

RADIO FIX AND HOLDING DATA RECORD

NAME: WATERLOO VOR/DME STATE: IA COUNTRY: US ICAO REGION CODE: K3
 LATITUDE/LONGITUDE: 423323.39N/0922356.13W TYPE:

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 FEET	MAA
1	WATERLOO	ALO	VOR/DME	L						27000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ALO	VOR/DME	R-184	67	18000	27000

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	ALO	VOR/DME	157.00	337.00	R	1	4000 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (19-000022)	422958.00N/0921551.00W	1540	4D
1	200	TOWER (19-000022)	422958.00N/0921551.00W	1540	4D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAGVAR: E0/2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DES MOINES			KDSM	DES MOINES	IA (US)
DP	ROCHESTER			KANE	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KFCM	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KMSP	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KSTP	ST PAUL	MN (US)
EN ROUTE	J233					IA (US)
EN ROUTE	V100					IA (US)
EN ROUTE	V120					IA (US)
EN ROUTE	V67					IA (US)
EN ROUTE	V77					IA (US)
IAP	LOC RWY 12			KCCY	CHARLES CITY	IA (US)
IAP	VOR OR GPS-A			KOLZ	OELWEIN	IA (US)
IAP	ILS OR LOC RWY 12			KALO	WATERLOO	IA (US)
IAP	LOC BC RWY 30			KALO	WATERLOO	IA (US)
IAP	VOR RWY 12			KALO	WATERLOO	IA (US)
IAP	VOR RWY 18			KALO	WATERLOO	IA (US)
IAP	VOR RWY 24			KALO	WATERLOO	IA (US)
IAP	VOR RWY 6			KALO	WATERLOO	IA (US)
IAP	VOR-A		1	KC25	WAVERLY	IA (US)
STAR	KASPR			KMSP	MINNEAPOLIS	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 09/13/2018

REASON FOR REVISION:

1. AMENDED FAC 1 CLASS FROM "H" TO "L" AND CHANGED MAA FROM 45000 TO 27000.
2. ADDED ESV (FAA 771433-025; FLIGHT CHECK DATE: 04/30/2014); ALLOWS CONTINUED OPERATIONS ON J233 USING ALO VOR/DME AS A LOW FACILITY.
3. AMENDED PAT 1 RAD/CRS INBOUND FROM 151.00/331.00 TO 157.00/337.00.
4. AMENDED PAT 1 MIN HOLDING ALTITUDE FROM 2600 TO 4000 AND MAX HOLDING ALTITUDE FROM 10000 TO 6000.
5. AMENDED PAT 1 MAX HOLDING TEMPLATE FROM 9 TO 5.
6. EVALUATED UNPLANNED HOLDING AT 230 KIAS VICE 200 KIAS (NO CHANGE TO CONTROLLING OBSTACLE OR MIN HOLDING ALTITUDE).
7. AMENDED ASSIGNED FACILITY MAGVAR FROM 6E (1965) TO 0E (2020).
8. DELETED VOR/DME RWY 30 AT KALO FROM FIX USE.

DEVELOPED BY:

DATE: 04/24/2018

OFFICE: AJV-5421

NAME: JOHN THORNTON

APPROVED BY:**DATE:****OFFICE:** AJV-5420**NAME:** JULIE MORGAN**SIGNATURE:****DISTRIBUTION:****NFDC**
FPO: CEN
ARTCC: ZAU
ATC FACILITY:
OTHER: ZMP