U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## TERMINAL ROUTES

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|---|---|---|---|
| MODDS INT/40.53 DME | NICIC/12.00 DME | 108.07 / 28.53 (MDO R-288) | 2500 |
| DEALS INT/40.33 DME | INZAT/12.00 DME | 097.27 / 28.33 (MDO R-277) | 2500 |
| IDAME/24.00 DME | INVOW/12.00 DME | 244.62 / 12.00 (MDO R-065) | 2500 |
| MDO VOR/DME | IKGUT/6.00 DME | 017.05 / 6.00 | 2000 |
| NICIC/12.00 DME CW (IAF) | LODIC/12.00 DME (NOPT) | 12.00 DME ARC | 1500 |
| INZAT/12.00 DME CW (IAF) | LODIC/12.00 DME (NOPT) | 12.00 DME ARC | 1500 |
| INVOW/12.00 DME CCW (IAF) | LODIC/12.00 DME (NOPT) | 12.00 DME ARC | 1500 |
| LODIC/12.00 DME (IF) | IKGUT/6.00 DME | 197.05 / 6.00 (MDO R-017) | 1300 |

## MISSED APPROACH

MAP: MUDKE/ 2.28 DME

CLIMB TO 2000 DIRECT MDO VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2000.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 017.05 INBOUND.
CHART FAS OBST: 153 TOWER 592741N/1461811W
CHART MDO R-065 AT INVOW.
CHART MDO R-288 AT NICIC.
CHART MDO R-277 AT INZAT.
IKGUT TO RW19: 2.92/45.
FAC CROSSES RWY C/L EXTENDED 2906 FT FROM THLD.

1. PT L SIDE OF COURSE 017.05 OUTBOUND 1500 FT WITHIN 10 MILES OF IKGUT (IAF)
2.
3. FAC 197.05 FAP IKGUT/6.00 DME DIST FAF TO MAP THLD 3.72
4. MIN. ALT IKGUT 1300
8. MSA FROM: MDO VOR/DME 1500

MAG VAR: 21E EPOCH YEAR: 2005

## MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD

| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA |
| S-19 | 660 | 1 | 560 | 660 | 1 | 560 | 660 | 1 5/8 | 560 | | NA | | | | |
| CIRCLING | 660 | 1 | 560 | 660 | 1 | 560 | 660 | 1 5/8 | 560 | | NA | | | | |

NOTES:

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 100 THRE: 100 AIRPORT NAME: | FACILITY IDENTIFIER: | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: | SUP |
|---|---|---|---|---|
| MIDDLETON ISLAND, AK | MIDDLETON ISLAND | MDO | VOR/DME RWY 19, AMDT 6 | AMDT 5A |
| | | | | DATE 07/29/2010 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| [ ] YES [X] NO | | ROUTINE |

COORDINATED WITH:

| ATA | AAT | ALPA | APA | AOPA | NBAA | OTHER (specify) |
|---|---|---|---|---|---|---|
| [ ] | [ ] | [X] | [ ] | [X] | [X] | [X] ZAN ARTCC, APT MGR |

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| | | |

| DEVELOPED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| ADOLFO URRUTIA (MICHAEL R. GARRITY JR.) | AJV-354 | 04/20/2012 |

| APPROVED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| DEZ SILAGYI MANAGER | AJV-354 | |

CHANGES:

1. CHANGED MODDS INT TO MDO VOR/DME DISTANCE FROM 41.07 NM TO 40.53 NM.
2. CHANGED MODDS INT TO NICIC COURSE FROM 111.90 TO 108.07.
3. CHANGED MODDS INT TO NICIC DISTANCE FROM 29.07 NM TO 28.53 NM.
4. CHANGED MODDS INT TO NICIC COURSE RADIAL FROM MDO R-293 TO MDO R-288.
5. CHANGED DEALS INT TO INZAT COURSE FROM 096.26 TO 097.27.
6. ADDED IDAME FEEDER FIX TO V440 / ADDED IDAME TO INVOW FEEDER SEGMENT / ADDED CORRESPONDING COURSE, DISTANCES, AND CONTROLLING OBSTRUCTION.
7. ADDED MDO VOR/DME TO IKGUT FEEDER SEGMENT / ADDED CORRESPONGING COURSE, DISTANCES, AND CONTROLLING OBSTRUCTION.
8. ADDED MUDKE FIX AS MAP.
9. CHANGED MA ALTITUDE FROM 1500 FT TO 2000 FT AND ADDED CIH TO 2000.
10. CAT C SI / CIRCLING VISIBILITY RAISED FROM 1 1/2 SM TO 1 5/8 SM.
11. CHANGED MA HOLD INBOUND HEADING FROM 021 TO 017 TO MATCH FEEDER FROM MDO TO PT FIX.
12. UPDATED MODDS INT TO NICIC FEEDER SEGMENT CONTROLLING OBSTRUCTION.
13. UPDATED DEALS INT TO INZAT FEEDER SEGMENT, ALL ARCING INITIAL / INTERMEDIATE SEGMENTS, AND MSA CONTROLLING OBSTRUCTIONS.
14. UPDATED FINAL CONTROLLING OBSTRUCTION.

SEE 8260-10

REASONS:

1-4. FPT REQUEST - V440 AIRWAY REALIGNED.
5. INZAT FIX MOVED 6.33 FEET NORTH.
6. DG
7. ROUTING FROM MA CLEARANCE LIMIT BACK TO PT FIX.
8. IAW 8260.19E, PARA 2-64A(4).
9. MIN ALTITUDE IN NEW FEEDER SEGMENT - 200'+2000' ROC-300' MOUNTAINOUS ROC ADJ + 100' DG ADJ.
10,14. NEW FINAL CONTROLLING OBSTRUCTION / IAPA DATABASE UPDATE.
11. MATCH FEEDER FROM MDO TO IKGUT IAF FOR PT DIRECTION.
12. RNAV (GPS) RWY 1 IAP CONTROLLING OBSTRUCTION FOR SAME SEGMENT.
13. 200 FOOT SHIP HEIGHT USED OUTSIDE FINAL/MISSED SEGMENTS.
15. IAPA DATABASE UPDATE.

QUALITY
7
RECEIVED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

**VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE**
**FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 100 THRE: 100<br>AIRPORT NAME: | FACILITY IDENTIFIER: | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| **MIDDLETON ISLAND, AK** | **MIDDLETON ISLAND** | **MDO** | **VOR/DME RWY 19, AMDT 6** | AMDT: **5A** |
| | | | | DATED: **07/29/2010** |

| ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | FIFO | DATE: |
| **APPROVED BY** | | |
| NAME: | FIFO | DATE: |

CHANGES:

**CHANGES CONT.**

**15. UPDATED PT INITIAL SEGMENT / CIRCLING SEGMENT CONTROLLING OBSTRUCTION.**

REASONS:

# STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

| 1. APP SEGMENT | FROM | TO | OBSTRUCTION | COORDINATES | ELEV. MSL | ROC | ALT. ADJUSTMENTS | MIN. ALT. |
|---|---|---|---|---|---|---|---|---|
| FEEDER | MODDS INT/40.53 | NICIC/12.00 DME | 1. AAO | 595221.97N/1472240.11W | 399 (4D) | 2000 | AT101 | 2500 |
| | DME | | 2. TERRAIN | 595218.00N/1472036.00W | 30 (0) | | AS1500 | 1500 |
| FEEDER | DEALS INT/40.33 | INZAT/12.00 DME | 3. SHIP | 593527.12N/1470840.59W | 200 (4D) | 2000 | AT300 | 2500 |
| | DME | | 4. WATER | 593527.12N/1470840.59W | 0 (0) | | AS1500 | 1500 |
| FEEDER | IDAME/24.00 DME | INVOW/12.00 DME | 5. SHIP | 592430.52N/1454100.05W | 200 (4D) | 2000 | AT300 | 2500 |
| | | | 6. WATER | 592430.52N/1454100.05W | 0 (0) | | AS1500 | 1500 |
| FEEDER | MDO VOR/DME | IKGUT/6.00 DME | 7. TREE | 592530.23N/1462045.22W | 169 (4D) | 2000 | MT-300 DG100 | 2000 |
| | | | 8. TERRAIN | 592530.23N/1462045.22W | 149 (100) | | AS1500 | 1600 |
| INITIAL: ARC | NICIC/12.00 DME | LODIC/12.00 DME | 9. SHIP | 594008.96N/1462241.54W | 200 (4D) | 1000 | | 1200 |
| | CW | | 10. WATER | 594008.96N/1462241.54W | 0 (0) | | AS1500 | 1500 |
| INITIAL: ARC | INZAT/12.00 DME | LODIC/12.00 DME | 9. SHIP | 594008.96N/1462241.54W | 200 | 1000 | | 1200 |
| | CW | | 10. WATER | 594008.96N/1462241.54W | 0 (0) | | AS1500 | 1500 |
| INITIAL: ARC | INVOW/12.00 DME | LODIC/12.00 DME | 11. SHIP | 593538.37N/1460714.67W | 200 (4D) | 1000 | | 1200 |
| | CCW | | 12. WATER | 593538.37N/1460714.67W | 0 (0) | | AS1500 | 1500 |
| 2. PROCEDURE TURN | IKGUT | 10 NM | 14. SHIP | 593839.04N/1461107.74W | 200 (4D) | 1000 | | 1200 |
| | | | 15. WATER | 593839.04N/1461107.74W | 0 (0) | | AS1500 | 1500 |
| 3. MISSED APPROACH MAP: | MUDKE/ 2.28 DME | MDO VOR/DME | | | | ASC | | 2000 |
| | | | 16. TOWER (02-000291) | 592540.00N/1462017.00W | 170 (5E) | 1000 | | 1200 |
| ELEV: | 410 | | 8. TERRAIN | 592521.00N/1462054.00W | 168 (200) | | AS1000 | 1200 |

| 4. CIRCLING AREA | DISTANCE | | HT. ABV. ARPT. | | |
|---|---|---|---|---|---|
| CATEGORY A | 1.3 NM | REQUIRED | 350 | ACTUAL | 560 |
| CATEGORY B | 1.5 NM | | 450 | | 560 |
| CATEGORY C | 1.7 NM | | 450 | | 560 |
| CATEGORY D | 2.3 NM | | 550 | | |
| CATEGORY E | 4.5 NM | | 550 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 16. TOWER (02-000291) | 592540.00N/1462017.00W | 170 (5E) | 300 | SI | 660 |
| 16. TOWER (02-000291) | 592540.00N/1462017.00W | 170 (5E) | 300 | SI | 660 |
| 16. TOWER (02-000291) | 592540.00N/1462017.00W | 170 (5E) | 300 | SI | 660 |

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: MDO VOR/DME

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A |
|---|---|---|---|---|---|---|---|---|---|
| 360-360 | SHIP | 071/ 20.5 | 200 (4D) | 1500 | | | | | |

QUALITY CHECKED

| CITY AND STATE | | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| MIDDLETON ISLAND, AK | ELEVATION: 100<br>AIRPORT NAME: MIDDLETON ISLAND | MDO | VOR/DME RWY 19, AMDT 6 | AAL |

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | 3. ALTIMETER SETTING |
|---|---|---|
| JNU FSS<br>ZAN ARTCC<br><br>SATISFACTORY ON: | [ ] NWS OTHER: AWOS-3<br>[ ] FAA<br>[ ] A/C | SOURCE: PAMD<br>DISTANCE:<br>HOURS REMOTE OPERATION: |
| [X] VHF [X] UHF [ ] HF | LOCATION: PAMD | ADJUSTMENT: 0 |

| | | |
|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: MDO VOR/DME | |
| | MONITOR POINT: POCC | |
| | HRS OPTN: CAT 1 | 24 |
| | HRS OPTN: CAT 3 | |

| 5. APPROACH & RUNWAY LIGHTING | |
|---|---|
| | ALS |
| | (S) SALS |
| | MALS |
| | HIRL |
| | MIRL |
| | REIL |
| | TDZ |
| | C/LINE |
| | OTHER (SPECIFY) |

| | | | |
|---|---|---|---|
| 6. RUNWAY MARKINGS | BASIC | | |
| | ALL WEATHER | | |
| | INSTRUMENT | | |
| 7. RUNWAY VISUAL RANGE | APPROACH | | |
| | MIDFIELD | | |
| | ROLL OUT | | |
| 8. GLIDE PATH | GP ANGLE: | ELEV RWY THRESHOLD: | |
| | DISTANCE FROM RWY: | ELEV GP ANTENNA: | |
| | | THRESHOLD CROSSING HEIGHT: | |

| 9. FINAL APPROACH COURSE AIMING | | | |
|---|---|---|---|
| | [ ] | RUNWAY THRESHOLD | FT. FROM THRESHOLD |
| | [X] | ON CENTERLINE | FT. FROM CENTERLINE |

10. WAIVERS: NONE

| | |
|---|---|
| PART D - PREPARED BY: ADOLFO URRUTIA (MICHAEL R. GARRITY JR.) | DATE: 04/20/2012 |
| TITLE: AERONAUTICAL INFORMATION SPECIALIST | OFFICE: AJV-354 |

## PART C - REMARKS:

VDP NOT ESTABLISHED - NO SURVEYS ACCOMPLISHED.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

UNABLE TO VERIFY RWY 01/19 VISUAL SURFACES DUE TO LACK OF SURVEY.

MSA RAISED TO MATCH PUBLISHED MSA.

ALTERNATE ALTIMETER SOURCE NOT AVAILABLE.

2015 EPOCH YEAR MAGVAR VALUE IS -18E. MAGVAR NOT UPDATED PER FPT.

AAO'S NOT USED ON MIDDLETON ISLAND - ISLAND IS FAA OWNED AND ALL OBSTACLES CONSTRUCTED WILL BE SURVEYED. (RETAINED FROM PREVIOUS REVISION).

PROCEDURE NA AT NIGHT DUE TO LACK OF SURVEYS/LIGHTS.

BLOCK 5 / BLOCK 6: ALL RWYS ARE GRAVEL WITH NO MARKINGS AND NO LIGHTS.

SHIP 4D ACCURACY USED IAW RNAV (GPS) RWY 19 AMDT 1 PROCEDURE.

NO ADDITIONAL AIRSPACE REQUIRED.

PAMD ON SERVICE A.

100 FOOT SHIPS USED IN FINAL/MISSED SEGMENTS PER FPT.

20 FOOT VEGETATION USED IN VICINITY OF AIRPORT PER FPT.

QUALITY 1 CHECKED

# STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

| 1. APP SEGMENT | FROM | TO | OBSTRUCTION | COORDINATES | ELEV. MSL | ROC | ALT. ADJUSTMENTS | MIN. ALT. |
|---|---|---|---|---|---|---|---|---|
| INTERMEDIATE | LODIC/12.00 DME | IKGUT/6.00 DME | 11. SHIP | 593538.37N/1460714.67W | 200 (4D) | 500 | DG550 AC50 | 1300 |
| | | | 12. WATER | 593538.37N/1460714.67W | 0 (0) | | AS1000 | 1000 |
| | | | | | | | | |
| INTERMEDIATE: PT | 10 NM | IKGUT/6.00 DME | 11. SHIP | 593538.37N/1460714.67W | 200 (4D) | 500 | DG550 AC50 | 1300 |
| | | | 12. WATER | 593538.37N/1460714.67W | 0 (0) | | AS1000 | 1000 |
| | | | | | | | | |
| FINAL | IKGUT/6.00 DME | MUDKE/ 2.28 DME | 13. TOWER (02-000414) | 592741.00N/1461811.00W | 153 (5F) | 250 | AC250 | 660 |

| 3. MISSED APPROACH | |
|---|---|
| MAP: | |
| | |
| ELEV: | |

| 4. CIRCLING AREA | DISTANCE | HT. ABV. ARPT. | | |
|---|---|---|---|---|
| | | REQUIRED | ACTUAL | |
| CATEGORY A | 1.3 NM | 350 | | |
| CATEGORY B | 1.5 NM | 450 | | |
| CATEGORY C | 1.7 NM | 450 | | |
| CATEGORY D | 2.3 NM | 550 | | |
| CATEGORY E | 4.5 NM | 550 | | |

QUALITY 1 CHECKED

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |

| CITY AND STATE | | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| MIDDLETON ISLAND, AK | ELEVATION: 100<br>AIRPORT NAME: MIDDLETON ISLAND | MDO | VOR/DME RWY 19, AMDT 6 | AAL |

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | 3. ALTIMETER SETTING |
|---|---|---|
| SATISFACTORY ON: | ☐ NWS ☐ FAA ☐ A/C OTHER: | SOURCE:<br>DISTANCE:<br>HOURS REMOTE OPERATION: |
| ☐ VHF ☐ UHF ☐ HF | LOCATION: | ADJUSTMENT: |

| | | |
|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: | |
| | MONITOR POINT: | |
| | HRS OPTN: CAT 1 | |
| | HRS OPTN: CAT 3 | |

| 5. APPROACH & RUNWAY LIGHTING | | |
|---|---|---|
| | ☐ | **ALS** |
| | ☐ | **(S) SALS** |
| | ☐ | **MALS** |
| | ☐ | **HIRL** |
| | ☐ | **MIRL** |
| | ☐ | **REIL** |
| | ☐ | **TDZ** |
| | ☐ | **C/LINE** |
| | ☐ | **OTHER (SPECIFY)** |

| | | |
|---|---|---|
| 6. RUNWAY MARKINGS | BASIC | |
| | ALL WEATHER | |
| | INSTRUMENT | |
| 7. RUNWAY VISUAL RANGE | APPROACH | |
| | MIDFIELD | |
| | ROLL OUT | |
| 8. GLIDE PATH | GP ANGLE: | ELEV RWY THRESHOLD: |
| | DISTANCE FROM RWY: | ELEV GP ANTENNA: |
| | | THRESHOLD CROSSING HEIGHT: |

| 9. FINAL APPROACH COURSE AIMING | | | |
|---|---|---|---|
| | ☐ | RUNWAY THRESHOLD | FT. FROM THRESHOLD |
| | ☐ | ON CENTERLINE | FT. FROM CENTERLINE |

10. WAIVERS:

| | |
|---|---|
| PART D - PREPARED BY: | DATE: |
| TITLE: | OFFICE: |

PART C - REMARKS:

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** DEALS **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 594403.00N/1473110.89W **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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 277.27 | 298.27 | 40.33 | 40.33 | | 6000 | 17500 |
| 2 | JOHNSTONE POINT | JOH | VOR/DME | H | 185.00 | 212.00 | 52.75 | 52.75 | | 6000 | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| MDO | VOR/DME | R-277 | 41 | 6000 | 17500 |
| JOH | VOR/DME | R-185 | 53 | 6000 | 17500 |

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

**REMARKS:**
MIDDLETON ISLAND (FAC 1) AND JOHNSTONE POINT (FAC 2) USED TO ESTABLISH FIX COORDINATES

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V441 | 1, 2 | | | | (US) |
| EN ROUTE | V508 | 1, 2 | | | | (US) |
| IAP | RNAV (GPS) RWY 01 | | | PAMD | MIDDLETON ISLAND | AK (US) |
| IAP | RNAV (GPS) RWY 19 | | | PAMD | MIDDLETON ISLAND | AK (US) |
| IAP | VOR RWY 1 | 1, 2 | | PAMD | MIDDLETON ISLAND | AK (US) |
| IAP | VOR/DME RWY 19 | 1, 2 | | PAMD | MIDDLETON ISLAND | AK (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 4 **DATE OF REVISION:** 11/15/2012

**REASON FOR REVISION:**
ADDED FAC2 TO ESTABLISHING FIX COORDINATES REMARK.
ADDED FAC1 AND FAC2 TO VOR RWY 1 FIX USE.
ADDED FAC1 AND FAC2 TO VOR/DME RWY 19 FIX USE.

**DEVELOPED BY:** **DATE:** 05/01/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** IDAME **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 592659.79N/1453407.31W **TYPE:** DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 064.62 | 085.62 | 24.00 | 24.00 | | 2000 | 17500 |

**REMARKS:**
MIDDLETON ISLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V440 | 1 | | | | (US) |
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 11/15/2012

**DEVELOPED BY:** **DATE:** 05/01/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** IKGUT **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 593001.07N/1461344.74W **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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 017.05 | 038.05 | 6.00 | 6.00 | 36457 | 1300 | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 11/15/2012

**REASON FOR REVISION:**
ADDED FAC1 DISTANCE FROM FAC.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 04/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

GUAM
1
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** INVOW **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 592611.25N/1455734.26W **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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 064.62 | 085.62 | 12.00 | 12.00 | | 2500 | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 11/15/2012

**REASON FOR REVISION:**
ADDED FAC1 DISTANCE FROM FAC.
RAISED FAC1 MRA FROM 1500 TO 2500.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 04/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

QUALITY CHECKED 7

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** INZAT **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 593057.00N/1464144.70W **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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 277.27 | 298.27 | 12.00 | 12.00 | | 2500 | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 11/15/2012

**REASON FOR REVISION:**
ADDED FAC1 DIST FROM FAC.
UPDATED FIX USE.
MOVED FIX 6.33 FT NORTH AND UPDATE COORDINATES.

**DEVELOPED BY:** **DATE:** 04/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** LODIC **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 593443.23N/1460627.40W **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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 017.05 | 038.05 | 12.00 | 12.00 | | 1500 | 17500 |

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

**REMARKS:**
NAME CHANGED FROM (CFFKP) TO LODIC.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 11/15/2012

**REASON FOR REVISION:**
ADDED FAC1 DISTANCE FROM FAC.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 04/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MIDDLETON ISLAND VOR/DME **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 592518.50N/1462100.05W **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 | FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MIDDLETON ISLAND | MDO | VOR/DME | H | | | | | | | 45000 |

**HOLDING:** **HOLDING TYPE OF ACTION:** ESTABLISH

**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 | S | MDO | VOR/DME | 197.05 | 017.05 | R | 1 | | 1900 | 6000 | 4 | 13 |
| 2 | S | MDO | VOR/DME | 199.18 | 019.18 | R | 1 | | 1500 | 6000 | 4 | 5 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | SHIP | 591803.43N/1463029.84W | 200 | 5E |
| 1 | 310 | SHIP | 591803.43N/1463029.84W | 200 | 5E |
| 2 | 200 | SHIP | 591803.43N/1463029.84W | 200 | 5E |

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

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

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|
| 1 | VOR/DME RWY 19 | PAMD | MIDDLETON ISLAND | AK (US) |

**REMARKS:**
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | ANCHORAGE | | | PANC | ANCHORAGE | AK (US) |
| DP | CASEL | | | PACV | CORDOVA | AK (US) |
| EN ROUTE | J179 | | | | | (US) |
| EN ROUTE | J605 | | | | | (US) |
| EN ROUTE | J804R | | | | | (US) |
| EN ROUTE | Q16 | | | | | (US) |
| EN ROUTE | Q17 | | | | | (US) |
| EN ROUTE | T237 | | | | | (US) |
| EN ROUTE | T264 | | | | | (US) |
| EN ROUTE | V440 | | | | | (US) |
| EN ROUTE | V441 | | | | | (US) |
| EN ROUTE | V508 | | | | | (US) |
| IAP | VOR RWY 1 | | 2 | PAMD | MIDDLETON ISLAND | AK (US) |
| IAP | VOR/DME RWY 19 | | 1 | PAMD | MIDDLETON ISLAND | AK (US) |
| STAR | PTERS (RNAV) | | | PANC | ANCHORAGE | AK (US) |
| STAR | WITTI (RNAV) | | | PANC | ANCHORAGE | AK (US) |
| STAR | YESKA | | | PANC | ANCHORAGE | AK (US) |

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

**COMPULSORY REPORTING POINT:** BOTH

**RECORD REVISION NUMBER:** 8 **DATE OF REVISION:** 11/15/2012

**REASON FOR REVISION:**
ADDED PAT1 TO SUPPORT VOR/DME RWY 19.
ADDED PAT2 TO SUPPORT VOR RWY 1.
ADDED HOLDING LIMITED TO ESTABLISHED PATTERNS TO RESTRICTIONS.
ADDED PAT1 TO PROCEDURES REQUIRING CIH.
ADDED IAP TO REQUIRED CHARTING.
ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED REMARK.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 04/18/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

QUALITY 1 CHECKED

**DISTRIBUTION:** **NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MODDS **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 595032.40N/1472321.91W **TYPE:** WP, INT, DME

**AIRSPACE DOCKET:** 11-AAL-1 **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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 288.07 | 309.07 | 40.53 | 40.53 | | 6000 | 17500 |
| 2 | JOHNSTONE POINT | JOH | VOR/DME | H | 185.00 | 212.00 | | 45.13 | | 6000 | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| MDO | VOR/DME | R-288 | 41 | 6000 | 17500 |
| JOH | VOR/DME | R-185 | 46 | 6000 | 17500 |

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

**REMARKS:**
MIDDLETON ISLAND (FAC 1) AND JOHNSTONE POINT (FAC 2) USED TO ESTABLISH FIX COORDINATES

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE (US) |
|---|---|---|---|---|---|---|
| EN ROUTE | V440 | 1, 2 | | | | |
| IAP | RNAV (GPS) RWY 1 | | | PAMD | MIDDLETON ISLAND | AK (US) |
| IAP | RNAV (GPS) RWY 19 | | | PAMD | MIDDLETON ISLAND | AK (US) |
| IAP | VOR RWY 1 | 1, 2 | | PAMD | MIDDLETON ISLAND | AK (US) |
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3 **DATE OF REVISION:** 02/09/2012

**REASON FOR REVISION:**
FIX MOVED 3.37 NM TO NEW CENTERLINE OF V440
CHANGED COORDINATES FROM 595324.90N/1471953.00W
CHANGED FAC 1 MAG AND TRUE BRG FROM 292.75/313.75
CHANGED FAC 2 MAG AND TRUE BRG FROM 185.00/212.00
CHANGED FAC 1 DME FROM 41.07 AND ADDED DIST FROM FAC
ADDED FAC 2 DME AND DIST FROM FAC
CHANGED FAC 1 MRA FROM 10000 TO 5000
CHANGED FAC 2 MRA FROM 10000 TO 6000
REVISED ESV'S FOR FAC 1 AND 2
UPDATED FIX USE

THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 8/3/11.
CHANGED FAC 1 MRA FROM 5000 TO 6000.
CHANGED ESV FOR MDO AND JOH MIN ALTITUDE FROM 5000 TO 6000

**DEVELOPED BY:** **DATE:** 08/03/2011 **OFFICE:** AJV-311 **NAME:** LORETTA ZUEST

**APPROVED BY:** **DATE:** 11/07/2011 **OFFICE:** AJV-311 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:** ANC ATC
**OTHER:**

**INFO ONLY**

QUALITY 1 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MUDKE **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 592706.00N/1461814.75W **TYPE:** DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 017.05 | 038.05 | 2.28 | 2.28 | | 560 | 17500 |

**REMARKS:**
MIDDLETON ISLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 11/15/2012

**DEVELOPED BY:** **DATE:** 05/01/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

QUALITY 1 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** NICIC **STATE:** AK **COUNTRY:** US

**LATITUDE/LONGITUDE:** 593249.86N/1463918.26W **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 | MIDDLETON ISLAND | MDO | VOR/DME | H | 288.07 | 309.07 | 12.00 | 12.00 | | 2500 | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | VOR/DME RWY 19 | 1 | | PAMD | MIDDLETON ISLAND | AK (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 11/15/2012

**REASON FOR REVISION:**
FIX MOVED 5954 FEET SOUTHWEST.
UPDATED FAC1 BEARING FROM 292.75 MAG TO 288.07 MAG.
UPDATED FIX USE.
ADDED DIST FROM FAC TO FAC1.

**DEVELOPED BY:** **DATE:** 04/19/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** WST
**ARTCC:** ZAN
**ATC FACILITY:**
**OTHER:**

QUALITY 1 CHECKED