

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> KENNETH COPELAND	<u>AIRPORT ID</u> 4T2	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> FORT WORTH	<u>STATE</u> TX	
<u>AIRPORT ELEVATION</u> 693	<u>TDZE</u> 693	<u>SUPERSEDED</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 01/05/2017	<u>MAG VAR</u> 4E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
MQP VORTAC		REZYU		TF	FB	1.00	025.12	31.68	3000
UNYUK	IAF	ODGOY		TF	FB	1.00	261.49	10.50	3000
REZYU	IAF	ODGOY		TF	FB	1.00	085.28	9.00	3000
ODGOY	IF	ZEBAV		TF	FB	1.00	171.39	7.00	2400
ZEBAV	FAF	CAPUV/2.70 NM TO RW17		TF	FB	0.30	171.40	2.55	
CAPUV/2.70 NM TO RW17		RW17	MAP	TF	FO	0.30	171.40	2.70	
RW17	MAP	1200 MSL		CA			171.40		1200
1200 MSL		ODGOY		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 3100 DIRECT ODGOY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT ODGOY

3. FAC:

171.40

FAF: ZEBAV

DIST FAF TO MAP: 5.25

DIST FAF TO THLD: 5.25

4. MIN ALT: ODGOY 3000, ZEBAV 2400, CAPUV/2.70 NM TO RW17 1580*

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.68

GS ANT:

6. MIN GP INCPT:

2400

GP ALT AT FAF : ZEBAV 2400

OM:

MM:

IM:

7. GP ANGLE:

3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 40.0

8. MSA FROM: RW17 4000

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FORT WORTH MEACHAM INTL ALTIMETER SETTING.
CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MQP VORTAC AIRWAY RADIALS 330 CW 001.
CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, USE FORT WORTH MEACHAM INTL ALTIMETER SETTING: INCREASE LPV DA TO 973 FEET; INCREASE LNAV/VNAV DA TO 1135 FEET; INCREASE ALL MDA 40 FEET AND LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.48 NM TO RW17*
*LNAV ONLY
WAAS CHANNEL #62840
REFERENCE PATH ID: W17A
CHART FAS OBST: 939 ANTENNA 325946N/0973000W.
CHART: 1297 TOWER 330434N/0972829W.
HOLD N, RT, 171.39 INBOUND
LTP HAE: 181.4 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☒

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	943	1	250	943	1	250	943	1	250	943	1	250			
LNAV/VNAV DA	1105	1 3/8	412	1105	1 3/8	412	1105	1 3/8	412	1105	1 3/8	412			
LNAV MDA	1200	1	507	1200	1	507	1200	1 3/8	507	1200	1 3/8	507			
CIRCLING	1240	1	547	1240	1	547	1340	1 3/4	647	1440	2 1/2	747			



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	4T2
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	325908.7805N
LTP/FTP LONGITUDE	0972935.0500W
LTP/FTP ELLIPSOIDAL HEIGHT	+01814
FPAP LATITUDE	325739.7950N
FPAP LONGITUDE	0972926.5575W
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	0944
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	EDC48C00

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02096
FPAP ORTHOMETRIC HEIGHT	+02096



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KENNETH COPELAND	4T2	RNAV (GPS) RWY 17	ORIG-A	FORT WORTH	TX	693	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
MQP VORTAC

TO
REZYU

<u>RNP</u>	<u>DISTANCE</u> 31.68	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (48-005278)	324943.00N/0975305.00W	1784	100	20	3C	1000				AT216	3000
2.TERRAIN	325645.00N/0975300.00W	1326 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
UNYUK

TO
ODGOY

<u>RNP</u>	<u>DISTANCE</u> 10.50	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TOWER (48-023643)	331217.50N/0973012.70W		1265	500	50	5D	1000				AT735	3000
4.TERRAIN	331233.00N/0973130.00W		1021 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM
REZYU

TO
ODGOY

RNP	DISTANCE 9.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (48-004817)	331050.00N/0973338.00W		1487	100	20	3C	1000				AT513	3000
6.TERRAIN	331233.00N/0973130.00W		1021 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
ODGOY

TO
ZEBAV

RNP	DISTANCE 7.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (48-003428)	330434.00N/0972829.00W		1297	500	50	5D	500				AT603	2400
8.TERRAIN	330900.00N/0973151.00W		1021 (1000)								AS1000	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

ZEBAV

TO

RW17

RNP	DISTANCE	PAT	MAP				HAT	HMAS				
	5.25		DA				250					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE (48-053182)	325928.82N/0972938.14W		751	20	3	1A		34:1				943

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

ZEBAV

TO

RW17

RNP	DISTANCE	PAT	MAP				HAT	HMAS				
	5.25		DA				412					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.ANTENNA (48-116987)	325946.34N/0973000.01W		939	20	3	1A	161				XP5	1105

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

XP TO MAINTAIN CURRENT DA/HAT.



RF CENTER FIX/DISTANCERF CENTER FIX/DISTANCE

QUALITY
6
CHECKED

MISSED APPROACH : LPV

FROM

DA

TO

ODGOY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 753					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
5.TOWER (48-004817)	331050.00N/0973338.00W		1487	100	20	3C	1000					2500
12.TERRAIN	330857.00N/0973151.00W		1020 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

ODGOY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 944					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
5.TOWER (48-004817)	331050.00N/0973338.00W		1487	100	20	3C	1000					2500
12.TERRAIN	330857.00N/0973151.00W		1020 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW17

TO

ODGOY

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							1100				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3100
5.TOWER (48-004817)	331050.00N/0973338.00W	1487	100	20	3C	1000					2500
12.TERRAIN	330857.00N/0973151.00W	1020 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
10.ANTENNA (48-116987)	325946.34N/0973000.01W	1.30	547	939	20	3	1A	300			1240
CATEGORY B											
10.ANTENNA (48-116987)	325946.34N/0973000.01W	1.83	547	939	20	3	1A	300			1240
CATEGORY C											
13.TRANSMISSION_LINE (48-125770)	330112.61N/0972800.49W	2.88	647	977	250	50	4D	300		AC50	1340
CATEGORY D											
14.AAO	330221.66N/0972718.95W	3.76	747	1130	50	20	2C	300			1440

CIRCLING REMARKS:



<div>AIRPORT KENNETH COPELAND</div>	<div>AIRPORT ID 4T2</div>	<div>PROCEDURE NAME RNAV (GPS) RWY 17</div>	<div>AMDT NO. ORIG-A</div>	<div>CITY FORT WORTH</div>	<div>STATE TX</div>	<div>AIRPORT ELEVATION 693</div>	<div>FACILITY RNAV</div>
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MSA

CENTER
RW17

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (48-009778)	332613.40N/0972906.09W	357	27.0	3000	500	50	5D	1000			4000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

QUALITY
6
CHECKED

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Page 7 of 11

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZFW ARTCC, FTW FSS

<u>WX SERVICE</u> CTAF	<u>LOCATION</u> K4T2	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> K4T2	<u>DISTANCE</u> 0	<u>SERVICE-A</u> N	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KFTW	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KFTW	<u>DISTANCE</u> 11.618	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 30

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
K4T2 693, KFTW 717
RA = 29.1.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW17 - LIRL (PCL)		NPI-G	
RW35 - LIRL (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 687.5	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -16C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -16C	<u>APT ISA</u> +13.63C
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CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 964 HIGH TEMP 1272.

<u>AIRPORT</u> KENNETH COPELAND	<u>AIRPORT ID</u> 4T2	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> FORT WORTH	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 693	<u>FACILITY</u> RNAV
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PART D: AIRSPACE

DOCKET # NOT REQUIRED

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.68
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	175.40
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	11.25
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	175.39
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1000

THRESHOLD
COORDINATES
(IF STR-IN)

325908.78N/0972935.05W

ARP COORDINATES

325839.47N/0972932.26W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 17 DISTANCE 0.49 NM

FAF
COORDINATES

330423.49N/0973005.12W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
6
CHECKED

Page 10 of 11

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AIRPORT

AIRPORT ID

PROCEDURE NAME

AMDT NO.

CITY

STATE

AIRPORT ELEVATIONFACILITY

PART E: PREPARED BY

NAME
JOHN BORDY (MICHAEL C. OLVERA)

OFFICE
AJV-A422

DATE
12/09/2019

TITLE
AERONAUTICAL INFORMATION SPECIALIST

QUALITY
6
CHECKED