

RADIO FIX AND HOLDING DATA RECORD

NAME: JOEBB

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 412817.19N/0931259.40W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	333.78	153.78	R	4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-000791)	413217.00N/0931757.00W	1642	3C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 15		1	KOXV	KNOXVILLE	IA (US)
IAP	RNAV (GPS) RWY 33		1	KOXV	KNOXVILLE	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/08/2010

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 07/13/2009

OFFICE: AVN-120

NAME: STEVEN SZUKALA (BETTY RICHARDS)

APPROVED BY:

DATE: 02/04/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: DSM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LACON

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 410823.43N/0932409.22W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 20-ACE-13

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	KIRKSVILLE	IRK	VORTAC	H	322.68	328.68	70.72	70.72	7000	17500
2	NEWTON	TNU	VOR/DME	L	196.02	199.02		40.83	2500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IRK	VORTAC	R-323	71	7000	15500
TNU	VOR/DME	R-196	41	2500	17500

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

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		WP	147.33	327.33	L	7	3000 10000	9 10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-002698)	410233.60N/0933042.40W	1535	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

KIRKSVILLE (FAC 1) AND NEWTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T397		1			(US)
EN ROUTE	V175	1, 2				(US)
IAP	RNAV (GPS) RWY 15			KOXV	KNOXVILLE	IA (US)
IAP	RNAV (GPS) RWY 33			KOXV	KNOXVILLE	IA (US)
IAP	RNAV (GPS) RWY 18			I75	OSCEOLA	IA (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 10/07/2021

REASON FOR REVISION:

TYPE: ADDED WP.
AIRSPACE DOCKET: ADDED 20-ACE-13.
FIX MAKE-UP FACILITIES: CHANGED FAC 2 (TNU) MRA FROM 7000 TO 2500 - ESVMs VALUE.
HOLDING: ADDED PAT 1 DATA, HOLDING RESTRICTION AND PRECIPITOUS REMARK.
FIX USE: ADDED T397 AND PAT 1.
REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 05/06/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: LEGWU

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 410735.98N/0930041.44W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SE		WP	153.92	333.92	R		4	2700	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-002839)	410915.90N/0925641.80W	1391	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 15		1	KOXV	KNOXVILLE	IA (US)
IAP	RNAV (GPS) RWY 33		1	KOXV	KNOXVILLE	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/08/2010

REASON FOR REVISION:

MOVED FIX 6079.02 FT (1.00 NM) SOUTHEAST TO ESTABLISH A 6.25 NM INTERMEDIATE SEGMENT ON KOXV RNAV (GPS) 33 PROCEDURE.
REMOVED FIX MAKE-UP FACILITY.
UPDATED FIX USE.
ADDED HOLDING PATTERN FOR HOLD IN LIEU FOR KOXV RNAV(GPS) 33 PROCEDURE AND MISSED APPROACH HOLDING FOR KOXV RNAV (GPS) 15 PROCEDURE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 07/13/2009

OFFICE: AVN-120

NAME: STEVEN SZUKALA (BETTY RICHARDS)

APPROVED BY:

DATE: 02/04/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: DSM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MIXIN

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 413657.36N/0932218.86W

TYPE: WP, 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	DES MOINES	DSM	VORTAC	VH	042.29	049.29	16.43	16.43	3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

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	NE	DSM	VORTAC	042.29	222.29	R	1	4000 6000	6 7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-000741)	413755.00N/0932727.00W	2004	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V77	1				(US)
IAP	RNAV (GPS) RWY 15			KOXV	KNOXVILLE	IA (US)
IAP	ILS OR LOC RWY 32	1	1	KTNU	NEWTON	IA (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

1. TYPE: REMOVED "INT".
2. FIX MAKE-UP: DELETED FAC 2 "OTTUMWA OTM VOR/DME" AND ASSOCIATED ESV.; UPDATED DES MOINES DSM VORTAC CLASS FROM "H" TO "VH"
3. RESTRICTIONS: REMOVED "MRA OTM 5000"
4. REMARKS: REMOVED "DES MOINES (FAC 1) AND OTTUMWA (FAC 2) USED TO ESTABLISH FIX COORDINATES."
5. CHARTING: UPDATED "CONTROLLER" TO "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: NEWTON VOR/DME

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 414701.98N/0930632.52W

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 FEET	MRA	MAA
1	NEWTON	TNU	VOR/DME	L						17500

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	NW	TNU	VOR/DME	327.00	147.00	R	1	2700 10000	4 12
2	NE	TNU	VOR/DME	056.01	236.01	R	1	3000 10000	4 9
3	SE	TNU	VOR/DME	115.84	295.84	R	1	3000 10000	4 9
4	NE		WP	046.61	226.61	R		4000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-001421)	414904.50N/0931235.30W	1458	5D
1	310	WINDMILL (19-020967)	420233.77N/0931423.17W	1530	4D
2	200	WINDMILL (19-022089)	415328.09N/0925819.66W	1527	2C
3	200	TOWER (19-000872)	414409.00N/0930113.50W	1281	1A
4	200	WINDMILL (19-022089)	415328.09N/0925819.66W	1527	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 32	KTNU	NEWTON	IA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
MAGVAR 3E/1995.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS			KIKV	ANKENY	IA (US)
EN ROUTE	V172					IA (US)
EN ROUTE	V77					IA (US)
IAP	ILS OR LOC RWY 01			KAMW	AMES	IA (US)
IAP	VOR RWY 31			KAMW	AMES	IA (US)
IAP	ILS OR LOC RWY 36		2	KIKV	ANKENY	IA (US)
IAP	RNAV (GPS) RWY 18		4	KIKV	ANKENY	IA (US)
IAP	ILS OR LOC RWY 05			KDSM	DES MOINES	IA (US)
IAP	ILS OR LOC RWY 13			KDSM	DES MOINES	IA (US)
IAP	ILS OR LOC RWY 31			KDSM	DES MOINES	IA (US)
IAP	ILS RWY 31 (CAT II)			KDSM	DES MOINES	IA (US)
IAP	ILS RWY 31 (CAT III)			KDSM	DES MOINES	IA (US)
IAP	VOR RWY 23		2	KDSM	DES MOINES	IA (US)
IAP	VOR/DME RWY 31			KGGI	GRINNELL	IA (US)
IAP	RNAV (GPS) RWY 15			KOXV	KNOXVILLE	IA (US)
IAP	ILS OR LOC RWY 32		1	KTNU	NEWTON	IA (US)
IAP	VOR RWY 14			KTNU	NEWTON	IA (US)
IAP	LOC BC RWY 30			KALO	WATERLOO	IA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 23

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

1. UPDATED COORDINATES FOR HOLDING PAT 1 CONTROLLING OBSTACLE.
2. ADDED KDSM ILS OR LOC RWY 05 TO FIX USE.
3. ADDED KOXV RNAV (GPS) RWY 15 TO FIX USE.
4. REMOVED KALO ILS OR LOC RWY 12 FROM FIX USE.
5. ADDED PAT 1 310 CONTROLLING OBSTACLE.
6. RAISED PAT 1 MAX TEMPLATE FROM 9 TO 12.
7. ADDED KTNU - ILS OR LOC RWY 32 TO PROCEDURES REQUIRING CLIMB-IN-HOLD.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: HOPE DENTON**APPROVED BY:****DATE:** 09/05/2024**OFFICE:** AJV-A432**NAME:** CASIMIR TABAKA**SIGNATURE:**

RADIO FIX AND HOLDING DATA RECORD

NAME: PUPCE

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 413020.17N/0930655.26W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 15

FAC

PAT

AIRPORT IDENT
KOVV

CITY
KNOXVILLE

STATE
IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/08/2010

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 07/13/2009

OFFICE: AVN-120

NAME: STEVEN SZUKALA (BETTY RICHARDS)

APPROVED BY:

DATE: 02/04/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: DSM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RUDEH

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 412613.89N/0931903.16W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 15

FAC

PAT

AIRPORT IDENT
KOVX

CITY
KNOXVILLE

STATE
IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/08/2010

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 07/13/2009

OFFICE: AVN-120

NAME: STEVEN SZUKALA (BETTY RICHARDS)

APPROVED BY:

DATE: 02/04/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: DSM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: UKRIC

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 412235.54N/0930935.43W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

RNP CRITERIA APPLIED.

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 15

FAC

PAT

AIRPORT IDENT
KOXV

CITY
KNOXVILLE

STATE
IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/08/2010

REASON FOR REVISION:

MOVED FIX 1455.62 FT (.24 NM) SOUTHEAST TO ESTABLISH RNP PFAF FIX.
DELETED FIX MAKE UP FACILITY.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 07/13/2009

OFFICE: AVN-120

NAME: STEVEN SZUKALA (BETTY RICHARDS)

APPROVED BY:

DATE: 02/04/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: MKC
ARTCC: ZAU
ATC FACILITY: DSM APP CON
OTHER: