	Point	Arc Center	Lat-Long (DMS.S)	Latitude (Deg)	Longitude (Deg)	Latitude (D°, M.mm')	Longitude (D°, M.mm')	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")
IFPA PND r3 12-02-21 TO UNK	CRRMN WP		264039.96N-0795903.47W	N 26.6777667	W 79.9842972	N26 40.666	W79 59.058	N26 40 39.96	W079 59 03.47
IFPA PND r2 12-02-21 TO UNK	CRYER WP		264112.90N-0801215.10W	N 26.6869167	W 80.2041944	N26 41.215	W80 12.252	N26 41 12.90	W080 12 15.10
IFPA r23 09-13-18 TO UNK	FLL VOR/DME		260426.18N-0800959.19W	N 26.0739398	W 80.1664423	N26 04.436	W80 09.987	N26 04 26.18	W080 09 59.19
IFPA r0 08-12-21 TO UNK	MYZNR WP		263806.61N-0802909.44W	N 26.6351694	W 80.4859556	N26 38.110	W80 29.157	N26 38 06.61	W080 29 09.44
IFPA r0 08-12-21 TO UNK	SLAAM WP		263735.14N-0803555.77W	N 26.6264278	W 80.5988250	N26 37.586	W80 35.930	N26 37 35.14	W080 35 55.77
IFPA r0 08-12-21 TO UNK	WELLY WP		263648.98N-0804703.93W	N 26.6136056	W 80.7844250	N26 36.816	W80 47.065	N26 36 48.98	W080 47 03.93

WELLY (RNAV)

RS Results WELLY (RNAV)

Last Evaluation: 02-Nov-2021 16:08:24

Reference Software Version: 2.8.0

Project Chart Date: 08/12/2021

En Route Controlling Obstacles

MOCA

Start Pt	End Pt	Name	Source	Obstacle Type	AC (H/V (ft))	Lat	Long	Height (ft)	Height (ft) AMSL	Mnts Area	Pri/Sec Area	ROC (ft)	Worst Case Veg Ht (ft)	Leg MOCA (ft)	Min OCA (ft)	TARGETS Instance Date	Man - Made Obstacle
SLAAM	WELLY	12-020531	IFPA	TOWER	4D (+250/+50)	N26° 41' 01.30"	W080° 43' 38.30"	447.00	447.00	false	P	1000.00	100	1447	1447.00	Tue Nov 02 15:20:18 EDT 2021	true

No MCA Obstacles

Runway Evaluation for RW10L

LNAV Engagement CG (ft/NM):	500.0
LNAV Engagement Termination Altitude (ft):	520.0
Obstacle Climb Gradient (ft/NM):	-
Obstacle CG Termination Altitude (ft):	-
Inhibit controlling obstacles within ICA Extended 3SM Area:	false

Route Evaluation for KPBI:RW10L:WELLY_

Required Engagement Climb Gradient (ft/NM): 500.00

WELLY (RNAV)

KPBI:RW10L:WELLY_ Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Min CG Calc Alt	Turn Ang	Leg Length	Min Seg Length
VA			+520.00			520.00	0.01	1.0	1.0
DF	CRRMN	FLY_OVER				1325.41	0.18	4.03	0.0
VM								0.0	0.0
IF	SLAAM							0.0	0.0
TF	WELLY	FLY_BY				9965.22		10.01	1.0

KPBI:RW10L:WELLY_ Evaluation Results Part 2/2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
VA					0.0	0.0					0.0		520.0	265.0	0.0	30.0	273.92	303.92
DF	CRRMN	FLY_OVER	0.0		520.0	265.0	0.0	30.0	273.92	303.92	0.0	3.49	2533.58	265.0	25.0	52.02	282.29	334.31
VM			0.0	3.49	2533.58	265.0	25.0	52.02	282.29	334.31			0.0	0.0				
IF	SLAAM				0.0	0.0					0.0		16391.33	300.0	0.0	79.45	398.11	477.57
TF	WELLY	FLY_BY	0.0		16391.33	300.0	0.0	79.45	398.11	477.57	0.0		19897.73	300.0	0.0	86.4	422.47	484.8

KPBI:RW10L:WELLY_ Criteria Failures and Warnings

No failures.

Runway Evaluation for RW14

LNAV Engagement CG (ft/NM):	500.0
LNAV Engagement Termination Altitude (ft):	520.0
Obstacle Climb Gradient (ft/NM):	-
Obstacle CG Termination Altitude (ft):	-
Inhibit controlling obstacles within ICA Extended 3SM Area:	false

Route Evaluation for KPBI:RW14:WELLY_

Required Engagement Climb Gradient (ft/NM): 500.00

WELLY (RNAV)

KPBI:RW14:WELLY_ Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Min CG Calc Alt	Turn Ang	Leg Length	Min Seg Length
VA			+520.00			520.00		1.01	1.01
VM								0.0	0.0
IF	SLAAM							0.0	0.0
TF	WELLY	FLY_BY				8166.93		10.01	1.0

KPBI:RW14:WELLY_ Evaluation Results Part 2/2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
VA					0.0	0.0					0.0		520.0	265.0	0.0	30.0	273.92	303.92
VM			0.0		520.0	265.0	0.0	30.0	273.92	303.92			0.0	0.0				
IF	SLAAM				0.0	0.0					0.0		13243.48	300.0	0.0	73.22	377.96	451.18
TF	WELLY	FLY_BY	0.0		13243.48	300.0	0.0	73.22	377.96	451.18	0.0		16749.34	300.0	0.0	80.16	400.5	480.67

KPBI:RW14:WELLY_ Criteria Failures and Warnings

No failures.

Runway Evaluation for RW28R

LNAV Engagement CG (ft/NM):	500.0
LNAV Engagement Termination Altitude (ft):	520.0
Obstacle Climb Gradient (ft/NM):	-
Obstacle CG Termination Altitude (ft):	-
Inhibit controlling obstacles within ICA Extended 3SM Area:	false

Route Evaluation for KPBI:RW28R:WELLY_

Required Engagement Climb Gradient (ft/NM): 500.00

WELLY (RNAV)

KPBI:RW28R:WELLY_ Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Min CG Calc Alt	Turn Ang	Leg Length	Min Seg Length
VA			+520.00			520.00	0.36	1.01	1.01
DF	CRYER	FLY_BY				1349.36	13.98	4.15	0.0
TF	MYZNR	FLY_BY				4441.53	6.72	15.46	1.63
TF	SLAAM	FLY_BY				5660.06	0.6	6.09	1.0
TF	WELLY	FLY_BY				7662.61		10.01	1.0

KPBI:RW28R:WELLY_ Evaluation Results Part 2/2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
VA					0.0	0.0					0.0	2.89	520.0	265.0	25.0	30.0	273.92	303.92
DF	CRYER	FLY_BY	0.0	2.89	520.0	265.0	25.0	30.0	273.92	303.92	1.63	13.32	2593.47	265.0	6.99	52.14	282.55	334.68
TF	MYZNR	FLY_BY	1.63	13.32	2593.47	265.0	6.99	52.14	282.55	334.68	0.0	30.41	10227.64	300.0	5.0	67.25	360.03	427.28
TF	SLAAM	FLY_BY	0.0	30.41	10227.64	300.0	5.0	67.25	360.03	427.28	0.0	32.84	12360.71	300.0	5.0	71.47	372.58	444.05
TF	WELLY	FLY_BY	0.0	32.84	12360.71	300.0	5.0	71.47	372.58	444.05	0.0		15866.43	300.0	0.0	78.42	394.64	473.06

KPBI:RW28R:WELLY_ Criteria Failures and Warnings

No failures.

Runway Evaluation for RW32

LNAV Engagement CG (ft/NM):	500.0
LNAV Engagement Termination Altitude (ft):	520.0
Obstacle Climb Gradient (ft/NM):	-
Obstacle CG Termination Altitude (ft):	-
Inhibit controlling obstacles within ICA Extended 3SM Area:	false

Route Evaluation for KPBI:RW32:WELLY_

Required Engagement Climb Gradient (ft/NM): 500.00

WELLY (RNAV)

KPBI:RW32:WELLY_ Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Min CG Calc Alt	Turn Ang	Leg Length	Min Seg Length
VI						520.00	57.31	1.01	1.01
CF	CRYER	FLY_BY				1476.26	0.7	4.78	1.58
TF	MYZNR	FLY_BY				4568.45	6.72	15.46	1.0
TF	SLAAM	FLY_BY				5786.98	0.6	6.09	1.0
TF	WELLY	FLY_BY				7789.55		10.01	1.0

KPBI:RW32:WELLY_ Evaluation Results Part 2/2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
VI					0.0	0.0					1.58	2.89	520.0	265.0	25.0	30.0	273.92	303.92
CF	CRYER	FLY_BY	1.58	2.89	520.0	265.0	25.0	30.0	273.92	303.92	0.0	18.88	2910.73	265.0	5.0	52.76	283.9	336.67
TF	MYZNR	FLY_BY	0.0	18.88	2910.73	265.0	5.0	52.76	283.9	336.67	0.0	30.65	10449.81	300.0	5.0	67.69	361.31	429.0
TF	SLAAM	FLY_BY	0.0	30.65	10449.81	300.0	5.0	67.69	361.31	429.0	0.0	33.11	12582.89	300.0	5.0	71.91	373.92	445.84
TF	WELLY	FLY_BY	0.0	33.11	12582.89	300.0	5.0	71.91	373.92	445.84	0.0		16088.65	300.0	0.0	78.86	396.11	474.96

KPBI:RW32:WELLY_ Criteria Failures and Warnings

No failures.

Evaluation Input

Name:	RS Results WELLY (RNAV)
Project:	KPBI WELLY 20211029
Last Evaluated:	02-Nov-2021 16:08:24
Evaluated Obstacles?:	true
Obstacle Source:	IFPA Auto-Import
Converted 9I Accuracies to 4D?:	false
Evaluated Terrain?:	true
Worst Case Vegetation Height (ft) AGL:	100
Evaluated Airspace?:	false
Maximum Aircraft Category:	D
MVA Prior to the IF (ft) MSL:	-

WELLY (RNAV)

Airport

Name:	KPBI [IFPA r22 12-05-19 TO UNK]
Location:	N26° 40' 59.38",W080° 05' 44.13"
Elevation (ft):	19.6
Magnetic Variation (degs):	-6 (2010)

AAO Exempt Airports

Name	Location	Elevation (ft)
KPBI	N26° 40' 59.38",W080° 05' 44.13"	19.6

Runways

Name	Airport	Location	Elevation (ft)	TDZE (ft)	True Course (degs)	Survey?
RW10L	KPBI	N26° 40' 58.97",W080° 06' 16.92"	16	16.3	92.8	VGAS
RW10R	KPBI	N26° 40' 52.28",W080° 06' 22.64"	17.1	17.2	92.8	VGAS
RW14	KPBI	N26° 41' 30.60",W080° 06' 14.48"	17	17.3	135.2	VGAS
RW28L	KPBI	N26° 40' 50.73",W080° 05' 47.25"	13.6	16.9	272.8	VGAS
RW28R	KPBI	N26° 40' 55.13",W080° 04' 48.94"	18.3	18.3	272.8	VGAS
RW32	KPBI	N26° 40' 44.85",W080° 05' 23.87"	15.7	15.9	315.2	VGAS

Terrain Information

Terrain Extractor Name	Extractor Location	Extractor Type	Resolution
AJVA DTED	C:\Users\Public\TARGETS\DTED	org.mitre.caasd.terrain.DTEExtractor	3.0

Criteria Failures and Warnings

RDO81: [Warning] The procedure contains VM/FM legs. Ensure that each of these legs either 1.) falls within the confines of a DVA, or 2.) begins at a minimum altitude that is at or above the MVA.

Software Evaluation Failures, Warnings, and Notes

RDEW9: Obstacle evaluation for the leg from VA Minimum Climb Gradient Point to VM could not be completed because the OEA was not properly constructed.
 RDEW4: The OEA for the route beginning at RW14 and ending at WELLY cannot be constructed
 RW32: Minimum VI segment leg was applied.
 RDEW9: Obstacle evaluation for the leg from CRRMN to VM could not be completed because the OEA was not properly constructed.
 Procedure database airport KPBI record magnetic variation of 6.0W (EY 2010) is within 3 degrees of next future epoch year value 7.0W (EY 2025).

Obstacles Requiring Accuracy Code Verification

None.

WELLY (RNAV)

Ignored Obstacles

None.

Procedure Notes

None.

Database Effective Dates

Database	Date
UddfObstacle	07/13/2017
Tiled IFPA	N/A
OEAAA	N/A
DOF	10/07/2021
IFP_OFFLINE	N/A
NFDC	10/07/2021
AVNII_OFFLINE	N/A
IFPA	11/02/2021
CIFP	10/07/2021

Notes: