

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

| (a) Transition Name | (b) Transition Computer Codes | (c) From RNAV WP/ FIX/NAVAID | (d) To RNAV WP/ FIX/NAVAID | (e) Mag Course/ Distance | (f) MEA | (g) MOCA | (h) MAA | (i) Crossing Altitudes / Fixes |
|---------------------|-------------------------------|------------------------------|----------------------------|----------------------------------------------|-------------------------|----------|---------|--------------------------------------------------|
| JAGIR | JAGIR.SWFFT2 | JAGIR LENSE | LENSE SWFFT | 330.46/36.19 316.77/34.14 | FL180 11000 | | | AT/ABOVE FL240 AT/ABOVE 13000, AT/BELOW FL200 |
| VOLUNTEER | VXV.SWFFT2 | VXV VORTAC BAMMA | BAMMA SWFFT | 261.68/65.00 260.39/35.71 | FL180 11000 | | | AT FL200 AT/ABOVE 13000, AT/BELOW FL200 |
| ZANZA | ZANZA.SWFFT2 | ZANZA YUUNS JEBUG | YUUNS JEBUG SWFFT | 037.15/30.71 035.68/10.88 026.12/11.36 | FL180 11000 11000 | | | AT/BELOW FL230 AT/ABOVE 13000, AT/BELOW FL200 |

(2) Arrival Route Description:

FROM OVER SWFFT ON TRACK 315.49/10.00 NM TO CROSS HIMAT AT/ABOVE 10000 (MEA 5000), THEN ON TRACK 315.44/4.00 NM TO WEMAL (MEA 5000), THEN ON TRACK 315.49/7.50 NM TO CROSS ADAAY AT/ABOVE 8000 AND AT/BELOW 12000 AND AT 250 KIAS (MEA 5000), THEN ON ASSIGNED RUNWAY TRANSITION.

LANDING NORTH (RWY 2L/2C/2R): FROM OVER ADAAY ON TRACK 292.47/9.18 NM TO CROSS TEARS AT 6000 AND AT 250 KIAS (MEA 4000), THEN ON TRACK 292.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING SOUTH (RWY 20L/20C/20R): FROM OVER ADAAY ON TRACK 316.14/15.95 NM TO CROSS BRETH AT/ABOVE 6000 AND AT 250 KIAS (MEA 5000), THEN ON TRACK 316.49/5.16 NM TO CROSS CORRA AT/ABOVE 6000 AND AT 220 KIAS (MEA 5000), THEN ON TRACK 316.07/2.00 NM TO HAKUM (MEA 5000), THEN ON TRACK 021.01/2.69 NM TO CROSS SIPPO AT 5000 AND AT 210 KIAS (MEA 5000), THEN ON TRACK 021.01. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(CONTINUED IN BLOCK 16)

(3) Procedural Data Notes:

NOTE: RADAR REQUIRED. **NOTE:** RNAV 1. **NOTE:** DME/DME/IRU OR GPS REQUIRED. **NOTE:** TURBOJET AIRCRAFT ONLY. **NOTE:** EXPECT TO RECEIVE LANDING DIRECTION (NORTH/SOUTH/NORTHWEST) AND "DESCEND VIA" CLEARANCE FROM MEMPHIS CENTER; NASHVILLE APPROACH WILL ISSUE LANDING RUNWAY.

NOTE: LANDING SOUTH INDICATES RWY 20L/20C/20R. LANDING NORTH INDICATES RWY 2L/2C/2R. LANDING NORTHWEST INDICATES RWY 31.

CHART NOTE AT TEARS: LANDING RWY 2L/2C/2R: AFTER TEARS, TRACK 292, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE. **CHART:** CROSS ZANZA AT/ABOVE FL240.

(4) Fixes and/or Holding Patterns:

CHART HOLDING PATTERN: SWFFT (HOLD SE, RT, 315.49 INBOUND, 10 NM LEGS).

(5) Communications: **CHART:** NASHVILLE EAST APPROACH CONTROL (118.4/360.7); NASHVILLE INTL ATIS.

QUALITY
2
CHECKED

| (6) Arrival Name | (7) Number | (8) STAR Computer Code | (9) Superseded Nr. | (10) Dated | (11) Effective Date |
|------------------|------------|------------------------|--------------------|------------|---------------------|
| SWFFT RNAV | TWO | SWFFT.SWFFT2 | ONE | 15 NOV 12 | 24 July 2014 |

| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------|---------------------------|-------------------|----------------------------|
| (12) Airports Served | | | | | |
| Airport Name NASHVILLE INTL | | City/State NASHVILLE, TN | | | |
| Airport Name | | City/State | | | |
| Airport Name | | City/State | | | |
| Airport Name | | City/State | | | |
| Airport Name | | City/State | | | |
| Airport Name | | City/State | | | |
| (13) Lost Communications Procedure: | | | | | |
| (14) Remarks: | | | | | |
| (15) Additional Flight Data: DME/DME ASSESSMENT: SAT (RNP 2.0). REFERENCE MAGNETIC VARIATION: KBNA 3W/2010. | | | | | |
| (6) Arrival Name | (7) Number | (8) STAR Computer Code | (9) Superseded Nr. | (10) Dated | (11) Effective Date |
| SWFFT RNAV | TWO | SWFFT.SWFFT2 | ONE | 15 NOV 12 | 24 July 2014 |

(16) Continuation:**(2) ARRIVAL ROUTE DESCRIPTION (CONTINUED):**

LANDING NORTHWEST (RWY 31): FROM OVER ADAAY ON TRACK 315.40/16.69 TO CROSS ONUGE AT/ABOVE 4000 AND AT 210 KIAS (MEA 4000). EXPECT ILS OR LOC RWY 31 APPROACH.

LANDING RWY 13: FROM OVER ADAAY ON TRACK 307.68/22.24 NM TO CROSS OURRS AT/ABOVE 6000 AND AT 250 KIAS (MEA 5000), THEN ON TRACK 307.68/7.15 NM TO CROSS MEANN AT 5000 AND AT 210 KIAS (MEA 5000), THEN ON TRACK 307.68. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(17) Changes:

1. AMENDED YUUNS TO JEBUG COURSE/DISTANCE FROM 037.29/13.37 TO 035.68/10.88.
2. AMENDED JEBUG TO SWFFT COURSE/DISTANCE FROM 021.13/9.00 TO 026.12/11.36.
3. ADDED RESTRICTION TO CROSS AADAY AT/ABOVE 8000 AND AT/BELOW 12000 AND AT 250 KIAS.
4. DELETED NOTE: LANDING RWY 31: FOR NON-RNP AIRCRAFT: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER ADAAY.
5. AMENDED RWY 2L/2C/2R RUNWAY TRANSITION FROM AADAY TO PUCOR, EXPECT RNAV (RNP) APPROACH TO AADAY TO TEARS THEN ON TRACK 292, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE. ADDED RESTRICTION TO CROSS TEARS AT/ABOVE 6000 AND AT 250 KIAS.
6. ADDED NOTE AT TEARS: LANDING RWY 2L/2C/2R: AFTER TEARS, TRACK 292, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
7. DELETED NOTE: LANDING RWYS 2L/2C/2R: FOR NON-RNP AIRCRAFT: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER ADAAY.
8. INSERTED AADAY TO BRETH SEGMENT PRIOR TO CORRA FOR RWY 20L/20C/20R RUNWAY TRANSITIONS. ADDED RESTRICTION TO CROSS BRETH AT/ABOVE 6000 AND AT 250 KIAS.
9. AMENDED RWY 31 RUNWAY TRANSITION FROM EXPECT RNAV (RNP) APPROACH TO EXPECT ILS OR LOC RWY 31 APPROACH.
10. DELETED HORAT, POVIE, FIBAX, AND NOPOC FROM RWY 13 TRANSITION.
11. AMENDED RWY 13 RUNWAY TRANSITION TO READ: FROM OVER AADAY ON TRACK 307.68/22.24 NM TO CROSS OURRS AT/ABOVE 6000 AND AT 250 KIAS (MEA 5000), THEN ON TRACK 307.68/7.15 NM TO CROSS MEANN AT 5000 AND AT 210 KIAS (MEA 5000), THEN ON TRACK 307.68. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.
12. ADDED ALL SPEED RESTRICTIONS TO ARRIVAL ROUTE INSTRUCTIONS.

(18) Reasons for Changes:

- 1, 2. JEBUG MOVED 2.52 NM SOUTHWEST PER ATC REQUEST. ATC CITES OPERATIONAL REQUIREMENTS TO RETAIN JEBUG FIX NAME.
- 3-11. ATC REQUEST.
12. ARRIVAL ROUTE INSTRUCTIONS SHOULD MATCH CODED ALTITUDE AND SPEED RESTRICTIONS DOCUMENTED ON FORM 7100-3.

11/13/13: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/03/13.

NASHVILLE APPROACH CONTROL CHANGED TO READ NASHVILLE EAST APPROACH CONTROL (118.4/360.7) IN COMMUNICATIONS (BLOCK 5) PER ATC REQUEST.

| | | | | | |
|------------------|-------------------------------------------------|------------------------|--------------------|------------|---------------------|
| Developed By | Name (Typed and Signed), Title and Organization | | | | DATE |
| | | | | | |
| Approved | | | | | |
| | | | | | |
| (6) Arrival Name | (7) Number | (8) STAR Computer Code | (9) Superseded Nr. | (10) Dated | (11) Effective Date |
| SWFFT RNAV | TWO | SWFFT.SWFFT2 | ONE | 15 NOV 12 | 24 July 2014 |

| US Department of Transportation Federal Aviation Administration | | | | RNAV STAR (Data Record) | | | | | | |
|--------------------------------------------------------------------|--------------------------|-----------------------|--------------|--------------------------------------------|-----------|-------------------------------|-----------------|----------------------------|-----------------------|----------------------------------------|
| (1) FIX/NAVAID | (2) LAT/LONG | (3) C | (4) FO/FB | (5) LEG | (6) TC | (7) DIST | (8) ALTITUDE | (9) SPEED | (10) REMARKS | |
| En Route Transition | | | | | | | | | | |
| JAGIR | 343901.51N / 0850041.48W | Y | | IF | | | | | JAGIR.SWFFT2 | |
| LENSE | 350933.55N / 0852424.89W | Y | FB | TF | 327.49 | 36.19 | +FL240 | | | |
| SWFFT | 353309.32N / 0855437.84W | Y | FB | TF | 313.77 | 34.14 | +13000, -FL200 | | HOLDING - RIGHT TURNS | |
| | | | | | | | | | | |
| En Route Transition | | | | | | | | | | |
| VXV VORTAC | 355417.42N / 0835341.02W | Y | | IF | | | | | VXV.SWFFT2 | |
| BAMMA | 354105.22N / 0851155.47W | Y | FB | TF | 258.68 | 65.00 | FL200 | | | |
| SWFFT | 353309.32N / 0855437.84W | Y | FB | TF | 257.39 | 35.71 | +13000, -FL200 | | HOLDING - RIGHT TURNS | |
| | | | | | | | | | | |
| En Route Transition | | | | | | | | | | |
| ZANZA | 344806.45N / 0862819.33W | Y | | IF | | | +FL240 | | ZANZA.SWFFT2 | |
| YUUNS | 351331.79N / 0860716.71W | Y | FB | TF | 034.15 | 30.71 | | | | |
| JEBUG | 352241.88N / 0860005.70W | Y | FB | TF | 032.68 | 10.88 | -FL230 | | | |
| SWFFT | 353309.32N / 0855437.84W | Y | FB | TF | 023.12 | 11.36 | +13000, -FL200 | | HOLDING - RIGHT TURNS | |
| | | | | | | | | | | |
| (11) Arrival Name SWFFT RNAV | | (12) Number TWO | | (13) STAR Computer Code SWFFT.SWFFT2 | | (14) Superseded Nr. ONE | | (15) Dated 15 NOV 12 | | (16) Effective Date 24 July 2014 |

| US Department of Transportation Federal Aviation Administration | | | | | | | RNAV STAR (Data Record) | | |
|--------------------------------------------------------------------|-----------------------------|--------------------------------------------|-------------------------------|----------------------------|----------------------------------------|-------------|-------------------------|--------------|---------------------------------|
| (1) FIX/NAVAID | (2) LAT/LONG | (3) C | (4) FO/FB | (5) LEG | (6) TC | (7) DIST | (8) ALTITUDE | (9) SPEED | (10) REMARKS |
| Common Route | | | | | | | | | |
| SWFFT | 353309.32N / 0855437.84W | Y | | IF | | | | | |
| HIMAT | 353954.99N / 0860340.90W | Y | FB | TF | 312.49 | 10.00 | +10000 | | |
| WEMAL | 354237.31N / 0860718.62W | Y | FB | TF | 312.44 | 4.00 | | | |
| ADAAY | 354741.34N / 0861406.30W | Y | FB | TF | 312.49 | 7.50 | +8000, -12000 | 250K | |
| | | | | | | | | | |
| Runway Transition | | | | | | | | | |
| ADAAY | 354741.34N / 0861406.30W | Y | | IF | | | | | |
| TEARS | 355044.71N / 0862444.98W | Y | FO | TF | 289.47 | 9.18 | 6000 | 250K | |
| RW02L, RW02C, RW02R | | | | FM | 289.00 | | | | RECOMMENDED NAVAID: LOZ VORTAC. |
| | | | | | | | | | |
| Runway Transition | | | | | | | | | |
| ADAAY | 354741.34N / 0861406.30W | Y | | IF | | | | | |
| OURRS | 360019.73N / 0863639.06W | Y | FB | TF | 304.68 | 22.24 | +6000 | 250K | |
| MEANN | 360423.77N / 0864353.99W | Y | FO | TF | 304.68 | 7.15 | 5000 | 210K | |
| RW13 | | | | FM | 304.68 | | | | RECOMMENDED NAVAID: LOZ VORTAC. |
| (11) Arrival Name SWFFT RNAV | (12) Number TWO | (13) STAR Computer Code SWFFT.SWFFT2 | (14) Superseded Nr. ONE | (15) Dated 15 NOV 12 | (16) Effective Date 24 July 2014 | | | | |

| US Department of Transportation Federal Aviation Administration | | | | | RNAV STAR (Data Record) | | | | |
|--------------------------------------------------------------------|-----------------------------|--------------------------------------------|-------------------------------|----------------------------|----------------------------------------|-------|-------|------|---------------------------------|
| | | | | | | | | | |
| Runway Transition | | | | | | | | | |
| ADAAY | 354741.34N / 0861406.30W | Y | | IF | | | | | |
| BRETH | 355835.81N / 0862826.78W | Y | FB | TF | 313.14 | 15.95 | +6000 | 250K | |
| CORRA | 360209.26N / 0863303.97W | Y | FB | TF | 313.49 | 5.16 | +6000 | 220K | |
| HAKUM | 360331.32N / 0863452.09W | Y | FB | TF | 313.07 | 2.00 | | | |
| SIPPO | 360604.77N / 0863350.61W | Y | FO | TF | 018.01 | 2.69 | 5000 | 210K | |
| RW20L, RW20C, RW20R | | | | FM | 018.01 | | | | RECOMMENDED NAVAID: LOZ VORTAC. |
| | | | | | | | | | |
| Runway Transition | | | | | | | | | |
| ADAAY | 354741.34N / 0861406.30W | Y | | IF | | | | | |
| ONUUE | 355856.62N / 0862917.44W | Y | FB | TF | 312.40 | 16.69 | +4000 | 210K | |
| RW31 | | | | | | | | | |
| | | | | | | | | | |
| (11) Arrival Name SWFFT RNAV | (12) Number TWO | (13) STAR Computer Code SWFFT.SWFFT2 | (14) Superseded Nr. ONE | (15) Dated 15 NOV 12 | (16) Effective Date 24 July 2014 | | | | |

**US Department of Transportation
Federal Aviation Administration**

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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|--------------------------------------------------|-------------------------------------|----------------------------------------------------------|---------------------------------------------|------------------------------------------|------------------------------------------------------|
| (11) Arrival Name SWFFT RNAV | (12) Number TWO | (13) STAR Computer Code SWFFT.SWFFT2 | (14) Superseded Nr. ONE | (15) Dated 15 NOV 12 | (16) Effective Date 24 July 2014 |
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**US Department of Transportation
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STAR (Data Record)

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|-------|---------------------|-----------------|-----------|--------------|--|--|---|--------------|-------|
| SUSAP | KBNAK7ESWFFT24JAGIR | 010JAGIRK7PC0E | IF | | | | | | 18000 |
| SUSAP | KBNAK7ESWFFT24JAGIR | 020LENSEK7PC0E | 010TF | | | | | + FL240 | |
| SUSAP | KBNAK7ESWFFT24JAGIR | 030SWFFTK7PC0EE | H 010TF | | | | | B FL20013000 | |
| SUSAP | KBNAK7ESWFFT24VXV | 010VXV K7D 0V | IF | | | | | | 18000 |
| SUSAP | KBNAK7ESWFFT24VXV | 020BAMMAK7EA0E | 010TF | | | | | FL200 | |
| SUSAP | KBNAK7ESWFFT24VXV | 030SWFFTK7PC0EE | H 010TF | | | | | B FL20013000 | |
| SUSAP | KBNAK7ESWFFT24ZANZA | 010ZANZAK7PC0E | IF | | | | | + FL240 | 18000 |
| SUSAP | KBNAK7ESWFFT24ZANZA | 020YUUNSK7PC0E | 010TF | | | | | | |
| SUSAP | KBNAK7ESWFFT24ZANZA | 030JEBUGK7PC0E | 010TF | | | | | - FL230 | |
| SUSAP | KBNAK7ESWFFT24ZANZA | 040SWFFTK7PC0EE | H 010TF | | | | | B FL20013000 | |
| SUSAP | KBNAK7ESWFFT25 | 010SWFFTK7PC0E | H IF | | | | | | 18000 |
| SUSAP | KBNAK7ESWFFT25 | 020HIMATK7PC0E | 010TF | | | | | + 10000 | |
| SUSAP | KBNAK7ESWFFT25 | 030WEMALK7PC0E | 010TF | | | | | | |
| SUSAP | KBNAK7ESWFFT25 | 040ADAAYK7PC0EE | 010TF | | | | | B 1200008000 | 250 |
| SUSAP | KBNAK7ESWFFT26RW02B | 010ADAAYK7PC0E | IF | | | | | | 18000 |
| SUSAP | KBNAK7ESWFFT26RW02B | 020TEARSK7PC0EY | 010TF | | | | | 06000 | 250 |
| SUSAP | KBNAK7ESWFFT26RW02B | 030TEARSK7PC0EE | FM LOZ K5 | 241113222920 | | | D | | |
| SUSAP | KBNAK7ESWFFT26RW13 | 010ADAAYK7PC0E | IF | | | | | | 18000 |
| SUSAP | KBNAK7ESWFFT26RW13 | 020OURRSK7PC0E | 010TF | | | | | + 06000 | 250 |
| SUSAP | KBNAK7ESWFFT26RW13 | 030MEANNK7PC0EY | 010TF | | | | | 05000 | 210 |
| SUSAP | KBNAK7ESWFFT26RW13 | 040MEANNK7PC0EE | FM LOZ K5 | 249413923077 | | | D | | |
| SUSAP | KBNAK7ESWFFT26RW20B | 010ADAAYK7PC0E | IF | | | | | | 18000 |
| SUSAP | KBNAK7ESWFFT26RW20B | 020BRETHK7PC0E | 010TF | | | | | + 06000 | 250 |
| SUSAP | KBNAK7ESWFFT26RW20B | 030CORRAK7PC0E | 010TF | | | | | + 06000 | 220 |
| SUSAP | KBNAK7ESWFFT26RW20B | 040HAKUMK7PC0E | 010TF | | | | | | |
| SUSAP | KBNAK7ESWFFT26RW20B | 050SIPPOK7PC0EY | 010TF | | | | | 05000 | 210 |
| SUSAP | KBNAK7ESWFFT26RW20B | 060SIPPOK7PC0EE | FM LOZ K5 | 248513110210 | | | D | | |
| SUSAP | KBNAK7ESWFFT26RW31 | 010ADAAYK7PC0E | IF | | | | | | 18000 |
| SUSAP | KBNAK7ESWFFT26RW31 | 020ONUKEK7PC0EE | 010TF | | | | | + 04000 | 210 |

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| (11) Arrival Name SWFFT RNAV | (12) Number TWO | (13) STAR Computer Code SWFFT.SWFFT2 | (14) Superseded Nr. ONE | (15) Dated 15 NOV 12 | (16) Effective Date 24 July 2014 |
|-------------------------------------------|------------------------------|---------------------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------------------|

**US Department of Transportation
Federal Aviation Administration**
STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|-----|------|------|-------|-----|------------|----------|---------------|--------|
| | JAGIR | JAGIR | 010 | | IF | | FB | | | | | |
| | JAGIR | LENSE | 020 | | TF | | FB | 1.0 | | | AA FL240 | |
| | JAGIR | SWFFT | 030 | | TF | | FB | 1.0 | | | BT FL20013000 | |
| | VXV | VXV | 010 | | IF | | FB | | | | | |
| | VXV | BAMMA | 020 | | TF | | FB | 1.0 | | | AT FL200 | |
| | VXV | SWFFT | 030 | | TF | | FB | 1.0 | | | BT FL20013000 | |
| | ZANZA | ZANZA | 010 | | IF | | FB | | | | AA FL240 | |
| | ZANZA | YUUNS | 020 | | TF | | FB | 1.0 | | | | |
| | ZANZA | JEBUG | 030 | | TF | | FB | 1.0 | | | AB FL230 | |
| | ZANZA | SWFFT | 040 | | TF | | FB | 1.0 | | | BT FL20013000 | |
| | | SWFFT | 010 | | IF | | FB | | | | | |
| | | HIMAT | 020 | | TF | | FB | 1.0 | | | AA 10000 | |
| | | WEMAL | 030 | | TF | | FB | 1.0 | | | | |
| | | ADAAY | 040 | | TF | | FB | 1.0 | | | BT 1200008000 | AT 250 |
| | RW02B | ADAAY | 010 | | IF | | FB | | | | | |
| | RW02B | TEARS | 020 | | TF | | FO | 1.0 | | | AT 06000 | AT 250 |
| | RW02B | TEARS | 030 | | FM | | FB | | 292.0() | | | |
| | RW13 | ADAAY | 010 | | IF | | FB | | | | | |
| | RW13 | OURRS | 020 | | TF | | FB | 1.0 | | | AA 06000 | AT 250 |
| | RW13 | MEANN | 030 | | TF | | FO | 1.0 | | | AT 05000 | AT 210 |
| | RW13 | MEANN | 040 | | FM | | FB | | 307.7() | | | |
| | RW20B | ADAAY | 010 | | IF | | FB | | | | | |
| | RW20B | BRETH | 020 | | TF | | FB | 1.0 | | | AA 06000 | AT 250 |
| | RW20B | CORRA | 030 | | TF | | FB | 1.0 | | | AA 06000 | AT 220 |
| | RW20B | HAKUM | 040 | | TF | | FB | 1.0 | | | | |
| | RW20B | SIPPO | 050 | | TF | | FO | 1.0 | | | AT 05000 | AT 210 |
| | RW20B | SIPPO | 060 | | FM | | FB | | 021.0() | | | |
| | RW31 | ADAAY | 010 | | IF | | FB | | | | | |
| | RW31 | ONUGE | 020 | | TF | | FB | 1.0 | | | AA 04000 | AT 210 |

POINT DATA

WAYPOINT

LAT IN SECS

LONG IN SECS

LAT IN MINS

LONG IN MINS

| | | | | |
|-------|------------|-------------|-----------|------------|
| LOZ | N370159.34 | W0840636.27 | N3701.989 | W08406.605 |
| VXV | N355417.42 | W0835341.02 | N3554.290 | W08353.684 |
| BAMMA | N354105.22 | W0851155.47 | N3541.087 | W08511.925 |
| ADAAY | N354741.34 | W0861406.30 | N3547.689 | W08614.105 |
| BRETH | N355835.81 | W0862826.78 | N3558.597 | W08628.446 |
| CORRA | N360209.26 | W0863303.97 | N3602.154 | W08633.066 |

(11)
Arrival Name
SWFFT RNAV

(12)
Number
TWO

(13)
STAR Computer Code
SWFFT.SWFFT2

(14)
Superseded Nr.
ONE

(15)
Dated
15 NOV 12

(16)
Effective Date
24 July 2014

**US Department of Transportation
Federal Aviation Administration**
STAR (Data Record)

| | | | | |
|-------|------------|-------------|-----------|------------|
| HAKUM | N360331.32 | W0863452.09 | N3603.522 | W08634.868 |
| HIMAT | N353954.99 | W0860340.90 | N3539.917 | W08603.682 |
| JAGIR | N343901.51 | W0850041.48 | N3439.025 | W08500.691 |
| JEBUG | N352241.88 | W0860005.70 | N3522.698 | W08600.095 |
| LENSE | N350933.55 | W0852424.89 | N3509.559 | W08524.415 |
| MEANN | N360423.77 | W0864353.99 | N3604.396 | W08643.900 |
| ONUGE | N355856.62 | W0862917.44 | N3558.944 | W08629.291 |
| OURRS | N360019.73 | W0863639.06 | N3600.329 | W08636.651 |
| SIPPO | N360604.77 | W0863350.61 | N3606.080 | W08633.844 |
| SWFFT | N353309.32 | W0855437.84 | N3533.155 | W08554.631 |
| TEARS | N355044.71 | W0862444.98 | N3550.745 | W08624.750 |
| WEMAL | N354237.31 | W0860718.62 | N3542.622 | W08607.310 |
| YUUNS | N351331.79 | W0860716.71 | N3513.530 | W08607.279 |
| ZANZA | N344806.45 | W0862819.33 | N3448.108 | W08628.322 |
| RW02C | N360611.99 | W0864116.66 | N3606.200 | W08641.278 |
| RW02L | N360703.64 | W0864111.31 | N3607.061 | W08641.189 |
| RW02R | N360645.77 | W0864003.52 | N3606.763 | W08640.059 |
| RW13 | N360823.16 | W0864136.17 | N3608.386 | W08641.603 |
| RW20C | N360727.24 | W0864046.55 | N3607.454 | W08640.776 |
| RW20L | N360801.01 | W0863933.40 | N3608.017 | W08639.557 |
| RW20R | N360816.23 | W0864042.84 | N3608.271 | W08640.714 |
| RW31 | N360718.81 | W0864012.01 | N3607.314 | W08640.200 |

RUNWAY DATA

| RWY | THRESHOLD ELEVATION | TCH |
|-------|------------------------|-----|
| RW02C | 00569 | 60 |
| RW02L | 00599 | 55 |
| RW02R | 00590 | 59 |
| RW13 | 00543 | 55 |
| RW20C | 00572 | 50 |
| RW20L | 00540 | 47 |
| RW20R | 00555 | 59 |
| RW31 | 00577 | 52 |

(11)
Arrival Name
SWFFT RNAV

(12)
Number
TWO

(13)
STAR Computer Code
SWFFT.SWFFT2

(14)
Superseded Nr.
ONE

(15)
Dated
15 NOV 12

(16)
Effective Date
24 July 2014