

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW30 CLIMB TO 3200 THEN CLIMBING RIGHT TURN TO 4500 DIRECT RENLY AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 2429 TREE 482138N/1025305W CHART 2726 TOWER 481953N/1024714W. DISTANCE TO THLD FROM 250 HATH: 0.66 NM. WAAS CHANNEL # 56630 REFERENCE PATH ID: W30A LTP HAE: 673.9 M											
FONIA	RENLY (FO)	083.10 / 19.33	4500												
ERUVE (IAF)	RENLY (NOPT) (FB)	256.75 / 7.07	4500												
RENLY (IF/IAF)	GAZUH (FB)	305.39 / 6.02	3800												
GAZUH (FAF)	CETBO/2.70 NM TO RW30 (FB)	305.31 / 1.98													
CETBO/2.70 NM TO RW30	RW30 (MAP) (FO)	305.29 / 2.70													
RW30 (MAP)	3200 MSL	305.29	3200												
3200 MSL	RENLY (FO)		4500												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SE RENLY, RT, 305.39 INBOUND, 4500 FT. IN LIEU OF PT (IAF) 3. FAC: <u>305.31</u> FAF: <u>GAZUH</u> DIST FAF TO MAP: <u>4.68</u> THLD: <u>4.68</u> 4. MIN. ALT: RENLY 4500, GAZUH 3800, CETBO/2.70 NM TO RW30 3160* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u>150</u> HAT: <u>100</u> HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>3800</u> GS ALT AT: <u>GAZUH 3800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW30 4000</u>				MAG VAR: 8E 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	2521	1	250	2521	1	250	2521	1	250	2521	1	250			
LNAV/VNAV DA	2610	1 1/8	339	2610	1 1/8	339	2610	1 1/8	339	2610	1 1/8	339			
LNAV MDA	2720	1	449	2720	1	449	2720	1 3/8	449	2720	1 3/8	449			
CIRCLING	2760	1	489	2840	1	569	2840	1 1/2	569	2980	2 1/4	709			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (2F) OR ABOVE 54C (130F). CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 30 PROCEDURE NA AT NIGHT. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. (SEE FORM 8260-10)															
CITY AND STATE				ELEVATION: 2271 THRE: 2271		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
TIOGA, ND				AIRPORT NAME:		RNAV		RNAV (GPS) RWY 30, AMDT 1				AMDT: ORIG			
				TIOGA MUNI				10 JANUARY 2013				DATED 08/27/2009			

QUALITY
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT.

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLISTON ALTIMETER SETTING AND INCREASE ALL DA 115 FT AND ALL MDA 120 FEET, INCREASE LPV VISIBILITY ALL CATS AND LNAV CAT C/D VISIBILITY 1/4 MILE, LNAV/VNAV ALL CATS 3/8 MILE, CIRCLING CAT C AND D 1/2 MILE.

CHART NOTE: BARO-VNAV NA WHEN USING WILLISTON ALTIMETER SETTING.

QUALITY
CHECKED

CITY AND STATE TIOGA, ND	ELEVATION: 2271	THRE: 2271	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 10 JANUARY 2013	SUP:
	AIRPORT NAME: TIOGA MUNI	AMDT: ORIG			
	DATED: 08/27/2009				

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

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	D60
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	482229.4540N
LTP/FTP LONGITUDE	1025321.6825W
LTP/FTP ELLIPSOIDAL HEIGHT	+06739
FPAP LATITUDE	482330.4500N
FPAP LONGITUDE	1025459.0500W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

5AAE270E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+06921
FPAP ORTHOMETRIC HEIGHT	+06921

CITY AND STATE

TIOGA, ND

ELEVATION: 2271

THRE: 2271

AIRPORT NAME:

TIOGA MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, AMDT 1

10 JANUARY 2013

SUP:

AMDT:

ORIG

DATED:

08/27/2009



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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP D60 K3FR30	AERUVE	010ERUVEK3EA0E	A	IF						18000		A JS	
SUSAP D60 K3FR30	AERUVE	020RENLYK3EA0EE	B	010TF		25680071		+ 04500				A JS	
SUSAP D60 K3FR30	AFONIA	010FONIAK3EA0E		IF						18000		A JS	
SUSAP D60 K3FR30	AFONIA	020RENLYK3EA0EY		020TF		08310193		+ 04500				A JS	
SUSAP D60 K3FR30	AFONIA	030RENLYK3EA0EE	AR	HF		30540060		+ 04500				A JS	
SUSAP D60 K3FR30	R	010RENLYK3EA0E	I	IF				+ 04500	18000			A JS	
SUSAP D60 K3FR30	R	020GAZUHK3EA1E	F	051TF		30540060		+ 03800			RW30	K3PGA	JS
SUSAP D60 K3FR30	R	020GAZUHK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP D60 K3FR30	R	021CETBOK3EA0E	S	031TF		30530020		V	0316003170		-300		A JS
SUSAP D60 K3FR30	R	030RW30	K3PGOGY	M	031TF	30530027			02311		-300		A JS
SUSAP D60 K3FR30	R	040		0	M	CA	3053		+ 03200				A JS
SUSAP D60 K3FR30	R	050RENLYK3EA0EY	R	DF				+ 04500					A JS
SUSAP D60 K3FR30	R	060RENLYK3EA0EE	R	HM		30540060		+ 04500					A JS

[illegible][illegible][illegible]

CITY AND STATE TIOGA, ND	ELEVATION: 2271 THRE: 2271	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 10 JANUARY 2013	SUP:
	AIRPORT NAME: TIOGA MUNI	RNAV		AMDT: ORIG
				DATED: 08/27/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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SUSAP D60 K3SRW30 K3PG

0 18018004025

M



CITY AND STATE TIOGA, ND	ELEVATION: 2271	THRE: 2271	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 1 10 JANUARY 2013	SUP:
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ARINC SUMMARY - 424-18 - RNAV (GPS)

RCUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ERUVE	ERUVE	010	IAF	IF		FB					
	ERUVE	RENLY	020		TF		FB	1.0	256.8(264.8T)	007.1	AA 04500	
	FONIA	FONIA	010		IF		FB					
	FONIA	RENLY	020		TF		FO	2.0	083.1(091.1T)	019.3	AA 04500	
	FONIA	RENLY	030	IAF	HF	R	FO		305.4(313.4T)	006.0	AA 04500	
		RENLY	010	FACF	IF		FB				AA 04500	
		GAZUH	020	FAF	TF		FB	0.5	305.4(313.4T)	006.0	AA 03800	
		CETBO	021	SDF	TF		FB	0.3	305.3(313.3T)	002.0	AA 03160	GS 03170
		RW30	030	MAP	TF		FO	0.3	305.3(313.3T)	002.7	AT 02311	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		305.3(313.3T)		AA 03200	
	RENLY	050		DF	R	FO				AA 04500	
	RENLY	060		HM	R	FO		305.4(313.4T)	006.0	AA 04500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CETBO	N482038.49	W1025024.80	N4820.642	W10250.413
	ERUVE	N481548.60	W1023109.46	N4815.810	W10231.158
	FONIA	N481535.07	W1031037.54	N4815.585	W10310.626
	GAZUH	N481917.21	W1024815.45	N4819.287	W10248.258
	RENLY	N481509.27	W1024141.96	N4815.155	W10241.699
	RW30	N482229.45	W1025321.68	N4822.491	W10253.361

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30	02271	40

CITY AND STATE
TIOGA, ND

ELEVATION: **2271** THRE: **2271**
 AIRPORT NAME:
TIOGA MUNI

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 30, AMDT 1
10 JANUARY 2013

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