

RADIO FIX AND HOLDING DATA RECORD

NAME: BRAYMER VOR/DME STATE: MO COUNTRY: US ICAO REGION CODE: K3
 LATITUDE/LONGITUDE: 393750.00N/0935231.00W 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 | MAA |
|-----|---------|-------|---------|-------|---------|----------|-----|------------------|-----|-------|
| 1 | BRAYMER | BQS | 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 LENGTH TIME DME | HOLDING ALTITUDES MIN MAX | TEMPLATES MIN MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|---------------------|---------------------------|-------------------|
| 1 | SW | BQS | VOR/DME | 220.00 | 040.00 | R | 1 | 2700 6000 | 4 5 |
| 2 | NE | BQS | VOR/DME | 054.00 | 234.00 | R | 1-1 1/2 | 8000 17500 | 8 16 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (29-001785) | 394012.00N/0934814.00W | 1238 | 5E |
| 2 | 230 | TOWER (29-001607) | 394500.00N/0933840.00W | 1318 | 5D |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAGVAR: 3 DEGREES EAST.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|--------------------------------|-----|-----|---------------|------------------|---------|
| EN ROUTE | V502 | | | | | (US) |
| IAP | RNAV (GPS) RWY 19 | | | KMKC | KANSAS CITY | MO (US) |
| IAP | ILS OR LOC/DME RWY 18 (ALT MA) | | 1 | KGPH | MOSBY | MO (US) |
| IAP | RNAV (GPS) RWY 36 | | | KGPH | MOSBY | MO (US) |
| STAR | BRAYMER | | 2 | KFLV | FORT LEAVENWORTH | KS (US) |
| STAR | BRAYMER | | 2 | KIXD | OLATHE | KS (US) |
| STAR | BRAYMER | | 2 | KOJC | OLATHE | KS (US) |
| STAR | BRAYMER | | 2 | KMCI | KANSAS CITY | MO (US) |
| STAR | BRAYMER | | 2 | KMKC | KANSAS CITY | MO (US) |
| STAR | BRAYMER | | 2 | KLXT | LEE'S SUMMIT | MO (US) |
| STAR | BRAYMER | | 2 | KGPH | MOSBY | MO (US) |
| STAR | BRAYMER | | 2 | KSTJ | ST JOSEPH | MO (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 09/10/2020

REASON FOR REVISION:

1. DELETED VOR-A FOR K3EX FROM FIX USE - IAP CANCELLED.
2. DELETED NDB RWY 14 FOR KCHT FROM FIX USE - PROCEDURE NO LONGER ACTIVE.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: JAY BAGGETT

APPROVED BY: DATE: OFFICE: AJV-A430 NAME: GEORGE DAVIS

SIGNATURE: *Digitally signed by*
WARDELL HENNING

DISTRIBUTION: NFDC
 FPO: CEN
 ARTCC: ZKC
 ATC FACILITY: MCI APP CON
 OTHER:

Jul 08, 2020



RADIO FIX AND HOLDING DATA RECORD

NAME: NAPOLEON VORTAC

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 390543.53N/0940743.81W

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 | NAPOLEON | ANX | 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 TIME | LENGTH DME | HOLDING ALTITUDES MIN | MAX | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|----------|------------|-----------------------|------|---------------|-----|
| 1 | SE | ANX | VORTAC | 149.00 | 329.00 | R | 1 | | 3000 | 6000 | 4 | 5 |
| 2 | E | ANX | VORTAC | 088.00 | 268.00 | R | 1 | | 2900 | 6000 | 4 | 5 |
| 3 | SE | | WP | 154.93 | 334.93 | R | | 4 | 3700 | 6000 | 5 | 6 |
| 4 | NW | ANX | VORTAC | 319.00 | 139.00 | R | 1 | | 2900 | 6000 | 4 | 5 |
| 5 | SE | ANX | VORTAC | 152.93 | 332.93 | R | 1 | | 3000 | 6000 | 4 | 5 |
| 6 | E | | WP | 093.00 | 273.00 | R | | 4 | 4000 | 6000 | 5 | 6 |
| 7 | E | | WP | 093.00 | 273.00 | R | | 7 | 4000 | 6000 | 9 | 10 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (29-004114) | 390540.00N/0940548.00W | 1842 | 5D |
| 2 | 200 | TOWER (29-004114) | 390540.00N/0940548.00W | 1842 | 5D |
| 3 | 200 | TOWER (29-004114) | 390540.00N/0940548.00W | 1842 | 5D |
| 4 | 200 | TOWER (29-004114) | 390540.00N/0940548.00W | 1842 | 5D |
| 5 | 200 | TOWER (29-004114) | 390540.00N/0940548.00W | 1842 | 5D |
| 6 | 200 | TOWER (29-004114) | 390540.00N/0940548.00W | 1842 | 5D |
| 7 | 265 | TOWER (29-001419) | 390214.00N/0935549.00W | 2046 | 1A |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING PATTERN 7 EVALUATED AT 265 KTS FOR MILITARY TRAFFIC AT KMCI.
ASSIGNED FACILITY MAGVAR: E7 1965.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|---------------------------|-----|-----|---------------|------------------|---------|
| DP | LAKES | | | KFLV | FORT LEAVENWORTH | KS (US) |
| DP | RACER | | | KFLV | FORT LEAVENWORTH | KS (US) |
| DP | LAKES | | | KIXD | OLATHE | KS (US) |
| DP | RACER | | | KIXD | OLATHE | KS (US) |
| DP | LAKES | | | KOJC | OLATHE | KS (US) |
| DP | RACER | | | KOJC | OLATHE | KS (US) |
| DP | LAKES | | | KMCI | KANSAS CITY | MO (US) |
| DP | RACER | | | KMCI | KANSAS CITY | MO (US) |
| DP | LAKES | | | KMKC | KANSAS CITY | MO (US) |
| DP | RACER | | | KMKC | KANSAS CITY | MO (US) |
| DP | LAKES | | | KLXT | LEE'S SUMMIT | MO (US) |
| DP | RACER | | | KLXT | LEE'S SUMMIT | MO (US) |
| DP | LAKES | | | KGPH | MOSBY | MO (US) |
| DP | RACER | | | KGPH | MOSBY | MO (US) |
| DP | LAKES | | | KSTJ | ST JOSEPH | MO (US) |
| DP | RACER | | | KSTJ | ST JOSEPH | MO (US) |
| EN ROUTE | V10 | | | | | (US) |
| EN ROUTE | V12 | | | | | (US) |
| EN ROUTE | V13 | | | | | (US) |
| EN ROUTE | V159 | | | | | (US) |
| EN ROUTE | V161 | | | | | (US) |
| EN ROUTE | V206 | | | | | (US) |
| EN ROUTE | V424 | | | | | (US) |
| IAP | ILS OR LOC RWY 36 | | | KIXD | OLATHE | KS (US) |
| IAP | LOC RWY 18 | 4 | | KOJC | OLATHE | KS (US) |
| IAP | LOC RWY 36 | 4 | | KOJC | OLATHE | KS (US) |
| IAP | ILS OR LOC RWY 19L | 2 | | KMCI | KANSAS CITY | MO (US) |
| IAP | ILS OR LOC RWY 1R | 2 | | KMCI | KANSAS CITY | MO (US) |
| IAP | ILS OR LOC RWY 27 | | | KMCI | KANSAS CITY | MO (US) |
| IAP | ILS OR LOC RWY 9 (ALT MA) | 1 | | KMCI | KANSAS CITY | MO (US) |
| IAP | ILS RWY 1R (CAT II & III) | 2 | | KMCI | KANSAS CITY | MO (US) |
| IAP | ILS RWY 1R (SA CAT I) | 2 | | KMCI | KANSAS CITY | MO (US) |
| IAP | RNAV (GPS) Y RWY 19L | 7 | | KMCI | KANSAS CITY | MO (US) |
| IAP | RNAV (GPS) Y RWY 1R | 6 | | KMCI | KANSAS CITY | MO (US) |
| IAP | RNAV (GPS) Y RWY 27 | | | KMCI | KANSAS CITY | MO (US) |
| IAP | RNAV (RNP) Z RWY 19L | 6 | | KMCI | KANSAS CITY | MO (US) |
| IAP | RNAV (RNP) Z RWY 1R | 7 | | KMCI | KANSAS CITY | MO (US) |
| IAP | ILS OR LOC RWY 19 | | | KMKC | KANSAS CITY | MO (US) |

QUALITY
20
CHECKED

| | | | | | |
|------|-----------------------|---|------|------------------|---------|
| IAP | ILS OR LOC RWY 3 | 5 | KMKC | KANSAS CITY | MO (US) |
| IAP | RNAV (GPS) RWY 21 | 3 | KMKC | KANSAS CITY | MO (US) |
| IAP | VOR-A | 2 | KLXT | LEE'S SUMMIT | MO (US) |
| IAP | ILS OR LOC/DME RWY 18 | 4 | KGPH | MOSBY | MO (US) |
| IAP | RNAV (GPS) RWY 36 | | KGPH | MOSBY | MO (US) |
| IAP | VOR-A | | KRCM | WARRENSBURG | MO (US) |
| STAR | BRAYMER | | KFLV | FORT LEAVENWORTH | KS (US) |
| STAR | TYGER | | KFLV | FORT LEAVENWORTH | KS (US) |
| STAR | BRAYMER | | KIXD | OLATHE | KS (US) |
| STAR | TYGER | | KIXD | OLATHE | KS (US) |
| STAR | BRAYMER | | KOJC | OLATHE | KS (US) |
| STAR | TYGER | | KOJC | OLATHE | KS (US) |
| STAR | BRAYMER | | KMCI | KANSAS CITY | MO (US) |
| STAR | TYGER | | KMCI | KANSAS CITY | MO (US) |
| STAR | BRAYMER | | KMKC | KANSAS CITY | MO (US) |
| STAR | TYGER | | KMKC | KANSAS CITY | MO (US) |
| STAR | BRAYMER | | KLXT | LEE'S SUMMIT | MO (US) |
| STAR | TYGER | | KLXT | LEE'S SUMMIT | MO (US) |
| STAR | BRAYMER | | KGPH | MOSBY | MO (US) |
| STAR | TYGER | | KGPH | MOSBY | MO (US) |
| STAR | BRAYMER | | KSTJ | ST JOSEPH | MO (US) |
| STAR | TYGER | | KSTJ | ST JOSEPH | MO (US) |
| STAR | KAYLA (RNAV) | | KSTL | ST LOUIS | MO (US) |
| STAR | KOOP | | KSTL | ST LOUIS | MO (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24

DATE OF REVISION: 09/10/2020

REASON FOR REVISION:

1. REMOVED VOR-A FOR K3EX FROM FIX USE - IAP CANCELLED.
2. REMOVED VOR/DME-A AND ADDED VOR-A FOR KCRM - IAP NAME UPDATED.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** JAY BAGGETT

APPROVED BY: **DATE:** **OFFICE:** AJV-A430 **NAME:** GEORGE DAVIS

SIGNATURE: *Digitally signed by*
WARDELL HENNING

DISTRIBUTION: **NFDC** Jul 08, 2020
FPO: CEN
ARTCC: ZKC
ATC FACILITY: MCI APP CON, MKC ATCT
OTHER:

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROHJY

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 393004.00N/0941436.95W

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 | NAPOLEON | ANX | VORTAC | L | 340.64 | 347.64 | 24.90 | 24.90 | | 2600 | 17500 |
| 2 | BRAYMER | BQS | VOR/DME | L | 242.70 | 245.70 | | 18.77 | | 2600 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NAPOLEON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------|------|-----|---------------|-------------------|---------|
| IAP | VOR-A | 1, 2 | | K3EX | EXCELSIOR SPRINGS | MO (US) |

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/20/2015

REASON FOR REVISION:

UPDATE FIX COORDINATES, FIX MOVED 1055 FEET (0.17 NM) WEST.

FAC 1 AND 2: ADD DIST FROM FAC.

ADD REMARKS FOR FIX MAKEUP FACILITIES.

FIX USE: CHANGED VOR OR GPS RWY 19, TO VOR-A.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE:

OFFICE:

NAME:

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

Digitally signed by

WARDELL HENNING

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZKC

ATC FACILITY: MCI APP CON

OTHER:

Jul 08, 2020

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TRAVL

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 392510.79N/0941313.52W

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 FAC NM | FEET | MRA | MAA |
|-----|----------|-------|---------|-------|---------|----------|-------|---------------------|--------|------|-------|
| 1 | NAPOLEON | ANX | VORTAC | L | 340.64 | 347.64 | 19.90 | 19.90 | 120915 | 2600 | 17500 |
| 2 | BRAYMER | BQS | VOR/DME | L | 228.84 | 231.84 | | 20.41 | | 2600 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

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 | N | ANX | VORTAC | 340.64 | 160.64 | L | 1 | 2600 10000 | 5 10 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (29-001565) | 392548.04N/0941335.08W | 1372 | 1A |

REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID ADJACENT AIRWAY

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

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

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------|------|-----|---------------|-------------------|---------|
| IAP | VOR-A | 1, 2 | 1 | K3EX | EXCELSIOR SPRINGS | MO (US) |

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/20/2015

REASON FOR REVISION:

UPDATE FIX COORDINATES, FIX MOVED 837 FEET (0.14 NM) WEST.
FAC 1: CHANGED MAG/TRUE BRG FROM 341.04/348.04 TO 340.64/347.64, ADD DIST FROM FAC.
FAC 2: ADD DIST FROM FAC.
HOLDING PATTERN: CHANGED RAD/CRS/BRG FROM 341.04 TO 340.64, CRS INBOUND FROM 161.04 TO 160.64, MIN TEMPLATE FROM 7 TO 5.
CONTROLLING OBSTRUCTION: CHANGED AIRSPEED FROM 230 TO 200, OBSTRUCTION FROM 1376(5D) MSL TOWER (SAME OBSTACLE, NEW SURVEY) TO 1372 MSL(1A) TOWER.
ADD REMARKS FOR FIX MAKEUP FACILITIES.
FIX USE: CHANGED VOR OR GPS RWY 19, TO VOR-A.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE:

OFFICE:

NAME:

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

Digitally signed by

WARDELL HENNING

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: MCI APP CON
OTHER:

Jul 08, 2020

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZISGI

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 392023.39N/0941152.12W

TYPE: 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 | NAPOLEON | ANX | VORTAC | L | 340.64 | 347.64 | 15.00 | 15.00 | | 1560 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------|-----|-----|---------------|-------------------|---------|
| IAP | VOR-A | 1 | | K3EX | EXCELSIOR SPRINGS | MO (US) |

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/20/2015

INITIATED BY: DATE: ORGANIZATION: NAME:

DEVELOPED BY: DATE: OFFICE: NAME:

APPROVED BY: DATE: OFFICE: AJV-A430 NAME: GEORGE DAVIS

SIGNATURE: *Digitally signed by*
WARDELL HENNING

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: MCI APP CON
OTHER:

QUALITY
20
CHECKED