

RADIO FIX AND HOLDING DATA RECORD

NAME: DARWIN VORTAC

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 450514.87N/0942713.86W

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	DARWIN	DWN	VORTAC	L						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	E	DWN	VORTAC	097.00	277.00	R	1	2800 6000	4 5
2	E		WP	097.00	277.00	R	4	2800 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-001500)	450551.84N/0942014.99W	1488	2C
2	200	TOWER (27-000562)	450702.00N/0943311.00W	1507	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

HOLDING PAT 2 WAS REQUESTED BY ATC.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 7E 1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DARWIN			KANE	MINNEAPOLIS	MN (US)
DP	KBREW			KANE	MINNEAPOLIS	MN (US)
DP	DARWIN			KFCM	MINNEAPOLIS	MN (US)
DP	KBREW			KFCM	MINNEAPOLIS	MN (US)
DP	DARWIN			KMSP	MINNEAPOLIS	MN (US)
DP	KBREW			KMSP	MINNEAPOLIS	MN (US)
DP	DARWIN			KSTP	ST PAUL	MN (US)
DP	KBREW			KSTP	ST PAUL	MN (US)
EN ROUTE	V171					(US)
EN ROUTE	V78					(US)
IAP	RNAV (GPS) RWY 13			KGYL	GLENCOE	MN (US)
IAP	RNAV (GPS) RWY 31			KGYL	GLENCOE	MN (US)
IAP	VOR-A		1	KLJF	LITCHFIELD	MN (US)
IAP	RNAV (GPS) RWY 32			D39	SAUK CENTRE	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

REMOVED FIX USE: KHCD VOR RWY 33; KSTC ILS OR LOC/DME RWY 13, RNAV (GPS) RWY 13, RNAV (GPS) RWY 31, RNAV (GPS) RWY 5.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: DAYLE

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 453724.75N/0935534.20W

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	GOPHER	GEP	VORTAC	H	315.00	321.00	37.00	37.00	4000	17500
2	ST CLOUD	STC	VOR/DME	T	048.35	051.35	7.14	7.14	4000	12000
3	ALEXANDRIA	AXN	VOR/DME	VL	102.65	109.65		58.42	5000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AXN	VOR/DME	R-103	42	5000	6400

FIX RESTRICTIONS:

MCA V510 5000 NORTHWEST BOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

GOPHER (FAC 1) AND ST CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V510	1, 2, 3				(US)
EN ROUTE	T330					MN (US)
IAP	RNAV (GPS) RWY 31			KRYM	CAMP RIPLEY	MN (US)
IAP	RNAV (GPS) RWY 31			KLXL	LITTLE FALLS	MN (US)
IAP	RNAV (GPS) RWY 16			KPNM	PRINCETON	MN (US)
IAP	RNAV (GPS) RWY 31			KSTC	ST CLOUD	MN (US)
IAP	VOR RWY 31	1, 2, 3		KSTC	ST CLOUD	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 08/10/2023

REASON FOR REVISION:

FIX MAKE-UP: AXN CLASS CHANGED FROM L TO VL.

ESV: CHANGED AXN ESV MAX ALTITUDE TO 6400.

FIX RESTRICTIONS: CHANGED MCA V510 5000 WESTBOUND TO NORTHWEST BOUND.

REMARKS: CHANGED GOPHER (FAC 1) AND ALEXANDRIA (FAC 3) USED TO ESTABLISH FIX COORDINATES TO GOPHER (FAC 1) AND ST CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE: ADDED FAC 1 AND 3 TO VOR RWY 31 AT KSTC.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 08/10/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: PLUGS

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 452727.37N/0933222.65W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

FIX USE:

USE TYPE
EN ROUTE
IAP

USE TITLE
T383
RNAV (GPS) RWY 31

FAC

PAT

AIRPORT IDENT

CITY

STATE
(US)
MN (US)

KSTC

ST CLOUD

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 02/23/2023

REASON FOR REVISION:

CHANGED FIX TYPE FROM INT/DME TO WP ONLY

REMOVED FAC 1 AND FAC 2

REMOVED PAT 1 AND PAT 2 AND ALL ASSOCIATED RESTRICTIONS/REMARKS

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: DAVID TEFFETELLER

APPROVED BY:

DATE: 11/09/2022

OFFICE: AJV-A433

NAME: DAVID TEFFETELLER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: TLBAT

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 453431.10N/0942027.16W

TYPE: WP, INT, DME

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	MAA
1	ALEXANDRIA	AXN	VOR/DME	L	114.22	121.22	43.95	43.95	3400	17500
2	DARWIN	DWN	VORTAC	L	002.24	009.24	29.66	29.66	3400	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AXN	VOR/DME	R-114	44	3400	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (27-001214)	453404.00N/0943047.00W	2217	3C

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3300.

REMARKS:

ALEXANDRIA (FAC 1) USED TO ESTABLISH COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V2	1, 2				(US)
IAP	RNAV (GPS) RWY 32			D39	SAUK CENTRE	MN (US)
IAP	RNAV (GPS) RWY 23			KSTC	ST CLOUD	MN (US)
IAP	RNAV (GPS) RWY 31			KSTC	ST CLOUD	MN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 01/05/2017

REASON FOR REVISION:

UPDATED FIX USE - REMOVED BOTH KMSP APPROACH PROCEDURES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 08/19/2016

OFFICE: AJV-5420

NAME: DANIEL OLSON

APPROVED BY:

DATE: 11/22/2016

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: MSP APP CON, MSP TOWER
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WELOK STATE: MN COUNTRY: US ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 454126.32N/0941528.74W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	312.86	132.86	R	4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-020467)	454311.45N/0942303.45W	1519	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	Q138					(US)
EN ROUTE	Q812					(US)
IAP	RNAV (GPS) RWY 13		1	KSTC	ST CLOUD	MN (US)
IAP	RNAV (GPS) RWY 31		1	KSTC	ST CLOUD	MN (US)

REQUIRED CHARTING: IAP, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. CONTROLLING OBSTRUCTION: UPDATED FROM "1510 AAO 453848.00N/0942109.00W" TO "1519 TOWER (27-020467) 454311.45N/0942303.45W".
2. REQUIRED CHARTING: REMOVED "CONTROLLER" AND ADDED "CONTROLLER HIGH".
3. REMOVED AIRSPACE DOCKET 14-AGL-06.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: MATTHEW TOWNSEND

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUXAL

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 452423.58N/0935202.97W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE		WP	141.00	321.00	L	4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIR SPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-000857)	452259.60N/0934230.90W	2454	1A

REASON FOR NONSTANDARD HOLDING:

PAT 1 TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PAT 1 CONTROLLING OBST LOCATED 5195' INTO SECONDARY AREA.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13		1	KSTC	ST CLOUD	MN (US)
IAP	RNAV (GPS) RWY 13		1	KSTC	ST CLOUD	MN (US)
IAP	RNAV (GPS) RWY 31		1	KSTC	ST CLOUD	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. FIX USE: ADDED IAP "ILS OR LOC RWY 13" AND PAT 1 AT KSTC.
2. REMARKS: PAT 1 CONTROLLING OBSTACLE DISTANCE INTO SECONDARY AREA UPDATED FROM "5356" TO "5195"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: MATTHEW TOWNSEND

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE: