

RADIO FIX AND HOLDING DATA RECORD

NAME: BROKK **STATE:** **COUNTRY:** CA **ICAO REGION CODE:** CY

LATITUDE/LONGITUDE: 421953.00N/0813454.98W **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 FEET	MRA	MAA
1	SALEM	SVM	VORTAC	L	095.29	092.29	89.60	89.60	9000	45000
2	LONDON	YXU	VOR/DME	H	212.48	204.48		46.51	9000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SVM	VORTAC	R-095	90	9000	45000

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	W	SVM	VORTAC	095.29	095.29	R	1 1/2	18000 45000	18 31

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
SALEM (FAC 1) AND LONDON (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HHOWE (RNAV)			KARB	ANN ARBOR	MI (US)
DP	HHOWE (RNAV)			KDET	DETROIT	MI (US)
DP	HHOWE (RNAV)			KDTW	DETROIT	MI (US)
DP	HHOWE (RNAV)			KYIP	DETROIT	MI (US)
DP	HHOWE (RNAV)			KONZ	DETROIT/GROSSE ILE	MI (US)
DP	HHOWE (RNAV)			KOZW	HOWELL	MI (US)
DP	HHOWE (RNAV)			KTTF	MONROE	MI (US)
DP	HHOWE (RNAV)			KMTC	MOUNT CLEMENS	MI (US)
DP	HHOWE (RNAV)			KPTK	PONTIAC	MI (US)
DP	HHOWE (RNAV)			KVLL	TROY	MI (US)
EN ROUTE	J70	1, 2	1			(CA)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 05/16/2024

REASON FOR REVISION:
1. ADDED TO HOLDING PAT 1, MIN TEMPLATE 18.
2. DELETED FIX USE DP BARIi (RNAV) AT CYQG.
3. ADDED CONTROLLER LOW AND CONTROLLER HIGH TO REQUIRED CHARTING.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** MICHAEL MCCARTNEY

APPROVED BY: **DATE:** 05/16/2024 **OFFICE:** AJV-A431 **NAME:** ERIC N SUSKI

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: HHOWE

STATE:

COUNTRY: CA

ICAO REGION CODE: CY

LATITUDE/LONGITUDE: 421523.12N/0822806.06W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HHOWE (RNAV)			KARB	ANN ARBOR	MI (US)
DP	HHOWE (RNAV)			KDET	DETROIT	MI (US)
DP	HHOWE (RNAV)			KDTW	DETROIT	MI (US)
DP	HHOWE (RNAV)			KYIP	DETROIT	MI (US)
DP	HHOWE (RNAV)			KONZ	DETROIT/GROSSE ILE	MI (US)
DP	HHOWE (RNAV)			KOZW	HOWELL	MI (US)
DP	HHOWE (RNAV)			KTTF	MONROE	MI (US)
DP	HHOWE (RNAV)			KMTC	MOUNT CLEMENS	MI (US)
DP	HHOWE (RNAV)			KPTK	PONTIAC	MI (US)
DP	HHOWE (RNAV)			KVLL	TROY	MI (US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/16/2024

REASON FOR REVISION:

1. DELETED FIX USE DP BARII (RNAV) AT CYQG.
2. CHANGED REQUIRED CHARTING FROM CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: MICHAEL MCCARTNEY

APPROVED BY:

DATE: 05/16/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LNCON

STATE:

COUNTRY: CA

ICAO REGION CODE: CY

LATITUDE/LONGITUDE: 421437.39N/0813103.36W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NAME CHANGED FROM LWEMA TO LNCON.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HHOWE (RNAV)			KARB	ANN ARBOR	MI (US)
DP	HHOWE (RNAV)			KDET	DETROIT	MI (US)
DP	HHOWE (RNAV)			KDTW	DETROIT	MI (US)
DP	HHOWE (RNAV)			KYIP	DETROIT	MI (US)
DP	HHOWE (RNAV)			KONZ	DETROIT/GROSSE ILE	MI (US)
DP	HHOWE (RNAV)			KOZW	HOWELL	MI (US)
DP	HHOWE (RNAV)			KTTF	MONROE	MI (US)
DP	HHOWE (RNAV)			KMTC	MOUNT CLEMENS	MI (US)
DP	HHOWE (RNAV)			KPTK	PONTIAC	MI (US)
DP	HHOWE (RNAV)			KVLL	TROY	MI (US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/16/2024

REASON FOR REVISION:

1. DELETED FIX USE DP BARII (RNAV) AT CYQG.
2. ADDED CONTROLLER LOW TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: MICHAEL MCCARTNEY

APPROVED BY:

DATE: 05/16/2024

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: MALTB

STATE:

COUNTRY: CA

ICAO REGION CODE: CY

LATITUDE/LONGITUDE: 421457.48N/0823851.48W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HHOWE (RNAV)			KARB	ANN ARBOR	MI (US)
DP	HHOWE (RNAV)			KDET	DETROIT	MI (US)
DP	HHOWE (RNAV)			KDTW	DETROIT	MI (US)
DP	HHOWE (RNAV)			KYIP	DETROIT	MI (US)
DP	HHOWE (RNAV)			KONZ	DETROIT/GROSSE ILE	MI (US)
DP	HHOWE (RNAV)			KOZW	HOWELL	MI (US)
DP	HHOWE (RNAV)			KTTF	MONROE	MI (US)
DP	HHOWE (RNAV)			KMTC	MOUNT CLEMENS	MI (US)
DP	HHOWE (RNAV)			KPTK	PONTIAC	MI (US)
DP	HHOWE (RNAV)			KVLL	TROY	MI (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/16/2024

REASON FOR REVISION:

1. DELETED FIX USE DP BARII (RNAV) AT CYQG.

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