

**RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33**

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**TERMINAL ROUTES**

**MISSED APPROACH**

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
GOODL (IF/IAF)	RKYTP (FB)	230.93 / 8.36	2800	LPV: DA LNAV/VNAV: DA LNAV: RW23L
RKYTP (FAF)	XEKEF/2.50 NM TO RW23L (FB)	230.86 / 3.11		
XEKEF/2.50 NM TO RW23L	RW23L (MAP) (FO)	230.86 / 2.50		CLIMB TO 1600 THEN CLIMB TO 3000 DIRECT GROSS AND HOLD.
RW23L (MAP)	1600 MSL	230.86	1600	
1600 MSL	GROSS (FO)		3000	

**ADDITIONAL FLIGHT DATA:**  
HOLD SW, RT, 050.88 INBOUND.  
CHART FAS OBST: 1259 TREES 355105N/0835729W  
DISTANCE TO THLD FROM 200 HAT: 0.47 NM.  
CHART VDP AT 1.59 MILES TO RW23L\*  
\*LNAV ONLY.  
WAAS CHANNEL # 90210  
REFERENCE PATH ID: W23B  
CHART CIRCLING ICON.  
LTP HAE: 262.7 M  
CHART: ASR.

1. PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)
2. HOLD NE GOODL, LT, 233.00 INBOUND, 3500 FT. IN LIEU OF PT (IAF)
3. FAC: 230.86 FAF: RKYTP DIST FAF TO MAP: 5.61 THLD: 5.61
4. MIN. ALT: GOODL 3500, RKYTP 2800, XEKEF/2.50 NM TO RW23L 1800\*
5. DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:
6. MIN GS INCPT: 2800 GS ALT AT: RKYTP 2800 OM:        MM:        IM:
7. GS ANGLE: 3.00 TCH: 51.6 34:1 IS CLEAR
8. MSA FROM: RW23L 7900

MAG VAR: 6W EPOCH YEAR: 2015

**MINIMUMS**

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A			STANDARD @					
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1165	4000	200	1165	4000	200	1165	4000	200	1165	4000	200			
LNAV/VNAV DA	1383	1 3/8	418	1383	1 3/8	418	1383	1 3/8	418	1383	1 3/8	418			
LNAV MDA	1520	5500	555	1520	5500	555	1520	1 5/8	555	1520	1 5/8	555			
CIRCLING	1520	1	539	1620	1	639	1660	2	679	1900	3	919			

**NOTES:**  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10C (14F) OR ABOVE 54C @ CAT D 1000-3 (130F).  
CHART NOTE: DME/DME RNP-0.3 NA.  
CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT GOODL ON V466-519 SOUTHWEST BOUND.  
\*LNAV ONLY



CITY AND STATE KNOXVILLE, TN	ELEVATION: 981 TDZE: 965 AIRPORT NAME: MC GHEE TYSON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23L, AMDT 2 25 JUNE 2015	SUP: AMDT: 1 DATED 11/20/2008
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
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*(This area is intentionally left blank for the instrument approach procedure.)*



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	AIRPORT NAME: MC GHEE TYSON				AMDT: 1
					DATED: 11/20/2008

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTYS
RUNWAY	RW23L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23B
LTP/FTP LATITUDE	354900.5900N
LTP/FTP LONGITUDE	0835900.8300W
LTP/FTP ELLIPSOIDAL HEIGHT	+02627
FPAP LATITUDE	354757.2780N
FPAP LONGITUDE	0840018.0240W
THRESHOLD CROSSING HEIGHT (TCH)	00051.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0128
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 332DC9ED

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+02932
FPAP ORTHOMETRIC HEIGHT	+02932

QUALITY  
24  
CHECKED

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**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
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ARINC PACKET - 424-18 - RNAV (GPS)

1	2	3	4	5	6	7	8	9	0	1	2	3
WP	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890
SUSAEAENRT	GOODL K70	C	L	N35585554W083465295			W0057	NAR		GOODL		
SUSAEAENRT	GROSS K70	C	L	N35344044W084201042			W0052	NAR		GROSS		
SUSAEAENRT	RKYTP K70	C		N35525961W083540894			W0056	NAR		RKYTP		
SUSAEAENRT	XEKEF K70	C		N35504715W083565080			W0055	NAR		XEKEF		

1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890
SUSAP	KTYSK7ATYS	0	090YHN35483950W083593850W006000981				1800018000C	MNAR		MC GHEE TYSON		

1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890
SUSAP	KTYSK7FR23L	AGOODL	010GOODLK7EA0EE	AL	HF		23300040	+ 03500	18000		A JS	
SUSAP	KTYSK7FR23L	R	010GOODLK7EA0E	I	IF			+ 03500	18000		A JS	
SUSAP	KTYSK7FR23L	R	020RKYTPK7EA1E	F	051TF		23090084	+ 02800		RW23L K7PGA	JS	
SUSAP	KTYSK7FR23L	R	020RKYTPK7EA2WALPV		ALNAV/VNAV ALNAV						JS	
SUSAP	KTYSK7FR23L	R	021XEKEFK7EA0E	S	031TF		23090031	V 0180001810		-300	A JS	
SUSAP	KTYSK7FR23L	R	030RW23LK7PGOGY	M	031TF		23090025	01014		-300	A JS	
SUSAP	KTYSK7FR23L	R	040		0 M CA		2309	+ 01600			A JS	
SUSAP	KTYSK7FR23L	R	050GROSSK7EA0EY		DF			+ 03000			A JS	
SUSAP	KTYSK7FR23L	R	060GROSSK7EA0EE		R HM		05090040	+ 03000			A JS	

1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890
SUSAP	KTYSK7GRW23L	0090002308	N35490059W083590083-0300				+0262700962040052150	IIIOXH1				

1	2	3	4	5	6	7	8	9	0	1	2	3
PP	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890
SUSAP	KTYSK7PR23L	RW23L001	0000W23B0N3549005900W08359008300+026270300N3547572780W08400180240106750128000516F400350332DC9ED									
SUSAP	KTYSK7PR23L	RW23L002E	+02932+02932LPV		90210							

1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890
SUSAP	KTYSK7SRW23LK7PG		0	18018007925							M	

CITY AND STATE <b>KNOXVILLE, TN</b>	ELEVATION: <b>981</b>	TDZE: <b>965</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) RWY 23L, AMDT 2</b>  25 JUNE 2015	SUP:
	AIRPORT NAME: <b>MC GHEE TYSON</b>				AMDT: <b>1</b>
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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GOODL	GOODL	010	IAF	HF	L	FO		233.0 (227.0T)	004.0	AA 03500	
		GOODL	010	FACF	IF		FB				AA 03500	
		RKYTP	020	FAF	TF		FB	0.5	230.9 (224.9T)	008.4	AA 02800	
		XEKEF	021	SDF	TF		FB	0.3	230.9 (224.9T)	003.1	AA 01800	GS 01810
		RW23L	030	MAP	TF		FO	0.3	230.9 (224.9T)	002.5	AT 01014	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		230.9 (224.9T)		AA 01600	
	GROSS	050		DF		FO				AA 03000	
	GROSS	060		HM	R	FO		050.9 (044.9T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GOODL	N355855.54	W0834652.95	N3558.926	W08346.883
	GROSS	N353440.44	W0842010.42	N3534.674	W08420.174
	RKYTP	N355259.61	W0835408.94	N3552.994	W08354.149
	XEKEF	N355047.15	W0835650.80	N3550.786	W08356.847
	RW23L	N354900.59	W0835900.83	N3549.010	W08359.014

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW23L	00962	52

QUALITY  
24  
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