

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Arrival Name HHOOD RNAV			Number THREE	STAR Computer Code HHOOD.HHOOD3	Superseded Number TWO			Dated 7 MAR 2013	Effective Date 25 JUNE 2015
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
TRANSITION ROUTES:									
BAYYR	BAYYR.HHOOD3	BAYYR	BAYYR						AT/ABOVE 13000
			HHOOD	254.30	13.14	9000	6900		BETWEEN 9000 AND 15000
DUFUR	DUFUR.HHOOD3	DUFUR	DUFUR						
			RABBI	269.75	09.28	13000	6800		AT/ABOVE 13000
			HHOOD	269.75	13.13	9000	7200		BETWEEN 9000 AND 15000
JKNOX	JKNOX.HHOOD3	JKNOX	JKNOX						AT/ABOVE FL240
			MYTOE	255.45	26.86	17000	4900		AT/ABOVE 17000
			BAYYR	254.55	15.00	13000	5800		AT/ABOVE 13000
			HHOOD	254.30	13.14	9000	6900		BETWEEN 9000 AND 15000
JORAD	JORAD.HHOOD3	JORAD	JORAD						AT/ABOVE FL240
			LUUND	232.74	19.54	17000	5600		AT/ABOVE 17000
			YENTL	232.42	14.98	13000	5500		AT/ABOVE 13000
			HHOOD	232.33	13.16	9000	6900		BETWEEN 9000 AND 15000
JOTBA	JOTBA.HHOOD3	JOTBA	JOTBA						AT/ABOVE FL240
			SODDA	282.72	27.30	17000	5400		AT/ABOVE 17000
			DUFUR	282.37	05.64	13000	5100		
			RABBI	269.75	09.28	13000	6800		AT/ABOVE 13000
			HHOOD	269.75	13.13	9000	7200		BETWEEN 9000 AND 15000
RABBI	RABBI.HHOOD3	RABBI	RABBI						AT/ABOVE 13000
			HHOOD	269.75	13.13	9000	7200		BETWEEN 9000 AND 15000
YENTL	YENTL.HHOOD3	YENTL	YENTL						AT/ABOVE 13000
			HHOOD	232.33	13.16	9000	6900		BETWEEN 9000 AND 15000



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
HHOOD RNAV	THREE	HHOOD.HHOOD3	TWO	7 MAR 2013	25 JUNE 2015

ARRIVAL ROUTE DESCRIPTION:

FROM HHOOD ON TRACK 257.00/10.24 TO BLRUN (MEA 7200), THENCE...

LANDING RWY 10L/R: FROM BLRUN ON TRACK 270.64/13.86 TO CROSS SSDEE BETWEEN 9000 AND 11000 (MEA 7000/MOCA 6300), THEN ON TRACK 270.40/4.11 TO CROSS THEID BETWEEN 8000 AND 10000 (MEA 7000/MOCA 3800), THEN ON TRACK 270.35/4.25 TO CROSS CROSS EMZEY BETWEEN 7000 AND 8000 AND AT 230 KIAS (MEA 5000/MOCA 3300), THEN ON TRACK 281.18/6.47 TO CROSS CIZZL AT OR ABOVE 5000 AND AT 210 KIAS (MEA 5000/MOCA 3100), THEN ON TRACK 281.35/2.50 TO CROSS YORKY AT 5000 (MEA 5000/MOCA 2700), THEN ON TRACK 281.32/7.40 TO NNUTT (MEA 5000/MOCA 2700), THEN ON TRACK 278.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 21: FROM BLRUN ON TRACK 279.47/11.00 TO CROSS SOOZN AT 8000 AND AT 210 KIAS (MEA 6400), THEN ON TRACK 279.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 28L/R: FROM BLRUN ON TRACK 258.56/3.50 TO CROSS SHAFR AT 6700 AND AT 210 KIAS (MEA 6700). EXPECT RNAV (RNP)/ILS/VISUAL APPROACH AS ASSIGNED BY ATC.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280K. MAINTAIN 280K UNTIL SLOWED BY THE STAR.

FIXES AND/OR HOLDING PATTERNS:

CHART BTG VORTAC, CHART UBG VOR/DME, CHART HOLDING DUFUR (HOLD E, LT, 266.97 INBOUND, 10 NM LEGS), CHART HOLDING JKNOX (HOLD E, RT, 255.45 INBOUND, 10 NM LEGS), CHART HOLDING JOTBA (HOLD E, LT, 282.72 INBOUND, 10 NM LEGS), CHART HOLDING LUUND (HOLD NE, LT, 232.42 INBOUND, 10 NM LEGS),

COMMUNICATIONS:

PDX ATIS, PDX APP CON, PDX TWR, PDX GND CON

AIRPORTS SERVED:

PORTLAND INTL, PORTLAND, OR

LOST COMMUNICATIONS PROCEDURE:

LANDING RWY 10: AT NNUTT, TURN LEFT DIRECT TO BUXOM AND EXECUTE ILS RWY 10L APPROACH.

LANDING RWY 21: AT SOOZN TURN RIGHT DIRECT TO CREAK AND EXECUTE LOC/DME RWY 21 APPROACH.

LANDING RWY 28: AT SHAFR, TURN LEFT DIRECT TO NACIY AND EXECUTE ILS RWY 28R APPROACH.

REMARKS:**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0).

REFERENCE MAGNETIC VARIATION = KPDX 16E/2010



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

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
HHOOD RNAV	THREE	HHOOD.HHOOD3	TWO	7 MAR 2013	25 JUNE 2015

CHANGES:

1. ADDED: RWY 21 TRANSITION, INCLUDING SOOZN WP AND ASSOCIATED LOST COMMUNICATIONS INSTRUCTIONS.
2. ADDED: JORAD WP AND EN ROUTE TRANSITION; MOVED LUUND AND YENTL WAYPOINTS.
3. ADDED: CROSSING RESTRICTION AT LUUND, MYTOE AND SODDA OF AT/ABOVE 17000.
4. ADDED: HOLDING AT LUUND.
5. ADDED: YORKY WP WITH CROSSING RESTRICTION OF AT 5000.
6. DELETED: JERDT AND JUBAR WAYPOINTS AND EN ROUTE TRANSITIONS.
7. DELETED: SPEED RESTRICTION OF 280 KIAS AT JKNOX AND JOTBA.
8. DELETED: 4000' RESTRICTION AT NNUTT WP.
9. DELETED: NOTE FOR NON-GPS EQUIPPED AIRCRAFT FOR BTG & UBG DMES
10. CHANGED: SHAFR WP FROM FLYOVER TO FLYBY WAYPOINT.
11. CHANGED: CROSSING RESTRICTION AT SHAFR FROM AT/ABOVE 6700 TO AT 6700 AND SPEED FROM 240 KIAS TO 210 KIAS.
12. CHANGED: CROSSING RESTRICTION AT BAYYR, RABBI AND YENTL FROM AT/BELOW FL240 TO AT/ABOVE 13000.
13. CHANGED: CROSSING RESTRICTION AT HHOOD FROM BETWEEN 10000 AND 15000 TO BETWEEN 9000 AND 15000.
14. CHANGED: RWY TRANSITION ENDS FROM VM TO FM - REFERENCE NAVAID = HLN/16E

REASONS:

- 1 - 14. ATC and Industry Request.



US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name HHOOD RNAV		Number THREE		STAR Computer Code HHOOD.HHOOD3		Superseded Number TWO		Dated 7 MAR 2013		Effective Date 25 JUNE 2015	
FIX/NAVAID		LAT/LONG		C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition											
BAYYR		453143.56N / 1212412.24W		Y		IF			AT/ABOVE 13000	AT 270K	BAYYR.HHOOD3
HHOOD		453146.12N / 1214254.05W		Y	FB	TF	270.30	13.14	9000B15000	AT 250K	
En Route Transition											
DUFUR		452543.22N / 1211213.48W		Y		IF					DUFUR.HHOOD3
RABBI		452813.68N / 1212455.39W		Y	FB	TF	285.75	09.28	AT/ABOVE 13000	AT 270K	
HHOOD		453146.12N / 1214254.05W		Y	FB	TF	285.75	13.13	9000B15000	AT 250K	
En Route Transition											
JKNOX		453102.65N / 1202440.73W		Y		IF			AT/ABOVE FL240		JKNOX.HHOOD3
MYTOE		453136.91N / 1210252.08W		Y	FB	TF	271.45	26.86	AT/ABOVE 17000		
BAYYR		453143.56N / 1212412.24W		Y	FB	TF	270.55	15.00	AT/ABOVE 13000	AT 270K	
HHOOD		453146.12N / 1214254.05W		Y	FB	TF	270.30	13.14	9000B15000	AT 250K	
En Route Transition											
JORAD		454919.00N / 1203941.00W		Y		IF			AT/ABOVE FL240		JORAD.HHOOD3
LUUND		454211.17N / 1210539.66W		Y	FB	TF	248.74	19.54	AT/ABOVE 17000		
YENTL		453639.08N / 1212530.00W		Y	FB	TF	248.42	14.98	AT/ABOVE 13000	AT 270K	
HHOOD		453146.12N / 1214254.05W		Y	FB	TF	248.33	13.16	9000B15000	AT 250K	
En Route Transition											
JOTBA		451000.70N / 1203112.27W		Y		IF			AT/ABOVE FL240		JOTBA.HHOOD3
SODDA		452302.63N / 1210510.62W		Y	FB	TF	298.72	27.30	AT/ABOVE 17000		

QUALITY
6
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QUALITY
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STAR (DATA RECORD)

Arrival Name HHOOD RNAV		Number THREE		STAR Computer Code HHOOD.HHOOD3		Superseded Number TWO		Dated 7 MAR 2013	Effective Date 25 JUNE 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
DUFUR	452543.22N / 1211213.48W	Y	FB	TF	298.37	05.64			
RABBI	452813.68N / 1212455.39W	Y	FB	TF	285.75	09.28	AT/ABOVE 13000	AT 270K	
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	285.75	13.13	9000B15000	AT 250K	
En Route Transition									
RABBI	452813.68N / 1212455.39W	Y		IF			AT/ABOVE 13000	AT 270K	RABBI.HHOOD3
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	285.75	13.13	9000B15000	AT 250K	
En Route Transition									
YENTL	453639.08N / 1212530.00W	Y		IF			AT/ABOVE 13000	AT 270K	YENTL.HHOOD3
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	248.33	13.16	9000B15000	AT 250K	
Common Route									
HHOOD	453146.12N / 1214254.05W	Y		IF			9000B15000	AT 250K	HHOOD.HHOOD3
BLRUN	453217.38N / 1215727.02W	Y	FB	TF	273.00	10.24			
Runway Transition									
BLRUN	453217.38N / 1215727.02W	Y		IF					
SSDEE	453613.85N / 1221621.75W	Y	FB	TF	286.64	13.86	9000B11000		
THEID	453723.35N / 1222158.96W	Y	FB	TF	286.40	04.11	8000B10000		
EMZEY	453835.03N / 1222747.97W	Y	FB	TF	286.35	04.25	7000B8000	AT 230K	
CIZZL	454132.02N / 1223600.67W	Y	FB	TF	297.18	06.47	AT/ABOVE 5000	AT 210K	
YORKY	454240.88N / 1223910.78W	Y	FB	TF	297.35	02.50	AT 5000		
NNUTT	454604.32N / 1224834.49W	Y	FO	TF	297.32	07.40			

QUALITY
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
KPDX:RWY 10B				FM	294.00				RECOMMENDED NAVAID: HLN
Runway Transition									
BLRUN	453217.38N / 1215727.02W	Y		IF					
SOOZN	453700.23N / 1221135.95W	Y	FO	TF	295.47	11.00	AT 8000	AT 210K	
KPDX:RWY 21				FM	295.00				RECOMMENDED NAVAID: HLN
Runway Transition									
BLRUN	453217.38N / 1215727.02W	Y		IF					
SHAFR	453233.99N / 1220225.15W	Y	FB	TF	274.56	03.50	AT 6700	AT 210K	
KPDX:RWY 28B									



**US Department of Transportation
Federal Aviation Administration**

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KPD	XK1	EH	HOOD	34	BAY	YR	010	BAY	YRK1	PC	0E	IF
SUSAP	KPD	XK1	EH	HOOD	34	BAY	YR	020	H	HOODK1	PC	0E	TF
SUSAP	KPD	XK1	EH	HOOD	34	DUF	UR	010	DUF	URK1	PC	0E	H IF
									+	13000	18000	270	
									B	150000	09000	250	
											18000		

QUALITY
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(11) Arrival Name HHOOD RNAV	(12) Number THREE	(13) STAR Computer Code HHOOD.HHOOD3	(14) Superseded Nr. TWO	(15) Dated 7 MAR 2013	(16) Effective Date 25 JUNE 2015
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**US Department of Transportation
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STAR (Data Record)

SUSAP	KPDXXK1EHHOOD34DUFUR	020RABBIK1PC0E		TF			+ 13000	270
SUSAP	KPDXXK1EHHOOD34DUFUR	030HHOODK1PC0EE		TF		B	1500009000	250
SUSAP	KPDXXK1EHHOOD34JKNOX	010JKNOXK1PC0E	H	IF			+ FL240	18000
SUSAP	KPDXXK1EHHOOD34JKNOX	020MYTOEK1PC0E		TF			+ 17000	
SUSAP	KPDXXK1EHHOOD34JKNOX	030BAYYRK1PC0E		TF			+ 13000	270
SUSAP	KPDXXK1EHHOOD34JKNOX	040HHOODK1PC0EE		TF		B	1500009000	250
SUSAP	KPDXXK1EHHOOD34JORAD	010JORADK1PC0E		IF			+ FL240	18000
SUSAP	KPDXXK1EHHOOD34JORAD	020LUUNDK1PC0E	H	TF			+ 17000	
SUSAP	KPDXXK1EHHOOD34JORAD	030YENTLK1PC0E		TF			+ 13000	270
SUSAP	KPDXXK1EHHOOD34JORAD	040HHOODK1PC0EE		TF		B	1500009000	250
SUSAP	KPDXXK1EHHOOD34JOTBA	010JOTBAK1PC0E	H	IF			+ FL240	18000
SUSAP	KPDXXK1EHHOOD34JOTBA	020SODDAK1PC0E		TF			+ 17000	
SUSAP	KPDXXK1EHHOOD34JOTBA	030DUFURK1PC0E	H	TF				
SUSAP	KPDXXK1EHHOOD34JOTBA	040RABBIK1PC0E		TF			+ 13000	270
SUSAP	KPDXXK1EHHOOD34JOTBA	050HHOODK1PC0EE		TF		B	1500009000	250
SUSAP	KPDXXK1EHHOOD34RABBI	010RABBIK1PC0E		IF			+ 13000	18000270
SUSAP	KPDXXK1EHHOOD34RABBI	020HHOODK1PC0EE		TF		B	1500009000	250
SUSAP	KPDXXK1EHHOOD34YENTL	010YENTLK1PC0E		IF			+ 13000	18000270
SUSAP	KPDXXK1EHHOOD34YENTL	020HHOODK1PC0EE		TF		B	1500009000	250
SUSAP	KPDXXK1EHHOOD35	010HHOODK1PC0E		IF		B	1500009000	18000250
SUSAP	KPDXXK1EHHOOD35	020BLRUNK1PC0EE		TF				
SUSAP	KPDXXK1EHHOOD36RW10B	010BLRUNK1PC0E		IF				18000
SUSAP	KPDXXK1EHHOOD36RW10B	020SSDEEK1PC0E		TF		B	1100009000	
SUSAP	KPDXXK1EHHOOD36RW10B	030THEIDK1PC0E		TF		B	1000008000	
SUSAP	KPDXXK1EHHOOD36RW10B	040EMZEYK1PC0E		TF		B	0800007000	230
SUSAP	KPDXXK1EHHOOD36RW10B	050CIZZLK1PC0E		TF			+ 05000	210
SUSAP	KPDXXK1EHHOOD36RW10B	060YORKKYK1PC0E		TF			05000	
SUSAP	KPDXXK1EHHOOD36RW10B	070NNUTTK1PC0EY		TF				
SUSAP	KPDXXK1EHHOOD36RW10B	080NNUTTK1PC0EE		FM HLN K1	251645502780	D		
SUSAP	KPDXXK1EHHOOD36RW21	010BLRUNK1PC0E		IF				18000
SUSAP	KPDXXK1EHHOOD36RW21	020SOOZNK1PC0EY		TF			08000	210
SUSAP	KPDXXK1EHHOOD36RW21	030SOOZNK1PC0EE		FM HLN K1	249843122790	D		
SUSAP	KPDXXK1EHHOOD36RW28B	010BLRUNK1PC0E		IF				18000
SUSAP	KPDXXK1EHHOOD36RW28B	020SHAFRK1PC0EE		TF			06700	210

[illegible]

SUSAP	KPDXK1GRW10L	0098251030	N45354128W122354419+0000	-0013700030129049150IIVDGI
SUSAP	KPDXK1GRW10R	0110001030	N45354253W122371730+0000	-0015800023000053150IIPDX3
SUSAP	KPDXK1GRW21	0060002090	N45353861W122360085-0100	-0014500026000032150VIGP01
SUSAP	KPDXK1GRW28L	0110002830	N45344985W122350205+0000	-0015800023000055150I1JMJ1
SUSAP	KPDXK1GRW28R	0098252830	N45350294W122340584+0000	-0013400031053554150I1IAP1

QUALITY
15
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(11) Arrival Name HHOOD RNAV	(12) Number THREE	(13) STAR Computer Code HHOOD.HHOOD3	(14) Superseded Nr. TWO	(15) Dated 7 MAR 2013	(16) Effective Date 25 JUNE 2015
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**US Department of Transportation
Federal Aviation Administration**
STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BAYYR	BAYYR	010		IF		FB				AA 13000	AT 270
	BAYYR	HHOOD	020		TF		FB				BT 1500009000	AT 250
	DUFUR	DUFUR	010		IF		FB					
	DUFUR	RABBI	020		TF		FB				AA 13000	AT 270
	DUFUR	HHOOD	030		TF		FB				BT 1500009000	AT 250
	JKNOX	JKNOX	010		IF		FB				AA FL240	
	JKNOX	MYTOE	020		TF		FB				AA 17000	
	JKNOX	BAYYR	030		TF		FB				AA 13000	AT 270
	JKNOX	HHOOD	040		TF		FB				BT 1500009000	AT 250
	JORAD	JORAD	010		IF		FB				AA FL240	
	JORAD	LUUND	020		TF		FB				AA 17000	
	JORAD	YENTL	030		TF		FB				AA 13000	AT 270
	JORAD	HHOOD	040		TF		FB				BT 1500009000	AT 250
	JOTBA	JOTBA	010		IF		FB				AA FL240	
	JOTBA	SODDA	020		TF		FB				AA 17000	
	JOTBA	DUFUR	030		TF		FB					
	JOTBA	RABBI	040		TF		FB				AA 13000	AT 270
	JOTBA	HHOOD	050		TF		FB				BT 1500009000	AT 250
	RABBI	RABBI	010		IF		FB				AA 13000	AT 270
	RABBI	HHOOD	020		TF		FB				BT 1500009000	AT 250
	YENTL	YENTL	010		IF		FB				AA 13000	AT 270
	YENTL	HHOOD	020		TF		FB				BT 1500009000	AT 250
		HHOOD	010		IF		FB				BT 1500009000	AT 250
		BLRUN	020		TF		FB					
	RW10B	BLRUN	010		IF		FB					
	RW10B	SSDEE	020		TF		FB				BT 1100009000	
	RW10B	THEID	030		TF		FB				BT 1000008000	
	RW10B	EMZEY	040		TF		FB				BT 0800007000	AT 230
	RW10B	CIZZL	050		TF		FB				AA 05000	AT 210
	RW10B	YORKY	060		TF		FB				AT 05000	
	RW10B	NNUTT	070		TF		FO					
	RW10B	NNUTT	080		FM		FB		278.0()			
	RW21	BLRUN	010		IF		FB					
	RW21	SOOZN	020		TF		FO				AT 08000	AT 210
	RW21	SOOZN	030		FM		FB		279.0()			
	RW28B	BLRUN	010		IF		FB					
	RW28B	SHAFR	020		TF		FB				AT 06700	AT 210

**(11)
Arrival Name**
HHOOD RNAV

**(12)
Number**
THREE

**(13)
STAR Computer Code**
HHOOD.HHOOD3

**(14)
Superseded Nr.**
TWO

**(15)
Dated**
7 MAR 2013

**(16)
Effective Date**
25 JUNE 2015

**US Department of Transportation
Federal Aviation Administration**
STAR (Data Record)

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HLN	N463624.56	W1115712.51	N4636.409	W11157.209
	BAYYR	N453143.56	W1212412.24	N4531.726	W12124.204
	BLRUN	N453217.38	W1215727.02	N4532.290	W12157.450
	CIZZL	N454132.02	W1223600.67	N4541.534	W12236.011
	DUFUR	N452543.22	W1211213.48	N4525.720	W12112.225
	EMZEY	N453835.03	W1222747.97	N4538.584	W12227.800
	HHOOD	N453146.12	W1214254.05	N4531.769	W12142.901
	JKNOX	N453102.65	W1202440.73	N4531.044	W12024.679
	JORAD	N454919.00	W1203941.00	N4549.317	W12039.683
	JOTBA	N451000.70	W1203112.27	N4510.012	W12031.205
	LUUND	N454211.17	W1210539.66	N4542.186	W12105.661
	MYTOE	N453136.91	W1210252.08	N4531.615	W12102.868
	NNUTT	N454604.32	W1224834.49	N4546.072	W12248.575
	RABBI	N452813.68	W1212455.39	N4528.228	W12124.923
	SHAFR	N453233.99	W1220225.15	N4532.567	W12202.419
	SODDA	N452302.63	W1210510.62	N4523.044	W12105.177
	SOOZN	N453700.23	W1221135.95	N4537.004	W12211.599
	SSDEE	N453613.85	W1221621.75	N4536.231	W12216.363
	THEID	N453723.35	W1222158.96	N4537.389	W12221.983
	YENTL	N453639.08	W1212530.00	N4536.651	W12125.500
	YORKY	N454240.88	W1223910.78	N4542.681	W12239.180
	RW10L	N453541.28	W1223544.19	N4535.688	W12235.737
	RW10R	N453542.53	W1223717.30	N4535.709	W12237.288
	RW21	N453538.61	W1223600.85	N4535.644	W12236.014
	RW28L	N453449.85	W1223502.05	N4534.831	W12235.034
	RW28R	N453502.94	W1223405.84	N4535.049	W12234.097

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW10L	00030	49
RW10R	00023	53
RW21	00026	32
RW28L	00023	55
RW28R	00031	54

QUALITY
15
CHECKED

(11)
Arrival Name
HHOOD RNAV

(12)
Number
THREE

(13)
STAR Computer Code
HHOOD.HHOOD3

(14)
Superseded Nr.
TWO

(15)
Dated
7 MAR 2013

(16)
Effective Date
25 JUNE 2015