

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
LYNCHBURG	LYH.WHTTL2	LYH VORTAC FREON	FREON WHTTL	236.00/65.75 201.82/49.27	16000 16000			

(2) Arrival Route Description: FROM WHTTL ON TRACK 243.80/30.00 NM TO ROLNN (MEA 8000), THEN ON TRACK 243.49/31.00 NM TO CEMUM (MEA 8000), THEN ON TRACK 243.18/19.00 NM TO SPA VORTAC (MEA 4000) THEN ON HEADING 243.18, EXPECT RADAR VECTORS.

(3) Procedural Data Notes: CHART NOTES: DME/DME/IRU OR GPS REQUIRED. RNAV 1. RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT. TURBOJET/TURBOPROP AIRCRAFT ONLY. EXPECT TO CROSS ROLNN AT 15000. EXPECT TO CROSS CEMUM AT 10000.

(4) Fixes and/or Holding Patterns: NONE.

(5) Communications: GPS ATIS, APP CON.

(6) Arrival Name WHTTL RNAV	(7) Number TWO	(8) STAR Computer Code WHTTL.WHTTL2	(9) Superseded Nr. ONE	(10) Dated 29 JUL 2010	(11) Effective Date 10 Jan 2013
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(12) Airports Served

Airport Name DONALDSON CENTER	City/State GREENVILLE, SC
Airport Name GREENVILLE DOWNTOWN	City/State GREENVILLE, SC
Airport Name GREENVILLE-SPARTANBURG INTL	City/State GREER, SC
Airport Name PICKENS COUNTY	City/State PICKENS, SC
Airport Name SPARTANBURG DOWNTOWN MEMORIAL	City/State SPARTANBURG, SC
Airport Name	City/State

(13) Lost Communications Procedure: STANDARD.**(14) Remarks: CRITICAL DMEs REMOVED FROM PROCEDURE PER NATIONAL INITIATIVE. THIS IS NOT CONSIDERED A CHANGE TO THE PROCEDURE.****(15) Additional Flight Data: REFERENCE MAG VAR: KGSP 06W/00.
DME/DME ASSESSMENT: SAT (RNP 2.0).**

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US Department of Transportation Federal Aviation Administration							RNAV STAR (Data Record)			
(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS	
En Route Transition										
LYH VORTAC	371516.48N / 0791410.97W	Y		IF					LYH.WHTTL2	
FREON	363241.03N / 0801641.59W	Y	FB	TF	230.00	65.75				
WHTTL	354511.55N / 0803311.44W	Y	FB	TF	195.82	49.27				
Common Route										
WHTTL	354511.55N / 0803311.44W	Y		IF						
ROLNN	352906.79N / 0810416.48W	Y	FB	TF	237.80	30.00			Expect to cross at 15000	
CEMUM	351221.46N / 0813610.66W	Y	FB	TF	237.49	31.00			Expect to cross at 10000	
SPA VORTAC	350201.05N / 0815537.24W	Y	FO	TF	237.18	19.00				
				VM	237.18				QUALITY 1 CHECKED	
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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
	LYH	LYH	010		IF		FB					
	LYH	FREON	020		TF		FB	1.0	236.0 ()	065.8		
	LYH	WHTTL	030		TF		FB	1.0	201.8 ()	049.3		
	ALL	WHTTL	010		IF		FB					
	ALL	ROLNN	020		TF		FB	1.0	243.8 ()	030.0		
	ALL	CEMUM	030		TF		FB	1.0	243.5 ()	031.0		
	ALL	SPA	040		TF		FO	1.0	243.2 ()	019.0		
	ALL	KGYH	050		VM		FB		243.2 ()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	LYH	N371516.48	W0791410.97	N3715.275	W07914.183
	SPA	N350201.05	W0815537.24	N3502.018	W08155.621
	CEMUM	N351221.46	W0813610.66	N3512.358	W08136.178
	FREON	N363241.03	W0801641.59	N3632.684	W08016.693
	ROLNN	N352906.79	W0810416.48	N3529.113	W08104.275
	WHTTL	N354511.55	W0803311.44	N3545.193	W08033.191
	RW05	N344459.61	W0822305.89	N3444.994	W08223.098
	RW23	N344600.24	W0822204.29	N3446.004	W08222.072

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00956	52
	RW23	00919	52

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	LYH	LYH	010		IF		FB					
	LYH	FREON	020		TF		FB	1.0	236.0()	065.8		
	LYH	WHTTL	030		TF		FB	1.0	201.8()	049.3		
	ALL	WHTTL	010		IF		FB					
	ALL	ROLNN	020		TF		FB	1.0	243.8()	030.0		
	ALL	CEMUM	030		TF		FB	1.0	243.5()	031.0		
	ALL	SPA	040		TF		FO	1.0	243.2()	019.0		
	ALL	KGMU	050		VM		FB		243.2()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	LYH	N371516.48	W0791410.97	N3715.275	W07914.183
	SPA	N350201.05	W0815537.24	N3502.018	W08155.621
	CEMUM	N351221.46	W0813610.66	N3512.358	W08136.178
	FREON	N363241.03	W0801641.59	N3632.684	W08016.693
	ROLNN	N352906.79	W0810416.48	N3529.113	W08104.275
	WHTTL	N354511.55	W0803311.44	N3545.193	W08033.191
	RW01	N345025.81	W0822054.92	N3450.430	W08220.915
	RW10	N345053.05	W0822128.54	N3450.884	W08221.476
	RW19	N345119.13	W0822053.56	N3451.319	W08220.893
	RW28	N345052.25	W0822047.01	N3450.871	W08220.784

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW01	00988	36
	RW10	00993	40
	RW19	01048	30
	RW28	01013	40

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	LYH	LYH	010		IF		FB					
	LYH	FREON	020		TF		FB	1.0	236.0()	065.8		
	LYH	WHTTL	030		TF		FB	1.0	201.8()	049.3		
	ALL	WHTTL	010		IF		FB					
	ALL	ROLNN	020		TF		FB	1.0	243.8()	030.0		
	ALL	CEMUM	030		TF		FB	1.0	243.5()	031.0		
	ALL	SPA	040		TF		FO	1.0	243.2()	019.0		
	ALL	KGSP	050		VM		FB		243.2()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	LYH	N371516.48	W0791410.97	N3715.275	W07914.183
	SPA	N350201.05	W0815537.24	N3502.018	W08155.621
	CEMUM	N351221.46	W0813610.66	N3512.358	W08136.178
	FREON	N363241.03	W0801641.59	N3632.684	W08016.693
	ROLNN	N352906.79	W0810416.48	N3529.113	W08104.275
	WHTTL	N354511.55	W0803311.44	N3545.193	W08033.191
	RW04	N345258.39	W0821343.09	N3452.973	W08213.718
	RW22	N345430.44	W0821232.69	N3454.507	W08212.545

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00941	55
	RW22	00964	61

(11)
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	LYH	LYH	010		IF		FB					
	LYH	FREON	020		TF		FB	1.0	236.0()	065.8		
	LYH	WHTTL	030		TF		FB	1.0	201.8()	049.3		
	ALL	WHTTL	010		IF		FB					
	ALL	ROLNN	020		TF		FB	1.0	243.8()	030.0		
	ALL	CEMUM	030		TF		FB	1.0	243.5()	031.0		
	ALL	SPA	040		TF		FO	1.0	243.2()	019.0		
	ALL	KLQK	050		VM		FB		243.2()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	LYH	N371516.48	W0791410.97	N3715.275	W07914.183
	SPA	N350201.05	W0815537.24	N3502.018	W08155.621
	CEMUM	N351221.46	W0813610.66	N3512.358	W08136.178
	FREON	N363241.03	W0801641.59	N3632.684	W08016.693
	ROLNN	N352906.79	W0810416.48	N3529.113	W08104.275
	WHTTL	N354511.55	W0803311.44	N3545.193	W08033.191
	RW05	N344818.08	W0824231.16	N3448.301	W08242.519
	RW23	N344853.72	W0824149.58	N3448.895	W08241.826

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00964	45
	RW23	01013	45

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	LYH	LYH	010		IF		FB					
	LYH	FREON	020		TF		FB	1.0	236.0()	065.8		
	LYH	WHTTL	030		TF		FB	1.0	201.8()	049.3		
	ALL	WHTTL	010		IF		FB					
	ALL	ROLNN	020		TF		FB	1.0	243.8()	030.0		
	ALL	CEMUM	030		TF		FB	1.0	243.5()	031.0		
	ALL	SPA	040		TF		FO	1.0	243.2()	019.0		
	ALL	KSPA	050		VM		FB		243.2()			

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	SPA	N350201.05	W0815537.24	N3502.018	W08155.621
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	ROLNN	N352906.79	W0810416.48	N3529.113	W08104.275
	WHTTL	N354511.55	W0803311.44	N3545.193	W08033.191
	RW05	N345437.40	W0815744.11	N3454.623	W08157.735
	RW23	N345515.88	W0815702.65	N3455.265	W08157.044

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00793	49
	RW23	00789	57

(11)
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(12)
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(14)
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