

US Department of Transportation  
Federal Aviation Administration

## STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

### (1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP/ FIX/NAVAID	(d) To RNAV WP/ FIX/NAVAID	(e) Mag Course/ Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
FARGO	FAR.GEP8	FAR VORTAC	GOLLF	104.43/144.28	FL240			
BRAINERD	BRD.GEP8	BRD VORTAC	GOLLF	155.96/38.21	9000	4000		
ALEXANDRIA	AXN.GEP8	AXN VOR/DME	GOLLF	093.27/65.45	7000	3300		
This is a corrected copy of the procedure published in NFDD 128.								

**(2) Arrival Route Description:** FROM OVER GOLLF ON GEP R-333.42 TO GEP VORTAC, THEN ON GEP R-153.00 TO VYKES, THENCE... LANDING MSP RWY 30L/R: DEPART VYKES HEADING 120.00 FOR RADAR VECTORS TO FINAL APPROACH COURSE. LANDING MSP RWY 35: DEPART VYKES HEADING 185.00 FOR RADAR VECTORS TO FINAL APPROACH COURSE. LANDING ALL OTHER MSP RWYS: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE. ALL OTHER AIRPORTS: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

### (3) Procedural Data Notes:

GOPHER: VERTICAL NAVIGATION PLANNING INFORMATION: TURBOJETS LANDING MSP RWY 30L/R: EXPECT CLEARANCE TO CROSS AT 11,000. OLLEE: VERTICAL NAVIGATION PLANNING INFORMATION: TURBOJETS LANDING MSP RWY 4, 12L/R, 17, 22: EXPECT CLEARANCE TO CROSS AT 11,000. TURBOJETS LANDING ALL OTHER AIRPORTS: EXPECT CLEARANCE TO CROSS AT 8,000, TURBOPROPS LANDING MSP ALL RUNWAYS: EXPECT CLEARANCE TO CROSS AT 7,000. TURBOPROPS LANDING ALL OTHER AIRPORTS: EXPECT CLEARANCE TO CROSS AT 7,000. NOTE: RADAR REQUIRED. NOTE: DME REQUIRED. NOTE: ALEXANDRIA TRANSITION: TURBOPROPS ONLY.

### (4) Fixes and/or Holding Patterns:

CHART: BRD VORTAC, HOLD NW, LT 156.00 INBOUND CHART: GOLLF GEP 39.00 DME , HOLD NW, LT 153.42 INBOUND

### (5) Communications:

MINNEAPOLIS APPROACH CONTROL AND ATIS

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
GOPHER	EIGHT	GEP.GEP8	SEVEN	17 OCT 2013	20 AUG 2015

FAA Form 7100-4 (7/02)

QUALITY  
4

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<b>(12) Airports Served</b>					
<b>Airport Name</b> MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			<b>City/State</b> MINNEAPOLIS, MN		
<b>Airport Name</b> AIRLAKE			<b>City/State</b> MINNEAPOLIS, MN		
<b>Airport Name</b> ANOKA COUNTY-BLAINE AIRPORT (JANES FIELD)			<b>City/State</b> MINNEAPOLIS, MN		
<b>Airport Name</b> CRYSTAL			<b>City/State</b> MINNEAPOLIS, MN		
<b>Airport Name</b> FLYING CLOUD			<b>City/State</b> MINNEAPOLIS, MN		
<b>Airport Name</b> ST. PAUL DOWNTOWN HOLMAN FIELD			<b>City/State</b> ST.PAUL, MN		
<b>(13) Lost Communications Procedure:</b>					
<b>(14) Remarks:</b>					
<b>(15) Additional Flight Data:</b> CHART; DLH VORTAC, WENNR, SAUGR, OLLEE.					
<b>(6) Arrival Name</b> GOPHER	<b>(7) Number</b> EIGHT	<b>(8) STAR Computer Code</b> GEP.GEP8	<b>(9) Superseded Nr.</b> SEVEN	<b>(10) Dated</b> 17 OCT 2013	<b>(11) Effective Date</b> 20 AUG 2015

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**(16) Continuation:****(17) Changes:**

1. ADD MOCA'S WHERE REQUIRED.
2. REMOVED BRDIE INT AND MORA (JMR) NDB.
3. UPDATE LANDING RUNWAY VERBIAGE.
4. CHANGED AXN TO GOLLF MEA FROM 3000 TO 7000.

**(18) Reasons for Changes:**

1. REQUIRED AS PER 7100.9E.
- 2, 3. ATC REQUEST
4. REQUIRED FOR ESV.

3/28/2015: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 2/18/2014.

1. MOCA BRD TO GOLLF INCREASED FROM 2800 TO 4000.
2. MEA BRD TO GOLLF INCREASED FROM 4000 TO 9000.

7-8-2015: THIS IA A CORRECTED COPY OF THE FORM APPROVED ON 3-28-2015.

CHANGED BRD VORTAC TO GOLLF DISTANCE FROM 39.21 TO 38.21, CHANGED AXN VORTAC TO AXN VOR/DME.

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**STAR (Data Record)**

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	AXN	AXN	010		IF		FB					
	AXN	GOLLF	020		TF		FB					
	BRD	BRD	010		IF		FB					
	BRD	GOLLF	020		TF		FB					
	FAR	FAR	010		IF		FB					
	FAR	WENNR	020		TF		FB					
	FAR	GOLLF	030		TF		FB					
	ALL	GOLLF	010		IF		FB					
	ALL	OLLEE	020		TF		FB					
	ALL	SAUGR	030		TF		FB					
	ALL	GEP	040		TF		FB					
	ALL	VYKES	050		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AXN	N455730.20	W0951357.49	N4557.503	W09513.958
	BRD	N462053.81	W0940133.54	N4620.897	W09401.559
	FAR	N464512.02	W0965104.74	N4645.200	W09651.079
	GEP	N450844.47	W0932223.45	N4508.741	W09322.391
	GOLLF	N454513.09	W0934158.21	N4545.218	W09341.970
	OLLEE	N453207.89	W0933453.49	N4532.132	W09334.892
	SAUGR	N452054.45	W0932852.21	N4520.908	W09328.870
	VYKES	N450212.00	W0931851.00	N4502.200	W09318.850
	WENNR	N461440.19	W0951155.25	N4614.670	W09511.921
	RW09	N450841.35	W0931312.28	N4508.689	W09313.205
	RW18	N450906.08	W0931235.57	N4509.101	W09312.593
	RW27	N450840.74	W0931202.53	N4508.679	W09312.042
	RW36	N450818.15	W0931236.37	N4508.303	W09312.606

RUNWAY DATA	RWY	THRESHOLD	TCH
		ELEVATION	
	RW09	00905	40
	RW18	00912	50
	RW27	00909	50
	RW36	00910	50

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	BRD	BRD	010		IF		FB					
	BRD	GOLLF	020		TF		FB					
	FAR	FAR	010		IF		FB					
	FAR	WENNR	020		TF		FB					
	FAR	GOLLF	030		TF		FB					
	ALL	GOLLF	010		IF		FB					
	ALL	OLLEE	020		TF		FB					
	ALL	SAUGR	030		TF		FB					
	ALL	GEP	040		TF		FB					
	ALL	VYKES	050		TF		FB					

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	GEP	N450844.47	W0932223.45	N4508.741	W09322.391
	GOLLF	N454513.09	W0934158.21	N4545.218	W09341.970
	OLLEE	N453207.89	W0933453.49	N4532.132	W09334.892
	SAUGR	N452054.45	W0932852.21	N4520.908	W09328.870
	VYKES	N450212.00	W0931851.00	N4502.200	W09318.850
	WENNR	N461440.19	W0951155.25	N4614.670	W09511.921
	RW10L	N444946.80	W0932754.21	N4449.780	W09327.904
	RW10R	N444944.59	W0932814.55	N4449.743	W09328.243
	RW18	N444944.71	W0932715.61	N4449.745	W09327.260
	RW28L	N444935.16	W0932706.46	N4449.586	W09327.108
	RW28R	N444939.45	W0932701.12	N4449.658	W09327.019
	RW36	N444918.29	W0932719.52	N4449.305	W09327.325

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW10L	00906	39
	RW10R	00896	42
	RW18	00899	45
	RW28L	00898	55

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RW28R	00899	45
RW36	00905	27

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	BRD	BRD	010		IF		FB					
	BRD	GOLLF	020		TF		FB					
	FAR	FAR	010		IF		FB					
	FAR	WENNR	020		TF		FB					
	FAR	GOLLF	030		TF		FB					
	ALL	GOLLF	010		IF		FB					
	ALL	OLLEE	020		TF		FB					
	ALL	SAUGR	030		TF		FB					
	ALL	GEP	040		TF		FB					
	ALL	VYKES	050		TF		FB					

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	FAR	N464512.02	W0965104.74	N4645.200	W09651.079
	GEP	N450844.47	W0932223.45	N4508.741	W09322.391
	GOLLF	N454513.09	W0934158.21	N4545.218	W09341.970
	OLLEE	N453207.89	W0933453.49	N4532.132	W09334.892
	SAUGR	N452054.45	W0932852.21	N4520.908	W09328.870
	VYKES	N450212.00	W0931851.00	N4502.200	W09318.850
	WENNR	N461440.19	W0951155.25	N4614.670	W09511.921
	RW12	N443749.62	W0931406.30	N4437.827	W09314.105
	RW30	N443732.75	W0931320.80	N4437.546	W09313.347

RUNWAY DATA	THRESHOLD ELEVATION	TCH
	RWY	
	RW12	00961 45
	RW30	00952 37

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	AXN	GOLLF	020		TF		FB					
	BRD	BRD	010		IF		FB					
	BRD	GOLLF	020		TF		FB					
	FAR	FAR	010		IF		FB					
	FAR	WENNR	020		TF		FB					
	FAR	GOLLF	030		TF		FB					
	ALL	GOLLF	010		IF		FB					
	ALL	OLLEE	020		TF		FB					
	ALL	SAUGR	030		TF		FB					
	ALL	GEP	040		TF		FB					
	ALL	VYKES	050		TF		FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AXN	N455730.20	W0951357.49	N4557.503	W09513.958
	BRD	N462053.81	W0940133.54	N4620.897	W09401.559
	FAR	N464512.02	W0965104.74	N4645.200	W09651.079
	GEP	N450844.47	W0932223.45	N4508.741	W09322.391
	GOLLF	N454513.09	W0934158.21	N4545.218	W09341.970
	OLLEE	N453207.89	W0933453.49	N4532.132	W09334.892
	SAUGR	N452054.45	W0932852.21	N4520.908	W09328.870
	VYKES	N450212.00	W0931851.00	N4502.200	W09318.850
	WENNR	N461440.19	W0951155.25	N4614.670	W09511.921
	RW06L	N450343.10	W0932127.22	N4503.718	W09321.454
	RW14L	N450353.98	W0932124.83	N4503.900	W09321.414
	RW14R	N450352.18	W0932128.16	N4503.870	W09321.469
	RW24R	N450353.27	W0932108.03	N4503.888	W09321.134
	RW32L	N450326.98	W0932059.79	N4503.450	W09320.997
	RW32R	N450328.79	W0932056.47	N4503.480	W09320.941

RUNWAY DATA	RWY	THRESHOLD	TCH
		ELEVATION	
	RW06L	00869	27
	RW14L	00868	40
	RW14R	00868	50
	RW24R	00868	29

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RW32L	00867	50
RW32R	00867	34

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	AXN	AXN	010		IF		FB					
	AXN	GOLLF	020		TF		FB					
	BRD	BRD	010		IF		FB					
	BRD	GOLLF	020		TF		FB					
	FAR	FAR	010		IF		FB					
	FAR	WENNR	020		TF		FB					
	FAR	GOLLF	030		TF		FB					
		GOLLF	010		IF		FB					
		OLLEE	020		TF		FB					
		SAUGR	030		TF		FB					
		GEP	040		TF		FB					
		VYKES	050		TF		FO					
	RW30B	VYKES	010		IF		FB					
	RW30B	KMSP	020		VM		FB		120.0()			
	RW35	VYKES	010		IF		FB					
	RW35	KMSP	020		VM		FB		185.0()			

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	AXN	N455730.20	W0951357.49	N4557.503	W09513.958
	BRD	N462053.81	W0940133.54	N4620.897	W09401.559
	FAR	N464512.02	W0965104.74	N4645.200	W09651.079
	GEP	N450844.47	W0932223.45	N4508.741	W09322.391
	GOLLF	N454513.09	W0934158.21	N4545.218	W09341.970
	OLLEE	N453207.89	W0933453.49	N4532.132	W09334.892
	SAUGR	N452054.45	W0932852.21	N4520.908	W09328.870
	VYKES	N450212.00	W0931851.00	N4502.200	W09318.850
	WENNR	N461440.19	W0951155.25	N4614.670	W09511.921
	RW30L	N445224.68	W0931204.27	N4452.411	W09312.071
	RW30R	N445253.54	W0931140.67	N4452.892	W09311.678
	RW35	N445158.24	W0931411.92	N4451.971	W09314.199

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30L	00814	55
	RW30R	00820	55
	RW35	00833	55


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	BRD	GOLLF	020		TF		FB					
	FAR	FAR	010		IF		FB					
	FAR	WENNR	020		TF		FB					
	FAR	GOLLF	030		TF		FB					
	ALL	GOLLF	010		IF		FB					
	ALL	OLLEE	020		TF		FB					
	ALL	SAUGR	030		TF		FB					
	ALL	GEP	040		TF		FB					
	ALL	VYKES	050		TF		FB					

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	OLLEE	N453207.89	W0933453.49	N4532.132	W09334.892
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	VYKES	N450212.00	W0931851.00	N4502.200	W09318.850
	WENNR	N461440.19	W0951155.25	N4614.670	W09511.921
	RW09	N445605.51	W0930405.24	N4456.092	W09304.087
	RW13	N445621.07	W0930354.24	N4456.351	W09303.904
	RW14	N445625.31	W0930401.44	N4456.422	W09304.024
	RW27	N445605.09	W0930314.62	N4456.085	W09303.244
	RW31	N445556.87	W0930310.23	N4455.948	W09303.171
	RW32	N445538.09	W0930316.66	N4455.635	W09303.278

RUNWAY DATA	RWY	THRESHOLD	TCH
		ELEVATION	
	RW09	00701	50
	RW13	00705	40
	RW14	00705	53
	RW27	00701	40

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RW31	00701	45
RW32	00704	40

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