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) Magnetic Course/ Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
REDWOOD FALLS	RWF.SKETR**5**	RWF VOR/DME	SKETR /RWF 34.00 DME	064.69/34.00	7000	2600		

(2) Arrival Route Description: FROM OVER SKETR/RWF 34.00 DME VIA RWF R-065 TO SHONN/RWF 44.00 DME (MEA 7000, MOCA 2300), THEN VIA MSP R-251 TO NORWD/MSP 30.00 DME (MEA 7000, MOCA 2200), THEN VIA MSP R-251 TO JAEDN/MSP 21.89 DME (MEA 7000, MOCA 2500), THEN VIA MSP R-251 TO MONKY/MSP 9.00 DME (MEA 7000, MOCA 2400), THENCE...

LANDING MSP RWY 30L/R: DEPART MONKY/MSP 9.00 DME HEADING 120.00 FOR RADAR VECTORS TO FINAL APPROACH COURSE.
LANDING MSP RWY 35: DEPART MONKY/MSP 9.00 DME VIA MSP R-251 TO CHYMP/MSP 7.50 DME (MEA 7000, MOCA 2400) THEN VIA HEADING 170 FOR RADAR VECTORS TO FINAL APPROACH COURSE

ALL OTHER RUNWAYS: VIA RADAR VECTORS TO FINAL APPROACH COURSE

(3) Procedural Data Notes:
RADAR REQUIRED; DME REQUIRED

VERTICAL NAVIGATION PLANNING INFORMATION:
TURBOJET AIRCRAFT: EXPECT CLEARANCE TO CROSS SHONN/RWF 44.00 DME AT 11,000 FEET
TURBOPROP AIRCRAFT: EXPECT CLEARANCE TO CROSS SHONN/RWF 44.00 DME AT 7000 FEET.

(4) Fixes and/or Holding Patterns: CHART: SKETR/RWF 34.00 DME HOLD SW, LT, 064.69 INBOUND
CHART: RWF VOR/DME HOLD SW, LT, 064.69 INBOUND

(5) Communications: MINNEAPOLIS APP CON, MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN ATIS

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
SKETR	**FIVE**	SKETR.SKETR**5**	**FOUR**	**5 APRIL 2012**	10 Jan 2013

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(12) Airports Served	
Airport Name MINNEAPOLIS-ST PAUL INTL/WOLD CHAMBERLAIN	**City/State** MINNEAPOLIS, MN
Airport Name	**City/State**
Airport Name	**City/State**
Airport Name	**City/State**
Airport Name	**City/State**
Airport Name	**City/State**

(13) Lost Communications Procedure:

(14) Remarks:

OBSTACLE EVALUATION CONDUCTED FROM JAEDN TO CHYMP AND JAEDN TO MONKY TREATED AS A SINGLE SEGMENT – SAME CONTROLLING OBSTACLE APPLIED

(15) Additional Flight Data:

CHART: LAT/LON DATA FOR REDWOOD FALLS (RWF) VOR/DME, SKETR, SHONN, NORWD, JAEDN, MONKY, CHYMP

QUALITY 1 CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
SKETR	FIVE	SKETR.SKETR5	FOUR	05 APRIL 2012	10 Jan 2013

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STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        MSP   K3011530VDLW N44534740W093141153    N44534740W093141153E0020008331     NARMINNEAPOLIS
        SUSAD        RWF   K3011330VDHA N44280219W095074163    N44280219W095074163E0070010612     NARREDWOOD FALLS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CHYMP K30    R     N44513555W093241658                    E0007     NAR          CHYMP
        SUSAEAENRT   JAEDN K30    R     N44472015W093433540                    E0010     NAR          JAEDN
        SUSAEAENRT   MONKY K30    R     N44510910W093261753                    E0007     NAR          MONKY
        SUSAEAENRT   NORWD K30    R     N44445477W093542723                    E0011     NAR          NORWD
        SUSAEAENRT   SHONN K30    R   L N44413639W094090794                    E0013     NAR          SHONN
        SUSAEAENRT   SKETR K30    R   B N44383399W094222931                    E0015     NAR          SKETR

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMSPK3AMSP     0     110YHN44525510W093131840E002000842         1800018000C    MNAR    MINNEAPOLIS-ST PAUL INTL/WOLD-

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMSPK3ESKETR51RWF   010RWF  K3D 0V  H    IF                                                18000
        SUSAP KMSPK3ESKETR51RWF   020SKETRK3EA0EE H    TF                    06470340
        SUSAP KMSPK3ESKETR52      010SKETRK3EA0E  H    IF                                                18000
        SUSAP KMSPK3ESKETR52      020SHONNK3EA0E       TF                    06500100
        SUSAP KMSPK3ESKETR52      030NORWDK3EA0E       TF                    0710
        SUSAP KMSPK3ESKETR52      040JAEDNK3EA0E       TF                    07100081
        SUSAP KMSPK3ESKETR52      050MONKYK3EA0EE      TF                    07100129
        SUSAP KMSPK3ESKETR53RW04  010MONKYK3EA0E       IF                                                18000
        SUSAP KMSPK3ESKETR53RW04  020MONKYK3EA0EE      FM MSP K3      251000900710    D
        SUSAP KMSPK3ESKETR53RW12B 010MONKYK3EA0E       IF                                                18000
        SUSAP KMSPK3ESKETR53RW12B 020MONKYK3EA0EE      FM MSP K3      251000900710    D
        SUSAP KMSPK3ESKETR53RW17  010MONKYK3EA0E       IF                                                18000
        SUSAP KMSPK3ESKETR53RW17  020MONKYK3EA0EE      FM MSP K3      251000900710    D
        SUSAP KMSPK3ESKETR53RW22  010MONKYK3EA0E       IF                                                18000
        SUSAP KMSPK3ESKETR53RW22  020MONKYK3EA0EE      FM MSP K3      251000900710    D
        SUSAP KMSPK3ESKETR53RW30B 010MONKYK3EA0E       IF                                                18000
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QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
SKETR	FIVE	SKETR.SKETR5	FOUR	05 APR 2012	10 Jan 2013

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SUSAP KMSPK3ESKETR53RW30B 020KMSP K3PA0AE      VM                    1200
SUSAP KMSPK3ESKETR53RW35  010MONKYK3EA0E       IF                                          18000
SUSAP KMSPK3ESKETR53RW35  020CHYMPK3EA0E       TF                    07100015
SUSAP KMSPK3ESKETR53RW35  030KMSP K3PA0AE  R   VMY                   1700
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                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMSPK3GRW04     0110060430 N44523098W093140273+0000    +0226300832155075150RIAPL0
        SUSAP KMSPK3GRW12L    0082001193 N44533463W093131557-0200    +0228400839000052150IIPJL3
        SUSAP KMSPK3GRW12R    0100001193 N44531604W093140287-0300    +0229400842000056200IIHKZ3
        SUSAP KMSPK3GRW17     0080001675 N44531591W093143211-0100    +0229000840000060150VITJZ0
        SUSAP KMSPK3GRW22     0110062230 N44533001W093123967+0000    +0225200828100055150RISIJ0
        SUSAP KMSPK3GRW30L    0100002994 N44522468W093120427+0300    +0220900814000058200IIMSP2
        SUSAP KMSPK3GRW30R    0082002994 N44525354W093114067+0200    +0222600820020055150IIINN1
        SUSAP KMSPK3GRW35     0080003475 N44515824W093141192-0100    +0226800833000053150IIBMA3
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QUALITY CHECKED 1

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
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ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RWF	RWF	010		IF		FB					
	RWF	SKETR	020		TF		FB		064.7()	034.0		
		SKETR	010		IF		FB					
		SHONN	020		TF		FB		065.0()	010.0		
		NORWD	030		TF		FB		071.0()			
		JAEDN	040		TF		FB		071.0()	008.1		
		MONKY	050		TF		FB		071.0()	012.9		
	RW04	MONKY	010		IF		FB					
	RW04	MONKY	020		FM		FB		071.0()			
	RW12B	MONKY	010		IF		FB					
	RW12B	MONKY	020		FM		FB		071.0()			
	RW17	MONKY	010		IF		FB					
	RW17	MONKY	020		FM		FB		071.0()			
	RW22	MONKY	010		IF		FB					
	RW22	MONKY	020		FM		FB		071.0()			
	RW30B	MONKY	010		IF		FB					
	RW30B	KMSP	020		VM		FB		120.0()			
	RW35	MONKY	010		IF		FB					
	RW35	CHYMP	020		TF		FB		071.0()	001.5		
	RW35	KMSP	030		VM	R	FB		170.0()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MSP	N445347.40	W0931411.53	N4453.790	W09314.192
	RWF	N442802.19	W0950741.63	N4428.037	W09507.694
	CHYMP	N445135.55	W0932416.58	N4451.593	W09324.276
	JAEDN	N444720.15	W0934335.40	N4447.336	W09343.590
	MONKY	N445109.10	W0932617.53	N4451.152	W09326.292
	NORWD	N444454.77	W0935427.23	N4444.913	W09354.454
	SHONN	N444136.39	W0940907.94	N4441.607	W09409.132
	SKETR	N443833.99	W0942229.31	N4438.567	W09422.489
	RW04	N445230.98	W0931402.73	N4452.516	W09314.046
	RW12L	N445334.63	W0931315.57	N4453.577	W09313.260
	RW12R	N445316.04	W0931402.87	N4453.267	W09314.048
	RW17	N445315.91	W0931432.11	N4453.265	W09314.535
	RW22	N445330.01	W0931239.67	N4453.500	W09312.661
	RW30L	N445224.68	W0931204.27	N4452.411	W09312.071
	RW30R	N445253.54	W0931140.67	N4452.892	W09311.678

QUALITY CHECKED

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RW35	N445158.24	W0931411.92	N4451.971	W09314.199

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW04	00832	75
RW12L	00839	52
RW12R	00842	56
RW17	00840	60
RW22	00828	55
RW30L	00814	58
RW30R	00820	55
RW35	00833	53

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