

RADIO FIX AND HOLDING DATA RECORD

NAME: FORNEY VOR **STATE:** MO **COUNTRY:** US **ICAO REGION CODE:** K3

LATITUDE/LONGITUDE: 374432.75N/0920820.38W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	FORNEY	TBN	VOR	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:

REFERENCE MAG VAR: 0/ EPOCH YEAR 2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V132	1				(US)
EN ROUTE	V239	1				(US)
IAP	VOR-A	1		KOZS	CAMDENTON	MO (US)
IAP	ILS OR LOC RWY 15	1		KTBN	FORT LEONARD WOOD	MO (US)
IAP	VOR RWY 15	1		KTBN	FORT LEONARD WOOD	MO (US)
IAP	VOR RWY 33	1		KTBN	FORT LEONARD WOOD	MO (US)
IAP	VOR RWY 4	1		KAIZ	KAISER/LAKE OZARK	MO (US)

REQUIRED CHARTING: MILITARY IAP, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 08/15/2019

REASON FOR REVISION:

1. UPDATED VOR RWY 14, ILS OR LOC RWY 14 AND VOR RWY 32 AT KTBN TO VOR RWY 15, ILS OR LOC RWY 15 AND VOR RWY 33 IN FIX USE.
2. UPDATED VOR RWY 3 AT KAIZ TO VOR RWY 4 IN FIX USE.
3. ADDED REFERENCE MAG VAR: 0/ EPOCH YEAR 2020 TO REMARKS.
4. ADDED FAC TO AIRWAYS IN FIX USE.
5. ADDED CONTROLLER LOW TO REQUIRED CHARTING.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** LIAM DONAHUE

APPROVED BY: **DATE:** **OFFICE:** AJV-A43 **NAME:** PATRICK MULQUEEN

Digitally signed by
SIGNATURE: DONALD H LANIER

DISTRIBUTION: Apr 25, 2019

NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: TBN
OTHER: MOARNG (SAAO)



RADIO FIX AND HOLDING DATA RECORD

NAME: GIJOE OM

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 374919.70N/0921222.50W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	GIJOE	TB	OM								5600
2	FORT LEONARD WOOD	I-TBN	LOC/DME		324.16	327.16	6.29	6.29	38191	2800	5600
3	VICHY	VIH	VOR/DME	L	224.13	230.13	30.94	30.94		2800	17500
4	FORNEY	TBN	VOR	L	323.21	326.21		5.75		2800	12000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE GIJOE OM.

ACTUAL FACILITY LOCATION IS 374919.50N/0921222.90W.

TBN ILS DME ANTENNA COORDINATES: 374401.14N - 0920807.18W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14			KTBN	FORT LEONARD WOOD	MO (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

UPDATED FIX MAKEUP FAC 2-4.

FIX USE UPDATED.

03/14/2013. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/07/2013.
ON FAC 4, REMOVED DME DISTANCE.

INITIATED BY: DATE: ORGANIZATION: NAME:

DEVELOPED BY: DATE: OFFICE: NAME:

APPROVED BY: DATE: OFFICE: AJV-A43 NAME: PATRICK MULQUEEN

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION: NFDC
FPO: MKC
ARTCC: ZKC
ATC FACILITY: MKC/TBN
OTHER: MOARNG (SAAO)

Apr 25, 2019



RADIO FIX AND HOLDING DATA RECORD

NAME: PIMEW STATE: MO COUNTRY: US ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 375458.15N/0921658.71W TYPE: WP, INT, DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	FORT LEONARD WOOD	I-TBN	LOC/DME		327.17	327.17	13.00	13.00	3000	5600
2	VICHY	VIH	VOR/DME	L	236.61	242.61		30.81	3000	6000
3	FORNEY	TBN	VOR	L	326.72	326.72		12.46	3000	6000
4	SUNSHINE	SHY	VOR/DME	L	116.11	116.11		16.89	3000	6000

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SE	TBN	VOR	326.72	326.72	R	1	3000 6000	6 7
2	NW	WP	WP	327.07	147.07	R	4	3100 6000	5 6
3	NW	SHY	VOR/DME	116.11	116.11	R	1	3000 6000	6 7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (29-002231)	375649.51N/0922117.52W	1487	1A
2	200	TOWER (29-002231)	375649.51N/0922117.52W	1487	1A
3	200	TOWER (29-002231)	375649.51N/0922117.52W	1487	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

FORT LEONARD WOOD (FAC 1) AND VICHY (FAC 2) USED TO ESTABLISH FIX COORDINATES
TBN ILS DME ANTENNA COORDINATES: 374401.13N-0920807.19W
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 15	1, 2, 3, 4	1, 3	KTBN	FORT LEONARD WOOD	MO (US)
IAP	RNAV (GPS) RWY 15		2	KTBN	FORT LEONARD WOOD	MO (US)
IAP	RNAV (GPS) RWY 33		2	KTBN	FORT LEONARD WOOD	MO (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

- ADDED HOLDING PATTERN 3.
- UPDATED MAG BRG FOR FAC 1 AND FAC 3 FROM 324.17 AND 323.72 TO 327.17 AND 326.72.
- UPDATED KTBN PROCEDURES FROM "RNAV (GPS) RWY 14, ILS OR LOC RWY 14 AND RNAV (GPS) RWY 32" TO "RNAV (GPS) RWY 15, ILS OR LOC RWY 15 AND RNAV (GPS) RWY 33" IN FIX USE.
- UPDATED RAD/CRS/BRG AND CRS INBOUND FROM 323.72 AND 323.72 TO 326.72 326.72 FOR HOLDING PATTERN 1 AND FROM 324.08 AND 144.08 TO 327.07 AND 147.07 FOR HOLDING PATTERN 2.
- CHANGED FACS 2 THROUGH 4 MAA FROM 17500 TO 6000.
- CHANGED PATTERN 2 DME FROM 5 TO 4.
- UPDATED TBN ILS DME ANTENNA COORDINATES FROM 374401.14N-0920807.18W TO 374401.13N-0920807.19W IN REMARKS.
- CHANGED HOLDING PATTERN 3 MIN/MAX TEMPLATES FROM 5/6 TO 6/7.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 NAME: LIAM DONAHUE

APPROVED BY: DATE: OFFICE: AJV-A43 NAME: PATRICK MULQUEEN

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: MKC/TBN
OTHER: MOARNG (SAAO)

Apr 25, 2019



RADIO FIX AND HOLDING DATA RECORD

NAME: URAYU

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 374935.08N/0921234.97W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	FORT LEONARD WOOD	I-TBN	LOC/DME		327.17	327.17	6.59	6.59	40041	3000	5600
2	VICHY	VIH	VOR/DME	L	224.69	230.69		30.90		3000	17500
3	FORNEY	TBN	VOR	L	329.27	329.27		6.05		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FORT LEONARD WOOD (FAC 1) AND VICHY (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 15	1, 2, 3		KTBN	FORT LEONARD WOOD	MO (US)
IAP	RNAV (GPS) RWY 15			KTBN	FORT LEONARD WOOD	MO (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. MOVED FIX 568.19 FT NW.
2. ADDED ILS OR LOC RWY 15 AT KTBN TO FIX USE.
3. DELETED KTBN R15 DISPLACED THRESHOLD COORDINATES: 374450.79N -0920843.65W FROM REMARKS.
4. ADDED FAC 2, AND FAC 3 TO FIX MAKEUP FACILITIES.
5. ADDED DME AND INT TO FIX TYPE.
6. ADDED FORT LEONARD WOOD (FAC 1) AND VICHY (FAC 2) USED TO ESTABLISH FIX COORDINATES TO REMARKS
7. REPLACED KTBN R14 AS FAC 1 WITH I-TBN.
8. UPDATED FIX USE FROM RNAV (GPS) RWY 14 TO RNAV (GPS) RWY 15.

04/22/19: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/20/2018.

1. CHANGED FAC 1 MAG BRG FROM 324.17 TO 327.17 AND FAC 3 MAG BRG FROM 326.27 TO 329.27.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-A43

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: TBN
OTHER: MOARNG (SAAO)

Apr 25, 2019

QUALITY
24
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VICHY VOR/DME **STATE:** MO **COUNTRY:** US **ICAO REGION CODE:** K3

LATITUDE/LONGITUDE: 380914.66N/0914224.38W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA FEET	MAA
1	VICHY	VIH	VOR/DME	L						17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE	VIH	VOR/DME	061.00	241.00	R	1		2700	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	380706.00N/0914627.00W	1359	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 6E 1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LINDBERGH			KALN	ALTON/ST LOUIS	IL (US)
DP	LINDBERGH			KBLV	BELLEVILLE	IL (US)
DP	LINDBERGH			KPCS	CAHOKIA/ST LOUIS	IL (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSUS	ST LOUIS	MO (US)
EN ROUTE	V14-88					(US)
EN ROUTE	V175					(US)
EN ROUTE	V178					(US)
EN ROUTE	V234					(US)
EN ROUTE	V289					(US)
IAP	VOR-A			KOZS	CAMDENTON	MO (US)
IAP	RNAV (GPS) RWY 18			KUBX	CUBA	MO (US)
IAP	ILS OR LOC RWY 15			KTBN	FORT LEONARD WOOD	MO (US)
IAP	VOR RWY 15			KTBN	FORT LEONARD WOOD	MO (US)
IAP	VOR RWY 33			KTBN	FORT LEONARD WOOD	MO (US)
IAP	ILS OR LOC RWY 30		1	KJEF	JEFFERSON CITY	MO (US)
IAP	LOC/DME RWY 22			KAIZ	KAISER/LAKE OZARK	MO (US)
IAP	VOR RWY 4			KAIZ	KAISER/LAKE OZARK	MO (US)
IAP	VOR RWY 32			KK15	OSAGE BEACH	MO (US)
IAP	RNAV (GPS) RWY 22			KVIH	ROLLA/VICHY	MO (US)
IAP	RNAV (GPS) RWY 4			KVIH	ROLLA/VICHY	MO (US)
IAP	VOR RWY 22		1	KVIH	ROLLA/VICHY	MO (US)
IAP	VOR/DME RWY 4		1	KVIH	ROLLA/VICHY	MO (US)
STAR	KOOP			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP, STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. DELETED NDB RWY 32 AT KTBN FROM FIX USE.
2. UPDATED VOR RWY 14, ILS OR LOC RWY 14 AND VOR RWY 32 AT KTBN TO VOR RWY 15, ILS OR LOC RWY 15 AND VOR RWY 33 IN FIX USE.
3. ADDED "CONTROLLER HIGH" TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-A43

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DONALD H LANIER

Apr 25, 2019



DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: JEF ATCT
OTHER: MOARNG (SAAO)

QUALITY
24
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOKVI

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 374602.88N/0920942.25W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	FORT LEONARD WOOD	I-TBN	LOC/DME		327.17	327.17	2.38	2.39		1560	5600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

TBN ILS DME ANTENNA COORDINATES: 374401.13N - 0920807.19W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 15	1		KTBN	FORT LEONARD WOOD	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. MOVED FIX 1728.59 FT NW.
2. CHANGED FAC 1 DIST FROM FACILITY AND DME FROM 2.1 TO 2.39 AND 2.38.
3. CHANGED FAC 1 MAG BRG FROM 144.16 TO 327.17.
4. UPDATED TBN ILS DME ANTENNA COORDINATES FROM: 374401.14N - 0920807.18W TO: 374401.13N - 0920807.19W.
5. CHANGED ILS OR LOC RWY 14 AT KTBN TO ILS OR LOC RWY 15 IN FIX USE.
6. CHANGED FAC1 MRA/MAA FROM 1380/6000 TO 1560/5600.
7. DELETED DIST FROM FAC IN FEET.

04/22/19: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/20/2018.

1.CHANGED FAC 1 MAG BRG FROM 324.17 TO 327.17.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-A43

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: TBN
OTHER:

Apr 25, 2019

QUALITY
24
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