| Flight Procedure Tracking Form | Action: CANCELLATION | Task Type: AWSEG | Date Open: 09/25/2012 | Task #: 2012053023697702001 | Request #: 20120530236977 |
|---|---|---|---|---|---|
| Procedure: V 345 HAYWARD (HYR) VOR/DME WI TO ASHLAND (ASX) VOR/DME WI AMDT N | | Airport ID: WI | Airport: | | Reimbursable #: |
| City: | ST: WI | GPS #: | | Estimated Chart Date: 05/02/2013 | FICO #: |
| Fac ID: | Fac. Type: | | Specialist: SCOTT BAGENSIE | | |

## Procedure Review

| | Rec'd | Rel'd | Full Name | Comments |
|---|---|---|---|---|
| Lead: | | | | |
| QA: | | | ERIC GREEN | 11/27/2012 EG |
| Liaison: | | | | |

**Procedure Comments:** ENROUTE **Remark Type:** INFORMATION

ATTACHED FORMS: 8260-16, 8260-2'S: (CANCEL) ASHLAND VDME (VER. 5)WI., AMENDED GRASS (AMDT. 10)WI., AMENDED WASPS DME (AMDT 8)WI., AMENDED WEMAN (AMDT 4)WI.
CONTACT: TOBY HUFF, AJV-311 LEAD, 405.954.9954.

QA B APPROVED

NOV 28 2012 MB

## ESV Details

| | | | |
|---|---|---|---|
| Originating Office : | Airspace Docket Number : | Request Type : Establish | |
| **Facility Data** | | | |
| Chart Name : HIBBING | City : HIBBING | Ident : HIB | State : MN |
| Type/Class : L-VOR | Frequency : M110.8 | Reference No.: 12108620 | |

**Expanded Service Volume Data: (Requesting Officer)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude |
|---|---|---|---|---|---|
| FAA 690724-007 | 100 | 0 | 50 | 40 | 175 |

Requirement: FIX WEMAN-REPLACING ASX VOR/DME FOR INT

| | | |
|---|---|---|
| Signature: Bagensie Scott | Routing Symbol: AJV-312 | Date: 10/04/2012 |

**Expanded Service Volume Data: (FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 690724-007 | 100 | 0 | 50 | 40 | 175 | APPROVE |

Requirement/Remarks: FIX WEMAN-REPLACING ASX VOR/DME FOR INTAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

| | | |
|---|---|---|
| Signature: Vu Peter | Routing Symbol: | Date: 10/09/2012 |

**Expanded Service Volume Data: (Super FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 690724-007 | 100 | 0 | 50 | 40 | 175 | APPROVE |

Requirement/Remarks: FIX WEMAN-REPLACING ASX VOR/DME FOR INTAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

| | | |
|---|---|---|
| Signature: CHRISTEIN THOMAS | Routing Symbol: | Date: 10/10/2012 |

**Expanded Service Volume Data: (FIFO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 690724-007 | 100 | 0 | | | | |

Requirement/Remarks:

| | | |
|---|---|---|
| Signature: | Routing Symbol: | Date: |

QA B APPROVED

# ESV Details

| | | | |
|---|---|---|---|
| Originating Office : | Airspace Docket Number : | Request Type : Establish | |
| **Facility Data** | | | |
| Chart Name : HIBBING | City : HIBBING | Ident : HIB | State : MN |
| Type/Class : DME | Frequency : M1006 | Reference No.: 12108621 | |

**Expanded Service Volume Data: (Requesting Officer)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude |
|---|---|---|---|---|---|
| FAA 702643-003 | 100 | 0 | 50 | 40 | 175 |

Requirement: FIX WEMAN: REPLACING ASX VOR/DME FOR INT

| | | |
|---|---|---|
| Signature: Bagensie Scott | Routing Symbol: AJV-312 | Date: 10/04/2012 |

**Expanded Service Volume Data: (FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 702643-003 | 100 | 0 | 50 | 40 | 175 | APPROVE |

Requirement/Remarks: FIX WEMAN: REPLACING ASX VOR/DME FOR INTAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

| | | |
|---|---|---|
| Signature: Vu Peter | Routing Symbol: | Date: 10/09/2012 |

**Expanded Service Volume Data: (Super FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 702643-003 | 100 | 0 | 50 | 40 | 175 | APPROVE |

Requirement/Remarks: FIX WEMAN: REPLACING ASX VOR/DME FOR INTAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

| | | |
|---|---|---|
| Signature: CHRISTEIN THOMAS | Routing Symbol: | Date: 10/10/2012 |

**Expanded Service Volume Data: (FIFO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 702643-003 | 100 | 0 | | | | |

Requirement/Remarks:

| | | |
|---|---|---|
| Signature: | Routing Symbol: | Date: |

QA B APPROVED

# TRANSMITTAL OF AIRWAYS / ROUTE DATA



| AIRWAY NO. OR ROUTE | FROM / TO | ROUTINE OR DOCKET NO. | CONTROLLING @ TERRAIN/OBSTRUCTION AND COORDINATES | MRA / MOCA | MAA / MEA | GNSS MEA | CHANGE OVER POINT | FIX MRA/MCA | REMARKS | FLIGHT INSPECTION DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| V345 | HAYWARD(HYR),VOR/DME,WI<br>* GRASS, WI | | 1960 AAO<br>460309N/911700W<br>1760 TERRAIN @<br>460309N/911700W | 10000<br>3000 | 17500<br>10000 | 4000 | | *MRA<br>6000<br>*MCA<br>10000<br>SW | CANCEL SEGMENT<br>ASX VOR/DME DECOM | ON FILE |
| | | | | | | | | | | |
| V345 | GRASS, WI<br>ASHLAND(ASX),VOR/DME,WI | | 1805 AAO<br>461828N/910332W<br>1355 TERRAIN @<br>463433N/905836W | 4000<br>2900 | 17500<br>4000 | | | | CANCEL SEGMENT<br>ASX VOR/DME DECOM | ON FILE |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| DATE | OFFICE | TITLE | SIGNATURE |
|---|---|---|---|
| | AJV-312 | MANAGER | DEZ SILAGYI |

QA B APPROVED

FAA FORM 8260-16 / October 2002 (computer generated)

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** GRASS **STATE:** WI **COUNTRY:** US

**LATITUDE/LONGITUDE:** 462110.12N/0910652.88W **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 | FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DULUTH | DLH | VORTAC | H | 115.52 | 120.52 | 52.50 | 52.50 | | 6000 | 17500 |

**HOLDING:** **HOLDING TYPE OF ACTION:** CANCEL

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V217 | 1 | | | | WI (US) |
| IAP | LOC/DME RWY 2 | 1 | | KASX | ASHLAND | WI (US) |
| IAP | RNAV (GPS) RWY 13 | | | KASX | ASHLAND | WI (US) |
| IAP | RNAV (GPS) RWY 31 | | | KASX | ASHLAND | WI (US) |
| IAP | GPS RWY 34 | | | K3CU | CABLE | WI (US) |
| IAP | LOC/DME RWY 20 | | | KHYR | HAYWARD | WI (US) |
| IAP | RNAV (GPS) RWY 18 | | | KPKF | PARK FALLS | WI (US) |
| IAP | RNAV (GPS) RWY 19 | | | KOLG | SOLON SPRINGS | WI (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 10 **DATE OF REVISION:** 05/02/2013

**REASON FOR REVISION:**
1. DELETED FAC 2 (ASX VOR/DME) AND 3 (TELUE WP).
2. DELETED BACK-UP FACILITY.
3. DELETED HOLDING PATTERN.
4. REMOVED FIX RESTRICTIONS.
5. REMOVED INT FROM FIX MAKE-UP.
6. ADDED DISTANCE FROM FACILITY TO FAC 1.
7. UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 10/25/2012 **OFFICE:** AJV-312 **NAME:** TOBY HUFF (SCOTT BAGENSIE)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-312 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** CEN
**ARTCC:** ZMP
**ATC FACILITY:** DLH ATCT
**OTHER:**

Q.A. B APPROVED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WASPS **STATE:** WI **COUNTRY:** US

**LATITUDE/LONGITUDE:** 463807.69N/0905304.47W **TYPE:** 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 | DIST FROM FAC FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | IRONWOOD | IWD | VORTAC | L | 280.44 | 281.44 | 32.01 | 32.01 | | 3500 | 17500 |

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V 191 | | | | | WI (US) |
| EN ROUTE | V 430 | | | | | WI (US) |
| IAP | RNAV (GPS) RWY 13 | | | KASX | ASHLAND | WI (US) |
| IAP | RNAV (GPS) RWY 31 | | | KASX | ASHLAND | WI (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 8 **DATE OF REVISION:** 05/02/2013

**REASON FOR REVISION:**
1. DELETED FAC 2 (ASX DECOMMISION NFDD 5/3/2013).
2. REMOVED INT FROM FIX TYPE.
3. DELETED FAC 2 ESV.
4. UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 10/19/2012 **OFFICE:** AJV-311 **NAME:** TOBY HUFF (SCOTT BAGENSIE)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-311 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** CEN
**ARTCC:** ZMP
**ATC FACILITY:**
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WEMAN **STATE:** MN **COUNTRY:** US

**LATITUDE/LONGITUDE:** 471032.95N/0913102.37W **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 | DIST FROM FAC FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DULUTH | DLH | VORTAC | H | 046.21 | 051.21 | 36.00 | 36.00 | | 4000 | 17500 |
| 2 | HIBBING | HIB | VOR/DME | L | 096.40 | 098.40 | 49.10 | 49.10 | | 4000 | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| HIB | VOR/DME | R-096 | 50 | 4000 | 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 | LEG LENGTH DME | HOLDING ALTITUDES MIN | HOLDING ALTITUDES MAX | TEMPLATES MIN | TEMPLATES MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NE | | WP | 041.35 | 221.35 | R | | 4 | 3300 | 14000 | 5 | 11 |
| 2 | NE | | WP | 053.25 | 233.25 | R | | 4 | 3300 | 6000 | 5 | 6 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 230 | AAO | 471912.00N/0912857.00W | 1916 | 4E |
| 2 | 200 | AAO | 471330.00N/0913612.00W | 1884 | 4E |
| 2 | 310 | AAO | 472548.90N/0912800.40W | 2270 | 6A |

**HOLDING RESTRICTIONS:**
HOLDING RESTRICTED TO ESTABLISHED PATTERNS.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|
| 2 | RNAV (GPS) RWY 25 | KBFW | SILVER BAY | MN (US) |

**REMARKS:**
DULUTH (FAC 1) USED TO ESTABLISH FIX COORDINATES
DO NOT CHART HOLDING ON ENROUTE LOW CHART.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V13 | 1, 2 | | | | MN (US) |
| IAP | RNAV (GPS) RWY 25 | | 2 | KBFW | SILVER BAY | MN (US) |
| IAP | RNAV (GPS) RWY 22 | | | KSUW | SUPERIOR | WI (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 4 **DATE OF REVISION:** 05/02/2013

**REASON FOR REVISION:**
1. DELETED FAC 2 (ASX VOR/DME).
2. ADDED FAC 2 (HIB VOR/DME).
3. CHANGED FIX ESV FROM FAC ASX TO FAC HIB.
4. RAISED FAC 1 MRA FROM 3100 TO 4000.
5. UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 10/04/2012 **OFFICE:** AJV-311 **NAME:** TOBY HUFF (SCOTT BAGENSIE)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-311 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** CEN
**ARTCC:** ZMP
**ATC FACILITY:** DLH ATCT
**OTHER:**

QA B APPROVED

# RADIO FIX AND HOLDING DATA RECORD

CANCELED

**NAME:** ASHLAND VOR/DME **STATE:** WI **COUNTRY:** US

**LATITUDE/LONGITUDE:** 463257.88N/0905502.11W **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 | ASHLAND | ASX | VOR/DME | T | | | | | | | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| R-213/40NM/40-175 | | | | | |

**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 | SW | ASX | VOR/DME | 203.86 | 023.86 | R | 1 | | 2900 | 6000 | 5 | 6 |
| 2 | SE | ASX | VOR/DME | 122.48 | 302.48 | R | 1 | | 2700 | 6000 | 5 | 6 |
| 3 | NE | ASX | VOR/DME | 048.63 | 228.63 | R | 1 | | 3000 | 6000 | 4 | 6 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | 200' AAO | 462251.00N/0905945.00W | 1365 | 4E |
| 2 | 200 | 200' AAO | 463009.00N/0905830.00W | 1227 | 4E |
| 3 | 200 | TOWER (50-0228) | 463650.00N/0904926.00W | 1239 | 4D |

**REMARKS:**
HOLDING LIMITED TO ESTABLISHED PATTERNS.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V345 | | | | | (US) |
| IAP | DULUTH INTL - COPTER ILS OR LOC RWY 27, COPTER ILS RWY 9, ILS OR LOC RWY 27, ILS RWY 9, ILS RWY 9 (CAT II), VOR OR TACAN OR GPS RWY 3, VOR/DME OR TACAN RWY 21 | | | KDLH | DULUTH | MN (US) |
| IAP | JOHN F. KENNEDY MEMORIAL - VOR RWY 2 (PAT 1), VOR RWY 31 (PAT 2), LOC/DME RWY 2 (PAT 3) | | | KASX | ASHLAND | WI (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 5 **DATE OF REVISION:** 06/05/2008

**REASON FOR REVISION:**
CHANGED PATTERN 1 R/C/B FROM 205.00 TO 203.86, CRS INBOUND FROM 025.00 TO 023.86.
CHANGED PATTERN 2 R/C/B FROM 123.00 TO 122.48, CRS INBOUND FROM 303.00 TO 302.48.
UPDATE FIX USE.

**DEVELOPED BY:** **DATE:** 01/07/2008 **OFFICE:** AVN-120 **NAME:** THOMAS KIRKPATRICK

**APPROVED BY:** **DATE:** 03/12/2008 **OFFICE:** AVN-120 **NAME:** JOHN BICKERSTAFF

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** CEN
**ARTCC:** ZMP
**ATC FACILITY:**
**OTHER:**

CANCELED

CANCELLED
BY
DATE 10/19/2012

QA 3 APPROVED