

BOS 33L RNAV TRANSITION

Point Of Contact

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TARGETS Distribution Package

BOS 33L RNAV TRANSITION

En Route Transition Data - From Graves Light ET

NFDC	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	WPT 2181 WP		IF		N42 21 52.96	W070 52 10.69			+2400	170			
	WPT 2180 WP	1.96	TF	FB	N42 20 03.14	W070 53 08.32	201.3	217.3	+1800	170			

En Route Transition Data - From Marshfield ET

NFDC	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	WPT 2186 WP		IF		N42 17 09.11	W070 45 01.28			+4000	170			
	WPT 2180 WP	6.68	TF	FB	N42 20 03.14	W070 53 08.32	295.8	311.8	+1800	170			

Common Route Data - 280° CR

NFDC	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	WPT 2180 WP		IF		N42 20 03.14	W070 53 08.32			+1800	170			
	WPT 2183 WP	2.90	TF	FB	N42 19 23.04	W070 56 56.48	256.7	272.7	+1000	170			

Runway Transition Data - 280° RT

NFDC	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	WPT 2183 WP		IF		N42 19 23.04	W070 56 56.48			+1000	170			
	KBOS:RW33L:AER WP	2.68	TF	FB	N42 21 16.74	W070 59 29.71	315	331		170			

Waypoint Data

NFDC	Waypoint	Latitude (Deg)	Longitude (Deg)	Latitude (Deg, Decimal Min)	Longitude (Deg, Decimal Min)	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")
	WPT 2180 WP	N 42.3342052	W 70.8856441	N42 20.05	W70 53.14	N42 20 03.14	W070 53 08.32
	WPT 2181 WP	N 42.3647102	W 70.8696371	N42 21.88	W70 52.18	N42 21 52.96	W070 52 10.69
	WPT 2183 WP	N 42.3230665	W 70.9490220	N42 19.38	W70 56.94	N42 19 23.04	W070 56 56.48
	WPT 2186 WP	N 42.2858639	W 70.7503556	N42 17.15	W70 45.02	N42 17 09.11	W070 45 01.28

FAA Criteria Check Results - From Marshfield ET:280° CR:280° RT

NFDC	WP	Leg	FO/FB	Alt	Spd	TC	MC	Turn Angle	Turn Angle Chk	DTA1	DTA2	FAA Min Seg	Avail. Distance	Segment Length Chk	Climb Descent/Decel
	WPT 2186 WP	IF		+4000.0	170.0								0	Pass	
	WPT 2180 WP	TF	FB	+1800.0	170.0	295.75	311.75	39.1	Pass	0	0.8	0.8	6.7	Pass	
	WPT 2183 WP	TF	FB	+1000.0	170.0	256.70	272.70	58.3	Pass	0.8	1.3	2.1	2.9	Pass	
Y	KBOS:RW33L:AER WP	TF	FB		170.0	315.02	331.02			1.3	0	1.3	2.7	Pass	

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FAA Criteria Check Results - From Graves Light ET:280° CR:280° RT

NFDC	WP	Leg	FO/FB	Alt	Spd	TC	MC	Turn Angle	Turn Angle Chk	DTA1	DTA2	FAA Min Seg	Avail. Distance	Segment Length Chk	Climb Descent/Decel
	WPT 2181 WP	IF		+2400.0	170.0								0	Pass	
	WPT 2180 WP	TF	FB	+1800.0	170.0	201.27	217.27	55.4	Pass	0	1.2	1.2	2	Pass	
	WPT 2183 WP	TF	FB	+1000.0	170.0	256.70	272.70	58.3	Pass	1.2	1.3	2.5	2.9	Pass	
Y	KBOS:RW33L:AER WP	TF	FB		170.0	315.02	331.02			1.3	0	1.3	2.7	Pass	

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Notes:

1. Developed for the Boston Overflight Noise Study.
2. Design reflects attempts to minimize overflights of noise sensitive areas.
3. Flyability tests reflect standard TARGETS AC Performance table at 100°F and 60K constant tailwind.
4. Design based on Special Stand-Alone Area Navigation (RNAV) Transition Procedures criteria.

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