

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
HYPER RNAV	SEVEN	DELRO.HYPER7	SIX	08/20/2015	15 SEP 2016

Transition Routes:

This is a corrected copy of the procedure published in NFDD 127.

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
ALBANY	ALB.HYPER7	ALB VORTAC	ALB VORTAC						
			ATWAN	190.74	60.57	FL180			
			FILGA	214.50	21.72	FL180			
			KEAVR	227.84	16.43	16000	2900		
			BOTLS	248.72	31.27	16000	2700		
			JETTZ	248.31	29.44	14000	2500		
			SARAA	250.58	26.77	14000	2800		
			LRP VOR/DME	234.19	26.64	14000	2800		
			JOANE	249.07	08.85	10000	2800		
			DELRO	248.97	09.12	8000	3300		
BARNES	BAF.HYPER7	BAF VORTAC	BAF VORTAC						
			BIGGO	241.93	20.00	17000	3800		
			YORKE	241.66	14.45	17000	3900		
			GANDE	241.55	28.43	17000	3900		
			KEAVR	235.47	27.21	16000	2900		
			BOTLS	248.72	31.27	16000	2700		
			JETTZ	248.31	29.44	14000	2500		
			SARAA	250.58	26.77	14000	2800		
			LRP VOR/DME	234.19	26.64	14000	2800		
			JOANE	249.07	08.85	10000	2800		
			DELRO	248.97	09.12	8000	3300		

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HYPER RNAV	SEVEN	DELRO.HYPER7	SIX	08/20/2015	15 SEP 2016
FILGA	FILGA.HYPER7	FILGA	FILGA		
		KEAVR	227.84	16.43	16000 2900 ←
		BOTLS	248.72	31.27	16000 2700
		JETTZ	248.31	29.44	14000 2500
		SARAA	250.58	26.77	14000 2800
		LRP VOR/DME	234.19	26.64	14000 2800
		JOANE	249.07	08.85	10000 2800
		DELRO	248.97	09.12	8000 3300
GANDE	GANDE.HYPER7	GANDE	GANDE		
		KEAVR	235.47	27.21	16000 2900 ←
		BOTLS	248.72	31.27	16000 2700
		JETTZ	248.31	29.44	14000 2500
		SARAA	250.58	26.77	14000 2800
		LRP VOR/DME	234.19	26.64	14000 2800
		JOANE	249.07	08.85	10000 2800
		DELRO	248.97	09.12	8000 3300
MODENA	MXE.HYPER7	MXE VORTAC	MXE VORTAC		
		DELRO	284.00	44.14	8000 3300
PARKE	PARKE.HYPER7	PARKE	PARKE		
		JETTZ	274.28	13.88	14000 2300
		SARAA	250.58	26.77	14000 2800
		LRP VOR/DME	234.19	26.64	14000 2800
		JOANE	249.07	08.85	10000 2800

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HYPER RNAV	SEVEN	DELRO.HYPER7	SIX	08/20/2015	15 SEP 2016
	DELRO	248.97	09.12	8000	3300
ROBBINSVILLE	RBV.HYPER7	RBV VORTAV	RBV VORTAC		
	HIKES	292.20	52.55	14000	2400
	LRP VOR/DME	253.37	34.81	14000	2400
	JOANE	249.07	08.85	10000	2800
	DELRO	248.97	09.12	8000	3300

ARRIVAL ROUTE DESCRIPTION:

KIAD: FROM DELRO ON TRACK 248.86/16.03 TO CROSS LIRCH AT 14000 (MEA 7000/MOCA 3500), THEN ON TRACK 248.68/4.81 TO BINNS (MEA 7000/MOCA 3500), THEN ON TRACK 248.61/11.62 TO CROSS HYPER AT 10000 AND AT 250 KIAS (MEA 7000/MOCA 3200).

LANDING KIAD RWY 01R/01C: FROM HYPER ON TRACK 211.45/17.62 TO CROSS SIGBE AT 7000 (MEA 7000/MOCA 3000), THEN ON TRACK 188.92/8.65 TO CROSS MOWAT AT 5000 (MEA 5000/MOCA 3500), THEN ON TRACK 188.90/6.10 TO CROSS HUSEL AT 4000 (MEA 4000/MOCA 3500), THEN ON TRACK 189.88/15.37 TO YACKK (MEA 4000/MOCA 2800), THEN ON TRACK 190.95/13.71 TO TICON (MEA 3000/MOCA 1800), THEN ON TRACK 190.95. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KIAD RWY 01L: FROM HYPER ON TRACK 220.19/16.56 TO CROSS CRAIN AT 6000 (MEA 6000/MOCA 3600), THEN ON TRACK 214.03/19.52 TO CROSS KUKSE AT 5000 (MEA 5000/MOCA 3600), THEN ON TRACK 191.11/12.77 TO ELISN (MEA 3000), THEN ON TRACK 190.55/18.10 TO MIKEJ (MEA 3000), THEN ON TRACK 190.55. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KIAD RWY 19L: FROM HYPER ON TRACK 215.91/17.67 TO CROSS OOGLE AT/BELOW 5000 (MEA 4000/MOCA 3000), THEN ON TRACK 216.68/4.01 TO CROSS LITEY AT 4000 (MEA 3000), THEN ON TRACK 190.68/3.00 TO YYANG (MEA 3000), THEN ON TRACK 190.67/4.65 TO DADEY (MEA 3000). EXPECT ILS OR LOC TO RWY 19L.

LANDING KIAD RWY 19C: FROM HYPER ON TRACK 218.64/22.17 TO CROSS COVUR AT 7000 (MEA 5000/MOCA 3500), THEN ON TRACK 190.81/3.00 TO DIMKE (MEA 4000/MOCA 3400), THEN ON TRACK 190.65/4.97 TO HOOSR (MEA 4000/MOCA 3400). EXPECT ILS OR LOC TO RWY 19C.

LANDING KIAD RWY 19R: FROM HYPER ON TRACK 220.19/16.56 TO CROSS CRAIN AT 6000 (MEA 6000/MOCA 3600), THEN ON TRACK 220.26/5.95 TO CROSS REXOE AT 6000 (MEA 5000/MOCA 3600), THEN ON TRACK 190.65/7.12 TO BEEZY (MEA 4000/MOCA 3400). EXPECT ILS OR LOC TO RWY 19R.

LANDING KNYG/KRMN/KHWY/KCJR/KEZF/KHEF: FROM DELRO ON TRACK 248.86/16.03 TO CROSS LIRCH AT 14000 (MEA 7000/MOCA 3500), THEN ON TRACK 248.68/4.81 TO BINNS (MEA 7000/MOCA 3500), THEN ON TRACK 248.61/11.62 TO CROSS HYPER AT 10000 AND AT 250 KIAS (MEA 7000/MOCA 3200), THEN ON TRACK 211.45/17.62 TO CROSS SIGBE AT 7000 (MEA 7000/MOCA 3000), THEN ON TRACK 188.92/8.65 TO CROSS MOWAT AT 5000 (MEA 5000/MOCA 3500), THEN ON TRACK 188.90/6.10 TO CROSS HUSEL AT 4000 (MEA 4000/MOCA 3500), THEN ON TRACK 189.88/15.37 TO YACKK (MEA 4000/MOCA 2800), THEN ON TRACK 190.95/13.71 TO TICON (MEA 3000/MOCA 1800), THEN ON TRACK 190.95. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KFRF/KOKV/KMRB/KJYO: FROM DELRO ON TRACK 248.86/16.03 TO CROSS LIRCH AT 14000 (MEA 7000/MOCA 3500), THEN ON TRACK 248.68/4.81 TO BINNS (MEA 7000/MOCA 3500), THEN ON TRACK 248.61/11.62 TO CROSS HYPER AT 10000 AND AT 250 KIAS (MEA 7000/MOCA 3200), THEN ON TRACK 232.92/8.92 TO PHATT (MEA 6000/MOCA 3900), THEN ON HEADING 230.00 OR AS ASSIGNED BY ATC. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PRODEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJET AND TURBOPROP AIRCRAFT ONLY.

NOTE: FOR AIRCRAFT CAPABLE OF 180 KIAS OR GREATER.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING PATTERNS AT: HYPER, E, LT, 248.61 INBOUND, 4 NM LEGS, 210 KIAS. BINNS, E, RT, 248.68 INBOUND, 7 NM LEGS, 265 KIAS.

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COMMUNICATIONS:

DULLES ATIS 134.85.

DULLES TOWER: 120.1/317.8 (RWY 1R/19L), 120.25/348.6 (RWY 1C/19C), 134.425/348.6 (RWY 1L/19R, 12/30)

POTOMAC APPROACH CONTROL: 133.0/288.35

AIRPORTS SERVED:

WASHINGTON DULLES INTL
CULPEPER RGNL
SHANNON
FRONT ROYAL-WARREN COUNTY
MANASSAS RGNL/HARRY P DAVIS FIELD
WARRENTON-FAUQUIER
LEESBURG EXECUTIVE
EASTERN WV RGNL/SHEPHERD FLD
QUANTICO MCAF /TURNER FIELD
WINCHESTER RGNL
STAFFORD RGNL

WASHINGTON, DC
CULPEPER, VA
FREDERICKSBURG, VA
FRONT ROYAL, VA
WASHINGTON, DC
WARRENTON, VA
LEESBURG, VA
MARTINSBURG, WV
QUANTICO, VA
WINCHESTER, VA
STAFFORD, VA

**LOST COMMUNICATIONS PROCEDURE:****REMARKS:**

THE AREA BETWEEN LITEY AND DADEY IS KNOWN AS A MOUNTAINOUS AREA BUT NOT PRECIPITOUS AND THERE HAVE BEEN NO REPORTABLE WIND ANOMALIES; THEREFORE WE ARE TAKING A 500' ROC REDUCTION FROM THE ROC TO MAKE THE MEA 3000.

HYPER SEVEN AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0).

REFERENCE MAGNETIC VARIATION = KIAD 10W/2000

CHART: R-4009

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CHANGES:

1. CHANGED LRP VORTAC TO LRP VOR/DME.
2. ADDED REMARK, "HYPER SEVEN AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS."

REASONS:

1. TACAN ANTENNA REPLACED WITH DME.
2. MINOR AMENDMENT DOES NOT QUALIFY AS A PERIODIC REVIEW.

08/3/16: THIS IS A CORRECTED COPY OF THE FORMS APPROVED ON 06/23/16.

1. CHANGED THE MOCA ON THE FILGA TRANSITION FROM FILGA TO KEAVR FROM 3000 TO 2900.
2. CHANGED THE MOCA ON THE GANDE TRANSITION FROM GANDE TO KEAVR FROM 3500 TO 2900.
3. UPDATED AIRPORT NAME FROM "ASTERN WV RGNL/SHEPERD FLD" TO "EASTERN WV RGNL/SHEPERD FLD".
4. CHANGED FIX MIKEJ FROM FB TO FO.

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STAR (DATA RECORDED)

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BAF VORTAC	420943.05N / 0724258.32W	Y		IF					BAF.HYPER7
BIGGO	415720.91N / 0730404.59W	Y	FB	TF	231.93	20.00			
YORKE	414821.75N / 0731914.12W	Y	FB	TF	231.66	14.45			
GANDE	413036.66N / 0734852.03W	Y	FB	TF	231.55	28.43			
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	225.47	27.21			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.71	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	238.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
En Route Transition									
ALB VORTAC	424450.21N / 0734811.47W	Y		IF					ALB.HYPER7
ATWAN	414415.03N / 0734914.27W	Y	FB	TF	180.74	60.57			
FILGA	412428.13N / 0740112.37W	Y	FB	TF	204.50	21.72			
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	217.84	16.43			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.72	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	238.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			

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Arrival Name HYPER RNAV	Number SEVEN	STAR Computer Code DELRO.HYPER7		Superseded Number SIX	Dated 08/20/2015	Effective Date 15 SEP 2016			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
FILGA	412428.13N / 0740112.37W	Y		IF					FILGA.HYPER7
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	217.84	16.43			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.72	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	238.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
En Route Transition									
GANDE	413036.66N / 0734852.03W	Y		IF					GANDE.HYPER7
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	225.47	27.21			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.72	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	237.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
En Route Transition									
PARKE	404059.46N / 0750435.32W	Y		IF					PARKE.HYPER7
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	264.28	13.88			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
En Route Transition									
RBV VORTAC	401208.65N / 0742942.09W	Y		IF					RBV.HYPER7
HIKES	402255.93N / 0753654.90W	Y	FB	TF	282.20	52.55			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	243.37	34.81			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
En Route Transition									
MXE VORTAC	395505.00N / 0754014.91W	Y		IF					MXE.HYPER7
DELRO	395755.71N / 0763731.24W	Y	FB	TF	274.00	44.14			
Common Route									
DELRO	395755.71N / 0763731.24W	Y		IF					DELRO.HYPER7
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03	AT 14000		
BINNS	394706.22N / 0770039.58W	Y	FB	TF	238.68	04.18			
HYPER	394102.16N / 0771330.34W	Y	FB	TF	238.61	11.62	AT 11000	AT 250K	
Common Route									
DELRO	395755.71N / 0763731.24W	Y		IF					DELRO.HYPER7
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03	AT 14000		
BINNS	394706.22N / 0770039.58W	Y	FB	TF	238.68	04.81			
HYPER	394102.16N / 0771330.34W	Y	FB	TF	238.61	11.62	AT 10000	AT 250K	
SIGBE	392437.20N / 0772149.20W	Y	FB	TF	201.45	17.62	AT 7000		
MOWAT	391557.60N / 0772136.60W	Y	FB	TF	178.92	08.65	AT 5000		

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
HUSEL	390951.60N / 0772127.60W	Y	FB	TF	178.90	06.10	AT 4000		
YACKK	385428.80N / 0772125.20W	Y	FB	TF	179.88	15.37			
TICON	384045.60N / 0772142.60W	Y	FO	TF	180.95	13.71			
KCJR, KEZF, KHEF, KHWW, KNYG, KRMN				FM	180.95				RECOMMENDED NAVAID: ADW VORTAC
Common Route									
DELRO	395755.71N / 0763731.24W	Y		IF					DELRO.HYPER7
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03	AT 14000		
BINNS	394706.22N / 0770039.58W	Y	FB	TF	238.68	04.81			
HYPER	394102.16N / 0771330.34W	Y	FB	TF	238.61	11.62	AT 10000	AT 250K	
PHATT	393429.51N / 0772121.90W	Y	FO	TF	222.92	08.92			
KFRR, KJYO, KMRB, KOKV				VM	220.00				
Runway Transitions									
HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
SIGBE	392437.20N / 0772149.20W	Y	FB	TF	201.45	17.62	AT 7000		
MOWAT	391557.60N / 0772136.60W	Y	FB	TF	178.92	08.65	AT 5000		
HUSEL	390951.60N / 0772127.60W	Y	FB	TF	178.90	06.10	AT 4000		
YACKK	385428.80N / 0772125.20W	Y	FB	TF	179.88	15.37			
TICON	384045.60N / 0772142.60W	Y	FO	TF	180.95	13.71			
KIAD: RWY 01C, RWY 01R				VM	180.95				RECOMMENDED NAVAID: ADW VORTAC
Runway Transitions									
HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
CRAIN	392642.06N / 0772415.46W	Y	FB	TF	210.19	16.56	AT 6000		
KUKSE	390850.86N / 0773428.65W	Y	FB	TF	204.03	19.52	AT 5000		

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
ELISN	385604.35N / 0773447.64W	Y	FB	TF	181.11	12.77			
MIKEJ	383757.45N / 0773500.92W	Y	FO	TF	180.55	18.10			
KIAD: RWY 01L				FM	180.55				RECOMMENDED NAVAID: ADW VORTAC
Runway Transitions									
HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
OOGLE	392507.23N / 0772328.21W	Y	FB	TF	205.91	17.67	AT/BELOW 5000		
LITEY	392131.86N / 0772547.63W	Y	FB	TF	206.68	04.01	AT 4000		
YYANG	391832.01N / 0772550.37W	Y	FB	TF	180.68	03.00			
DADEY	391352.68N / 0772554.59W	Y	FB	TF	180.67	04.65			
KIAD: RWY 19L									
Runway Transitions									
HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
COVUR	392132.66N / 0772712.49W	Y	FB	TF	208.64	22.17	AT 7000		
DIMKE	391832.78N / 0772715.78W	Y	FB	TF	180.81	03.00			
HOOSR	391334.29N / 0772720.15W	Y	FB	TF	180.65	04.97			
KIAD: RWY 19C									
Runway Transitions									
HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
CRAIN	392642.06N / 0772415.46W	Y	FB	TF	210.19	16.56	AT 6000		
REXOE	392133.17N / 0772807.54W	Y	FB	TF	210.26	05.95	AT 6000		
BEEZY	391425.81N / 0772813.81W	Y	FB	TF	180.65	07.12			
KIAD: RWY 19R									