

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
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 depiction attached.

Arrival Name OOSHN (RNAV)	Number FOUR	STAR Computer Code EURRO.OOSHN4	Superseded Number THREE	Dated 13 NOV 2014	Effective Date				
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
AJJAY	AJJAY.OOSHN4	AJJAY	AJJAY						AT/ABOVE FL290
			SUFFI	214.20	44.37	17000	1400		
			NIKKO	214.00	16.68	11000	1200		AT/ABOVE 11000
			EURRO	216.04	07.00	10000	1200		AT/ABOVE 10000
KENNEBUNK	ENE.OOSHN4	ENE VOR/DME	ENE VOR/DME						AT/ABOVE FL240
			NIKKO	163.24	47.35	11000	1800		AT/ABOVE 11000
			EURRO	216.04	07.00	10000	1200		AT/ABOVE 10000
FERNZ	FERNZ.OOSHN4	FERNZ	FERNZ						
			LONEY	007.41	38.75	10000	1300		AT/ABOVE 11000
			RODEE	002.95	07.23	10000	1200		
			EURRO	312.52	06.89	10000	1200		AT/ABOVE 10000
FEXXX	FEXXX.OOSHN4	FEXXX	FEXXX						
			FOSTY	072.15	68.82	17000	2100		
			IYANA	086.55	38.59	17000	2200		
			KLEBB	087.09	10.00	15000	1600		
			SOBAH	085.63	22.38	15000	1300		AT/ABOVE 15000
			LONEY	051.23	17.98	10000	1200		AT/ABOVE 11000
			RODEE	002.95	07.23	10000	1200		
			EURRO	312.52	06.89	10000	1200		AT/ABOVE 10000
MERIT	MERIT.OOSHN4	MERIT	MERIT						
			FOSTY	083.16	72.76	17000	2600		
			IYANA	086.55	38.59	17000	2200		
			KLEBB	087.09	10.00	15000	1600		
			SOBAH	085.63	22.38	15000	1300		AT/ABOVE 15000
			LONEY	051.23	17.98	10000	1200		AT/ABOVE 11000
			RODEE	002.95	07.23	10000	1200		
			EURRO	312.52	06.89	10000	1200		AT/ABOVE 10000
PROVI	PROVI.OOSHN4	PROVI	PROVI						

QUALITY

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Arrival Name OOSHN (RNAV)			Number FOUR	STAR Computer Code EURRO.OOSHN4	Superseded Number THREE			Dated 13 NOV 2014	Effective Date
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			IYANA	069.54	33.55	17000	2200		
			KLEBB	087.09	10.00	15000	1600		
			SOBAH	085.63	22.38	15000	1300		AT/ABOVE 15000
			LONEY	051.23	17.98	10000	1200		AT/ABOVE 11000
			RODEE	002.95	07.23	10000	1200		
			EURRO	312.52	06.89	10000	1200		AT/ABOVE 10000
RIFLE	RIFLE.OOSHN4	RIFLE	RIFLE						
			KYSKY	088.18	18.00	17000	1200		
			CUTOX	088.41	20.02	17000	1200		
			CUJKE	088.69	58.05	17000	1200		
			FERNZ	056.59	53.91	16000	1600		
			LONEY	007.41	38.75	10000	1300		AT/ABOVE 11000
			RODEE	002.95	07.23	10000	1200		
			EURRO	312.52	06.89	10000	1200		AT/ABOVE 10000

ARRIVAL ROUTE DESCRIPTION:

FROM EURRO ON TRACK 261.10/7.00 TO CROSS OOSHN BETWEEN 9000 AND 14000 AND AT 250 KIAS (MEA 7000/MOCA 1200).

LANDING RWY 04R/L: FROM OOSHN ON TRACK 267.18/13.31 TO CROSS TTERI AT OR ABOVE 9000 AND AT 250 KIAS (MEA 6000/MOCA 1200), THEN ON TRACK 268.75/14.43 TO WAATR (MEA 5000/MOCA 1300), THEN ON TRACK 240.94/3.84 TO CROSS FLUTI AT OR ABOVE 9000 (MEA 4000/MOCA 1300), THEN ON TRACK 215.59/6.41 TO GRIFI (MEA 4000/MOCA 1400), THEN ON TRACK 213.83/2.33 TO CROSS GGABE AT 6000 AND AT 220 KIAS (MEA 4000/MOCA 1400), THEN ON TRACK 213.68/6.07 TO CROSS JOBEE AT 6000 AND AT 210 KIAS (MEA 4000/MOCA 1500), THEN ON TRACK 213.68. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 15R: FROM OOSHN ON TRACK 282.50/14.83 TO CROSS GRGIO AT OR BELOW 9000 (MEA 6000/MOCA 1200), THEN ON TRACK 269.60/6.14 TO CROSS BRGIT AT 7000 (MEA 6000/MOCA 1500), THEN ON TRACK 273.59/6.00 TO CROSS HNOVR AT 5000 AND AT 220 KIAS (MEA 4000/MOCA 1400), THEN ON TRACK 271.96/10.33 TO CROSS RDHOK AT 5000 AND AT 210 KIAS (MEA 4000/MOCA 1700), THEN ON TRACK 329.80/7.68 TO CROSS TKMAN AT 5000 AND AT 210 KIAS (MEA 4000/MOCA 1500), THEN ON TRACK 329.80. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 22R/L: FROM OOSHN ON TRACK 282.50/14.83 TO CROSS GRGIO AT OR BELOW 9000 (MEA 6000/MOCA 1200), THEN ON TRACK 269.60/6.14 TO CROSS BRGIT AT 7000 (MEA 6000/MOCA 1500), THEN ON TRACK 324.04/4.74 TO CROSS ADDDA AT 6000 AND AT 220 KIAS (MEA 4000/MOCA 1500), THEN ON TRACK 036.01/5.00 TO CROSS LEEZI AT 6000 AND AT 210 KIAS (MEA 4000/MOCA 1500), THEN ON TRACK 036.01. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 27: FROM OOSHN ON TRACK 217.82/7.84 TO PUDJJ (MEA 4000/MOCA 1200), THEN ON TRACK 273.04/10.53 TO CROSS AYBEE AT 6000 AND AT 210 KIAS (MEA 4000/MOCA 1200), THEN ON TRACK 273.04. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 32, 33L: FROM OOSHN ON TRACK 267.18/13.31 TO CROSS TTERI AT OR ABOVE 9000 AND AT 250 KIAS (MEA 6000/MOCA 1200), THEN ON TRACK 268.75/14.43 TO WAATR (MEA 5000/MOCA 1300), THEN ON TRACK 213.55/4.42 TO PLGRM (MEA 5000/MOCA 1300), THEN ON TRACK 181.58/3.14 TO CROSS BECHH AT 5000 AND AT 220 KIAS (MEA 4000/MOCA 1300), THEN ON TRACK 151.36/4.90 TO CROSS SCITU AT 5000 AND AT 210 KIAS (MEA 4000/MOCA 1300), THEN ON TRACK 151.36. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
OOSHN (RNAV)	FOUR	EURRO.OOSHN4	THREE	13 NOV 2014	

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: TURBOJET AIRCRAFT ONLY

NOTE: FEXXX, MERIT, PROVI, RIFLE TRANSITIONS ASSIGNED BY ATC ONLY.

FIXES AND/OR HOLDING PATTERNS:

CHART KLANE AS A STAND-ALONE FIX.

CHART HOLDING AT AJJAY: NE, LT, 218.20 INBOUND, 20 NM LEGS.

CHART HOLDING AT ENE VOR/DME: NE, LT, 224.00 INBOUND, 20 NM LEGS.

CHART HOLDING AT FERNZ: S, RT, 360.00 INBOUND, 20 NM LEGS.

CHART HOLDING AT LONEY: W, RT, 002.95 INBOUND, 10 NM LEGS.

CHART HOLDING AT OOSHN: E, RT, 261.10 INBOUND, 20 NM LEGS.

COMMUNICATIONS:

BOSTON APP CON, ATIS

AIRPORTS SERVED:

GENERAL EDWARD LAWRENCE LOGAN INTL, BOSTON, MA

LOST COMMUNICATIONS PROCEDURE:

REMARKS:

DEPICT KLANE STAND-ALONE WAYPOINT OFFSET FROM RW27 TRANSITION TO AVOID MISUNDERSTANDING.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAG VAR: KBOS 16W/1995.

CHART: "ASSIGNED BY ATC ONLY" AFTER FEXXX, MERIT, PROVI, AND RIFLE ENROUTE TRANSITION COMPUTER CODES.

ENSURE CORRESPONDING NOTE IS ALSO CHARTED ON PROCEDURE GRAPHIC ADJACENT TO APPROPRIATE TRANSITION DEPICTION.

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<u>FLIGHT INSPECTED BY:</u>					
Name		Organization	Date	Signature	
<u>DEVELOPED BY:</u>					
MICHAEL BANEY, SUPPORT MANAGER		BOSTON ARTCC			
Name		Organization	Date	Signature	
<u>APPROVED BY:</u>					
MARLON J. ROBINSON, MANAGER		AJV-5410			
Name		Organization	Date	Signature	

CHANGES:

1. RWY15R TRANSITION APPENDED AFTER HNOVR ON TRACK 271.96/10.33 NM TO CROSS RDHOK AT 5000 AND AT 210 KIAS, THEN ON TRACK 329.80/7.68 NM TO CROSS TKMAN AT 5000 AND 210 KIAS AND THEN ON TRACK 329.80.
2. CHARTED HOLDING AT LONEY ADDED.
3. CURLI DELETED FROM PROCEDURE.
4. JUNCTION OF THE MERIT, FEXXX AND PROVI TRANSITIONS MOVED 10.3 NM EAST FROM CURLI TO NEW WP IYANA.
5. AT EURRO: "AT OR ABOVE 10000" RESTRICTION ADDED.
6. KLANE ADDED AS A STAND-ALONE FIX.
7. MOCA'S ADDED
8. CHANGED NOTE: "FEXXX, MERIT, RIFLE, PROVI TRANSITIONS ARE ATC ASSIGNED" TO "FEXXX, MERIT, PROVI, RIFLE TRANSITIONS ASSIGNED BY ATC ONLY."
9. ADDED CHARTING INSTRUCTIONS TO ADD "ASSIGNED BY ATC ONLY" AFTER THE FEXXX, MERIT, PROVI, AND RIFLE ENROUTE TRANSITION COMPUTER CODES.
10. ADDED GRAPHIC CHART NOTE "ASSIGNED BY ATC ONLY" TO PROCEDURE DEPICTION ADJACENT TO APPROPRIATE TRANSITIONS.

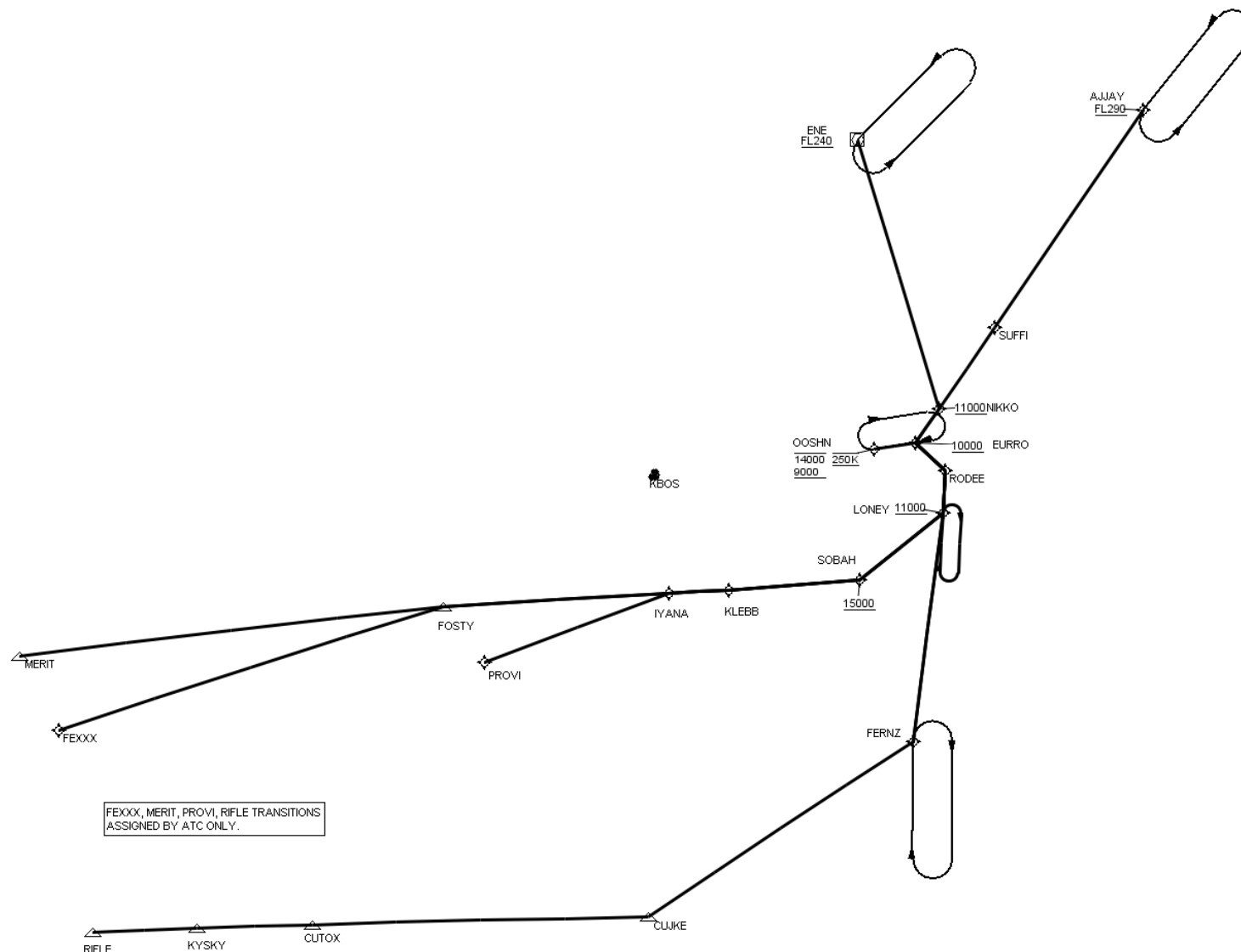
REASONS:

1. TO PLACE AIRCRAFT ON RWY 15R DOWNWIND.
- 2-5. TO BETTER OPTIMIZE TRAFFIC FLOW.
6. IMPROVE SITUATIONAL AWARENESS AS RWY 27 TRANSITIONS ALIGNS WITH RWY 27 FAC.
7. REQUIRED BY 7100.9E.
8. EDITORIAL.
- 9-10. CLARITY.

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OOSHN (RNAV)	FOUR	EURRO.OOSHN4	THREE	13 NOV 2014	
Graphic Depiction 1					



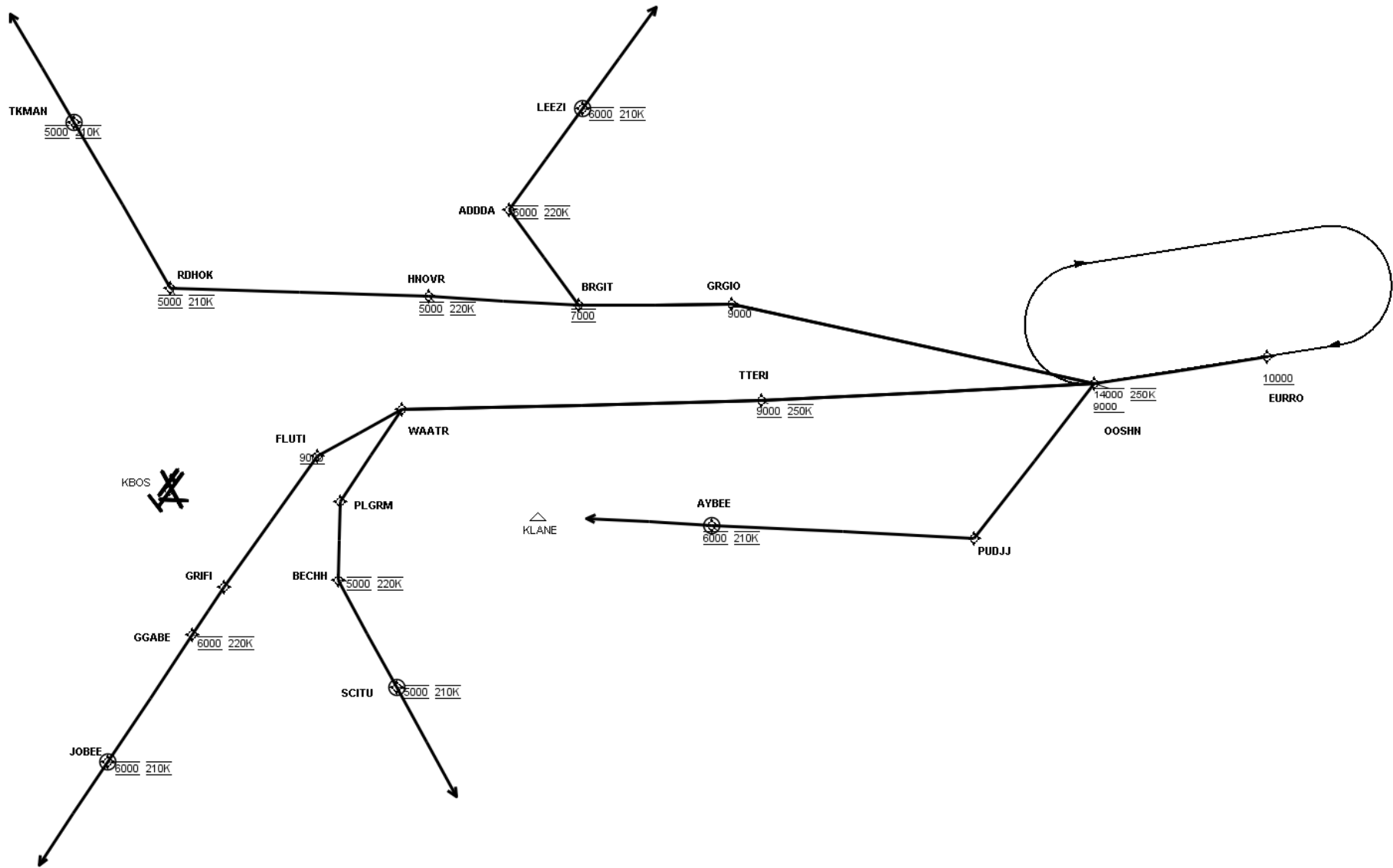
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OOSHN (RNAV)	FOUR	EURO.OOSHN4	THREE	13 NOV 2014	

Graphic Depiction 2



STAR (DATA RECORD)

Arrival Name OOSHN (RNAV)	Number FOUR	STAR Computer Code EURRO.OOSHN4	Superseded Number THREE	Dated 13 NOV 2014	Effective Date
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
AJJAY	434340.55N / 0693608.22W	Y		IF			AT/ABOVE FL290		AJJAY.OOSHN4
SUFFI	430129.66N / 0695501.71W	Y	FB	TF	198.20	44.37			
NIKKO	424537.41N / 0700201.55W	Y	FB	TF	198.00	16.68	AT/ABOVE 11000		
EURRO	423902.67N / 0700516.55W	Y	FB	TF	200.04	07.00	AT/ABOVE 10000		
En Route Transition									
ENE VOR/DME	432532.42N / 0703648.69W	Y		IF			AT/ABOVE FL240		ENE.OOSHN4
NIKKO	424537.41N / 0700201.55W	Y	FB	TF	147.24	47.35	AT/ABOVE 11000		
EURRO	423902.67N / 0700516.55W	Y	FB	TF	200.04	07.00	AT/ABOVE 10000		
En Route Transition									
FERNZ	415035.40N / 0694653.11W	Y		IF					FERNZ.OOSHN4
LONEY	422855.22N / 0695442.21W	Y	FB	TF	351.41	38.75	AT/ABOVE 11000		
RODEE	423558.22N / 0695654.94W	Y	FB	TF	346.95	07.23			
EURRO	423902.67N / 0700516.55W	Y	FB	TF	296.52	06.89	AT/ABOVE 10000		
En Route Transition									
FEXXX	411239.54N / 0725459.76W	Y		IF					FEXXX.OOSHN4
FOSTY	415035.46N / 0713831.34W	Y	FB	TF	056.15	68.82			
IYANA	420316.48N / 0704940.68W	Y	FB	TF	070.55	38.59			
KLEBB	420630.28N / 0703658.08W	Y	FB	TF	071.09	10.00			
SOBAH	421414.45N / 0700843.28W	Y	FB	TF	069.63	22.38	AT/ABOVE 15000		
LONEY	422855.22N / 0695442.21W	Y	FB	TF	035.23	17.98	AT/ABOVE 11000		
RODEE	423558.22N / 0695654.94W	Y	FB	TF	346.95	07.23			
EURRO	423902.67N / 0700516.55W	Y	FB	TF	296.52	06.89	AT/ABOVE 10000		
En Route Transition									
MERIT	412255.02N / 0730814.75W	Y		IF					MERIT.OOSHN4
FOSTY	415035.46N / 0713831.34W	Y	FB	TF	067.16	72.76			



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
IYANA	420316.48N / 0704940.68W	Y	FB	TF	070.55	38.59			
KLEBB	420630.28N / 0703658.08W	Y	FB	TF	071.09	10.00			
SOBAH	421414.45N / 0700843.28W	Y	FB	TF	069.63	22.38	AT/ABOVE 15000		
LONEY	422855.22N / 0695442.21W	Y	FB	TF	035.23	17.98	AT/ABOVE 11000		
RODEE	423558.22N / 0695654.94W	Y	FB	TF	346.95	07.23			
EURRO	423902.67N / 0700516.55W	Y	FB	TF	296.52	06.89	AT/ABOVE 10000		

En Route Transition

PROVI	414325.46N / 0712554.17W	Y		IF					PROVI.OOSHN4
IYANA	420316.48N / 0704940.68W	Y	FB	TF	053.54	33.55			
KLEBB	420630.28N / 0703658.08W	Y	FB	TF	071.09	10.00			
SOBAH	421414.45N / 0700843.28W	Y	FB	TF	069.63	22.38	AT/ABOVE 15000		
LONEY	422855.22N / 0695442.21W	Y	FB	TF	035.23	17.98	AT/ABOVE 11000		
RODEE	423558.22N / 0695654.94W	Y	FB	TF	346.95	07.23			
EURRO	423902.67N / 0700516.55W	Y	FB	TF	296.52	06.89	AT/ABOVE 10000		

En Route Transition

RIFLE	404124.18N / 0723454.89W	Y		IF					RIFLE.OOSHN4
KYSKY	404652.75N / 0721221.45W	Y	FB	TF	072.18	18.00			
CUTOX	405253.28N / 0714711.87W	Y	FB	TF	072.41	20.02			
CUJKE	410947.03N / 0703348.84W	Y	FB	TF	072.69	58.05			
FERNZ	415035.40N / 0694653.11W	Y	FB	TF	040.59	53.91			
LONEY	422855.22N / 0695442.21W	Y	FB	TF	351.41	38.75	AT/ABOVE 11000		
RODEE	423558.22N / 0695654.94W	Y	FB	TF	346.95	07.23			
EURRO	423902.67N / 0700516.55W	Y	FB	TF	296.52	06.89	AT/ABOVE 10000		

Common Route

EURRO	423902.67N / 0700516.55W	Y		IF			AT/ABOVE 10000		EURRO.OOSHN4
OOSHN	423605.44N / 0701352.37W	Y	FB	TF	245.10	07.00	9000B14000	AT 250K	

STAR (DATA RECORD)

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Runway Transition									
OOSHN	423605.44N / 0701352.37W	Y		IF			9000B14000	AT 250K	
TTERI	423146.46N / 0703054.94W	Y	FB	TF	251.18	13.31	AT/ABOVE 9000	AT 250K	
WAATR	422728.16N / 0704931.96W	Y	FB	TF	252.75	14.43			
FLUTI	422444.74N / 0705311.93W	Y	FB	TF	224.94	03.84	AT/ABOVE 9000		
GRIFI	421842.17N / 0705605.73W	Y	FB	TF	199.59	06.41			
GGABE	421629.28N / 0705703.28W	Y	FB	TF	197.83	02.33	AT 6000	AT 220K	
JOBEE	421041.96N / 0705932.15W	Y	FO	TF	197.68	06.07	AT 6000	AT 210K	
KBOS:RWY 04B				FM	197.68				RECOMMENDED NAVAID: BOS VOR/DME

Runway Transition									
OOSHN	423605.44N / 0701352.37W	Y		IF			9000B14000	AT 250K	
GRGIO	423509.36N / 0703354.40W	Y	FB	TF	266.50	14.83	AT/BELOW 9000		
BRGIT	423325.12N / 0704152.30W	Y	FB	TF	253.60	06.14	AT 7000		
HNOVR	423207.43N / 0704947.85W	Y	FB	TF	257.59	06.00	AT 5000	AT 220K	
RDHOK	422936.10N / 0710320.94W	Y	FB	TF	255.96	10.33	AT 5000	AT 210K	
TKMAN	423454.97N / 0711051.19W	Y	FO	TF	313.80	07.68	AT 5000	AT 210K	
KBOS:RWY 15R				FM	313.80				RECOMMENDED NAVAID: BOS VOR/DME

Runway Transition									
OOSHN	423605.44N / 0701352.37W	Y		IF			9000B14000	AT 250K	
GRGIO	423509.36N / 0703354.40W	Y	FB	TF	266.50	14.83	AT/BELOW 9000		
BRGIT	423325.12N / 0704152.30W	Y	FB	TF	253.60	06.14	AT 7000		
ADDDA	423620.25N / 0704655.46W	Y	FB	TF	308.04	04.74	AT 6000	AT 220K	
LEEZI	424102.21N / 0704436.30W	Y	FO	TF	020.01	05.00	AT 6000	AT 210K	
KBOS:RWY 22B				FM	020.01				RECOMMENDED NAVAID: BOS VOR/DME

Runway Transition									
OOSHN	423605.44N / 0701352.37W	Y		IF			9000B14000	AT 250K	
PUDJJ	422848.58N / 0701748.68W	Y	FB	TF	201.82	07.84			

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
AYBEE	422626.01N / 0703140.48W	Y	FO	TF	257.04	10.53	AT 6000	AT 210K	
KBOS:RWY 27				FM	257.04				RECOMMENDED NAVAID: BOS VOR/DME

Runway Transition									
OOSHN	423605.44N / 0701352.37W	Y		IF			9000B14000	AT 250K	
TTERI	423146.46N / 0703054.94W	Y	FB	TF	251.18	13.31	AT/ABOVE 9000	AT 250K	
WAATR	422728.16N / 0704931.96W	Y	FB	TF	252.75	14.43			
PLGRM	422315.44N / 0705119.79W	Y	FB	TF	197.55	04.42			
BECHH	422012.83N / 0705016.49W	Y	FB	TF	165.58	03.14	AT 5000	AT 220K	
SCITU	421643.48N / 0704538.19W	Y	FO	TF	135.36	04.90	AT 5000	AT 210K	
KBOS:RWY 32, RWY 33L				FM	135.36				RECOMMENDED NAVAID: BOS VOR/DME