

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

| | | | | | |
|----------------|---------------|-------------------------|--------------------------|--------------|-----------------------|
| DP Name | Number | DP Computer Code | Superseded Number | Dated | Effective Date |
| O'HARE | SEVEN | ORD7.ORD | SIX | 05/31/2012 | 02 MAY 2013 |

TYPE: SID

DP ROUTE DESCRIPTION:

ALL AIRCRAFT: EXPECT RADAR VECTORS TO FIRST ENROUTE NAVAID/FIX. EXPECT CLEARANCE TO REQUESTED ALTITUDE/FLIGHT LEVEL TEN MINUTES AFTER DEPARTURE. **ALL DME EQUIPPED AIRCRAFT:** CROSS 5 DME ARC OF ORD AT OR ABOVE 3000 FEET MSL, CROSS 8 DME ARC OF ORD AT OR ABOVE 4000 FEET, MAINTAIN 5000 FEET OR ASSIGNED ALTITUDE. IF UNABLE TO COMPLY ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE. **NON-DME PROCEDURES:** AIRCRAFT INITIALLY ASSIGNED HEADING 120 CW 220, CROSS DPA R-093 AT OR ABOVE 4000, MAINTAIN 5000 OR ASSIGNED ALTITUDE. IF UNABLE TO COMPLY ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

| Transition Name | Transition Computer Codes | From FIX/NAVAID | To FIX/NAVAID | Course | Distance | MEA | MOCA | Crossing Altitudes/Fixes |
|-----------------|---------------------------|--------------------|------------------|--------|----------|-----|------|--------------------------|
|-----------------|---------------------------|--------------------|------------------|--------|----------|-----|------|--------------------------|

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: ALL TURBO-JET DEPARTURES, IN ALL DIRECTIONS, MAINTAIN 250 KNOTS UNTIL ADVISED BY ATC. **NOTE:** BDF VORTAC: USE RESTRICTED TO FLIGHTS FILED AT FL230 AND BELOW. **SPECIAL INSTRUCTIONS:** FOR APPROPRIATE DEPARTURE CONTROL FREQUENCY, SEE GRAPHIC. USE FREQUENCY DEPICTED WITHIN SECTOR WHERE FIRST NAVAID/FIX FOR YOUR ROUTE IS LOCATED (SECTORS INDICATED BY DASHED LINES; FREQUENCIES IN DASHED BOX WITHIN). **TAKEOFF MINIMUMS:** RWY 4L, 4R, 9L, 9R, 10L, 14L, 14R, 22L, 22R, 32R, STANDARD. RWY 27L, STANDARD WITH MINIMUM CLIMB OF 220 FEET PER NM TO 1700. RWY 27R, STANDARD WITH MINIMUM CLIMB OF 228 FEET PER NM TO 1800. RWY 28R, STANDARD WITH MINIMUM CLIMB OF 222 FEET PER NM TO 1700. RWY 32L, STANDARD WITH MINIMUM CLIMB OF 240 FEET PER NM TO 1800.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4L, BUILDING 3302 FT FROM DER, 1249 FT RIGHT OF CENTERLINE, 109 FT AGL/750 FT MSL.
NOTE: RWY 4R, TREE 810 FT FROM DER, 611 FT RIGHT OF CENTERLINE, 36 FT AGL/675 FT MSL. TREES BEGINNING 2149 FT FROM DER, 834 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/749 FT MSL. PARKED AIRCRAFT ON RAMP 153 FT FROM DER, 329 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL.
NOTE: 9L, BUILDING 2771 FT FROM DER, 1234 FT RIGHT OF CENTERLINE, 94 FT AGL/745 FT MSL.
NOTE: 9R, STREET LIGHT 877 FT FROM DER, 689 FT RIGHT OF CENTERLINE, 40 FT AGL/673 FT MSL. TREE 3492 FT FROM DER, 1054 FT LEFT OF CENTERLINE, 100 FT AGL/744 FT MSL.
NOTE: 10L, PARKED AIRCRAFT ON RAMP 33 FT FROM DER, 440 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL. PARKED ACFT ON RAMP 940 FT FROM DER, 541 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL. TOWERS BEGINNING 2522 FT FROM DER, 983 FT RIGHT OF CENTERLINE, UP TO 127 FT AGL/771 FT MSL.
NOTE: RWY 14L, LIGHT POLES BEGINNING 981 FT FROM DER, 745 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/684 FT MSL. PARKED AIRCRAFT ON RAMP 100 FT FROM DER, 363 FT RIGHT OF CENTERLINE, 80 FT AGL/729 FT MSL. SIGN 1292 FT FROM DER, 724 FT RIGHT OF CENTERLINE, 37 FT AGL/682 FT MSL.
NOTE: RWY 14R, PARKED AIRCRAFT ON RAMP 1104 FT FROM DER, 766 FT RIGHT OF CENTERLINE, 80 FT AGL/736 FT MSL.
NOTE: RWY 22R, PARKED AIRCRAFT ON RAMP 34 FT FROM DER, 430 FT LEFT OF CENTERLINE, 80 FT AGL/736 FT MSL.
NOTE: RWY 27L, PARKED AIRCRAFT ON RAMP, 70 FT FROM DER, 405 FT LEFT OF CENTERLINE, 80 FT AGL/740 FT MSL. POLE 5584 FT FROM DER, 1824 FT LEFT OF CENTERLINE, 147 FT AGL/812 FT MSL. PARKED AIRCRAFT ON RAMP 3627 FT FROM DER, 1225 FT RIGHT OF CENTERLINE, 80 FT AGL/754 FT MSL.
NOTE: RWY 27R, OBSTRUCTION LIGHT ON TANK 1489 FT FROM DER, 886 FT LEFT OF CENTERLINE, 53 FT AGL/726 FT MSL. ELEVATOR 2778 FT FROM DER, 1020 FT LEFT OF CENTERLINE, 11 FT AGL/776 FT MSL.
NOTE: RWY 28R, TREES BEGINNING 1717 FT FROM DER, 752 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/789 FT MSL.

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| O'HARE | SEVEN | ORD7.ORD | SIX | 05/31/2012 | 02 MAY 2013 |

NOTE: RWY 32L, POLE 1993 FT FROM DER, 791 FT LEFT OF CENTERLINE, 49 FT AGL/716 FT MSL.

CONTROLLING OBSTACLES:

RWY 27L: 812 MSL POLE 415844.00N/0875620.00W, 1413 MSL TOWER 415926.00N/0880139.00W.
 RWY 27R: 1468 MSL TOWER 420042.49N/0880206.93W, 1413 MSL TOWER 415926.00N/0880139.00W.
 RWY 28R: 1413 MSL TOWER 415926.00N/0880139.00W.
 RWY 32L: 1468 MSL TOWER 420042.49N/0880206.93W, 1413 MSL TOWER 415926.00N/0880139.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

AIRPORTS SERVED:

CHICAGO O'HARE INTL

CHICAGO, IL

COMMUNICATIONS:

FIXES AND/OR NAVAIDS:

CHART NAVAIDS: BAE VORTAC, EON VORTAC, RBS VOR/DME, BDF VORTAC, MZV VORTAC, IOW VORTAC, PLL VOR/DME, DPA VOR/DME, ORD VOR/DME, ELX VOR/DME, GIJ VORTAC. **CHART FIXES:** PETTY INT, SIMMN INT, ACITO WP, BACEN WP, CMSKY WP, DENNT WP, EARND WP, MOBLE WP, DUFEE WP, EBAKE WP..

REMARKS:

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| | | | | | |
|----------------|---------------|-------------------------|--------------------------|--------------|-----------------------|
| DP Name | Number | DP Computer Code | Superseded Number | Dated | Effective Date |
| EARND | TWO | EARND2.EARND | ONE | 10 Jan 2013 | 02 MAY 2013 |

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4L: CLIMB HEADING 042.49 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 4R: CLIMB HEADING 044.50 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 9L: CLIMB HEADING 092.99 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 9R: CLIMB HEADING 092.98 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 10L: CLIMB HEADING 092.86 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 14L: CLIMB HEADING 142.99 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 14R: CLIMB HEADING 142.97 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 22L: CLIMB HEADING 224.51 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 22R: CLIMB HEADING 225.00 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 27L: CLIMB HEADING 273.00 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 27R: CLIMB HEADING 273.01 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 28R: CLIMB HEADING 272.90 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 32L: CLIMB HEADING 322.99 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...
 TAKEOFF RWY 32R: CLIMB HEADING 323.01 TO 1180, THEN AS ASSIGNED BY ATC, EXPECT VECTORS TO EZRAH. THENCE...

...ON TRACK 171.12 TO EARND, THEN ON (TRANSITION). MAINTAIN 5000. EXPECT FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

| Transition Name | Transition Computer Codes | From FIX/NAVAID | To FIX/NAVAID | Course | Distance | MEA | MOCA | Crossing Altitudes/Fixes |
|-----------------|---------------------------|--------------------|------------------|--------------|----------|------|------|--------------------------|
| ELANR | EARND2.ELANR | EARND | ELANR | TRACK 175.52 | 13.52 | 5000 | 2200 | |
| EMEGE | EARND2.EMEGE | EARND | ELANR | TRACK 175.52 | 13.52 | 5000 | 2200 | |
| | | ELANR | EMMLY | TRACK 171.51 | 45.98 | 5000 | 2300 | |
| | | EMMLY | ETAME | TRACK 147.35 | 34.29 | 5000 | 2300 | |
| | | ETAME | EMEGE | TRACK 150.67 | 19.24 | 5000 | 2400 | |
| EMMLY | EARND2.EMMLY | EARND | ELANR | TRACK 175.52 | 13.52 | 5000 | 2200 | |
| | | ELANR | EMMLY | TRACK 171.51 | 45.98 | 5000 | 2300 | |
| ERECO | EARND2.ERECO | EARND | ELANR | TRACK 175.52 | 13.52 | 5000 | 2200 | |
| | | ELANR | EMMLY | TRACK 171.51 | 45.98 | 5000 | 2300 | |
| | | EMMLY | ERECO | TRACK 163.22 | 29.53 | 5000 | 2100 | |

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| EARND | TWO | EARND2.EARND | ONE | 10 Jan 2013 | 02 MAY 2013 |

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: CROSS ORD VOR/DME 5 NM AT OR ABOVE 3000, AND CROSS ORD VOR/DME 8 NM AT OR ABOVE 4000, IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJET DEPARTURES MAINTAIN 250 KIAS UNTIL ADVISED BY ATC.

NOTE: RNAV 1.

NOTE: RADAR REQUIRED.

NOTE: EMMLY TRANSITION: FOR AIRCRAFT INBOUND TO INDIANAPOLIS TERMINAL AREA, OR AS ASSIGNED BY ATC.

NOTE: ELANR TRANSITION: FOR AIRCRAFT INBOUND TO CINCINNATI TERMINAL AREA, OR AS ASSIGNED BY ATC.

TAKEOFF MINIMUMS:

RWY 4L, 4R, 9L, 9R, 10L, 14L, 14R, 22L, 22R, 32R: STANDARD.

RWY 27L: STANDARD WITH MINIMUM CLIMB OF 220 FEET PER NM TO 1700.

RWY 27R: STANDARD WITH MINIMUM CLIMB OF 228 FEET PER NM TO 1800.

RWY 28R: STANDARD WITH MINIMUM CLIMB OF 222 FEET PER NM TO 1700.

RWY 32L: STANDARD WITH MINIMUM CLIMB OF 240 FEET PER NM TO 1800.

TAKEOFF OBSTACLES NOTES:

NOTE: **RWY 4L**, BUILDING 3302 FT FROM DER, 1249 FT RIGHT OF CENTERLINE, 109 FT AGL/750 FT MSL.

NOTE: **RWY 4R**, TREE 810 FT FROM DER, 611 FT RIGHT OF CENTERLINE, 36 FT AGL/675 FT MSL. TREES BEGINNING 2149 FT FROM DER, 834 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/749 FT MSL. PARKED AIRCRAFT ON RAMP 153 FT FROM DER, 329 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL.

NOTE: **RWY 9L**, BUILDING 2771 FT FROM DER, 1234 FT RIGHT OF CENTERLINE, 94 FT AGL/745 FT MSL.

NOTE: **RWY 9R**, STREET LIGHT 877 FT FROM DER, 689 FT RIGHT OF CENTERLINE, 40 FT AGL/673 FT MSL. TREE 3492 FT FROM DER, 1054 FT LEFT OF CENTERLINE, 100 FT AGL/744 FT MSL.

NOTE: **RWY 10L**, PARKED AIRCRAFT ON RAMP 33 FT FROM DER, 440 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL. PARKED AIRCRAFT ON RAMP 940 FT FROM DER, 541 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL. TOWERS BEGINNING 2522 FT FROM DER, 983 FT RIGHT OF CENTERLINE, UP TO 127 FT AGL/771 FT MSL.

NOTE: **RWY 14L**, LIGHT POLES BEGINNING 981 FT FROM DER, 745 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/684 FT MSL. PARKED AIRCRAFT ON RAMP 100 FT FROM DER, 363 FT RIGHT OF CENTERLINE, 80 FT AGL/729 FT MSL. SIGN 1292 FT FROM DER, 724 FT RIGHT OF CENTERLINE, 37 FT AGL/682 FT MSL.

NOTE: **RWY 14R**, PARKED AIRCRAFT ON RAMP 1104 FT FROM DER, 766 FT RIGHT OF CENTERLINE, 80 AGL/736 FT MSL.

NOTE: **RWY 22R**, PARKED AIRCRAFT ON RAMP 34 FT FROM DER, 430 FT LEFT OF CENTERLINE, 80 FT AGL/736 FT MSL.

NOTE: **RWY 27L**, PARKED AIRCRAFT ON RAMP 70 FT FROM DER, 405 FT LEFT OF CENTERLINE, 80 FT AGL/740 FT MSL. POLE 5584 FT FROM DER, 1824 FT LEFT OF CENTERLINE, 147 FT AGL/812 FT MSL. PARKED AIRCRAFT ON RAMP 3627 FT FROM DER, 1225 FT RIGHT OF CENTERLINE, 80 FT AGL/754 FT MSL.

NOTE: **RWY 27R**, OBSTRUCTION LIGHT ON TANK 1489 FT FROM DER, 886 FT LEFT OF CENTERLINE, 53 FT AGL/726 FT MSL. ELEVATOR 2778 FT FROM DER, 1020 FT LEFT OF CENTERLINE, 111 FT AGL/776 FT MSL.

NOTE: **RWY 28R**, TREES BEGINNING 1717 FT FROM DER, 752 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/789 FT MSL.

NOTE: **RWY 32L**, POLE 1993 FT FROM DER, 791 FT LEFT OF CENTERLINE, 49 FT AGL/716 FT MSL.

DEPARTURE (DATA RECORD)

| DP Name | Number | DP Computer Code | Superseded Number | Dated | Effective Date |
|------------|--------|------------------|-------------------|-------------|----------------|
| EARND RNAV | TWO | EARND2.EARND | ONE | 10 JAN 2013 | 02 MAY 2013 |

| FIX/NAVAID | LAT/LONG | C | FO/FB | LEG TYPE | TC | DIST (NM) | ALTITUDE | SPEED | REMARKS |
|--------------|-------------------------|---|-------|----------|--------|-----------|----------|-------|-----------------------|
| RW04L (AER) | 415853.96N/0875450.10W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 039.49 | - | | | |
| - | - | - | - | VM | 039.49 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW04R (AER) | 415711.98N/0875357.91W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 041.50 | - | | | |
| - | - | - | - | VM | 041.50 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW09L (AER) | 420010.19N/0875536.03W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 089.99 | - | | | |
| - | - | - | - | VM | 089.99 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW09R (AER) | 415902.03N/0875506.07W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 089.98 | - | | | |
| - | - | - | - | VM | 089.98 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW10L (AER) | 415808.38N/0875553.51W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 089.86 | - | | | |
| - | - | - | - | VM | 089.86 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW14L (AER)* | 415953.65N/0875438.32W* | N | - | - | - | - | | | *DISPL THLD (1998 FT) |
| 1180 MSL | - | - | - | VA | 139.99 | - | | | |
| - | - | - | - | VM | 139.99 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |

DEPARTURE (DATA RECORD)

| DP Name | Number | DP Computer Code | | Superseded Number | Dated | Effective Date | | | |
|-------------|------------------------|------------------|-------|-------------------|-------------|----------------|----------|-------|----------------------|
| EARND RNAV | TWO | EARND2.EARND | | ONE | 10 JAN 2013 | 02 MAY 2013 | | | |
| FIX/NAVAID | LAT/LONG | C | FO/FB | LEG TYPE | TC | DIST (NM) | ALTITUDE | SPEED | REMARKS |
| RW14R (AER) | 415925.57N/0875559.30W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 139.97 | - | | | |
| - | - | - | - | VM | 139.97 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW22L (AER) | 415811.72N/0875247.08W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 221.51 | - | | | |
| - | - | - | - | VM | 221.51 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW22R (AER) | 415951.13N/0875346.94W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 222.00 | - | | | |
| - | - | - | - | VM | 222.00 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW27L (AER) | 415902.04N/0875320.58W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 270.00 | - | | | CG 220 FT/NM TO 1700 |
| - | - | - | - | VM | 270.00 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW27R (AER) | 420010.19N/0875356.70W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 270.01 | - | | | CG 228 FT/NM TO 1800 |
| - | - | - | - | VM | 270.01 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW28R (AER) | 415808.65N/0875301.42W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 269.90 | - | | | CG 222 FT/NM TO 1700 |
| - | - | - | - | VM | 269.90 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |

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|------------|--------|------------------|-------------------|-------------|----------------|
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| FIX/NAVAID | LAT/LONG | C | FO/FB | LEG TYPE | TC | DIST (NM) | ALTITUDE | SPEED | REMARKS |
|-------------|-------------------------|---|-------|----------|--------|-----------|----------|-------|----------------------|
| RW32L (AER) | 415812.30N/0875436.84W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 319.99 | - | | | CG 240 FT/NM TO 1800 |
| - | - | - | - | VM | 319.99 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| RW32R (AER) | 415853.06N/0875330.17W | N | - | - | - | - | | | |
| 1180 MSL | - | - | - | VA | 320.01 | - | | | |
| - | - | - | - | VM | 320.01 | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | FB | DF | - | - | | | |
| EZRAH | 413903.00N/0873806.86W | Y | - | IF | - | - | | | |
| EARND | 412531.00N/0873420.00W | Y | FB | TF | 168.12 | 13.82 | | | |
| EARND | 412531.00N/0873420.00W | Y | - | IF | - | - | | | EARND2.ELANR |
| ELANR | 411206.00N/.0873200.00W | Y | FB | TF | 172.52 | 13.52 | | | |
| EARND | 412531.00N/0873420.00W | Y | - | IF | - | - | | | EARND2.EMEGE |
| ELANR | 411206.00N/.0873200.00W | Y | FB | TF | 172.52 | 13.52 | | | |
| EMMLY | 402700.00N/0872000.00W | Y | FB | TF | 168.51 | 45.98 | | | |
| ETAME | 395904.00N/0865400.00W | Y | FB | TF | 144.35 | 34.29 | | | |
| EMEGE | 394247.00N/0864040.00W | Y | FB | TF | 147.67 | 19.24 | | | |
| EARND | 412531.00N/0873420.00W | Y | - | IF | - | - | | | EARND2.EMMLY |
| ELANR | 411206.00N/.0873200.00W | Y | FB | TF | 172.52 | 13.52 | | | |
| EMMLY | 402700.00N/0872000.00W | Y | FB | TF | 168.51 | 45.98 | | | |
| EARND | 412531.00N/0873420.00W | Y | - | IF | - | - | | | EARND2.ERECO |
| ELANR | 411206.00N/.0873200.00W | Y | FB | TF | 172.52 | 13.52 | | | |
| EMMLY | 402700.00N/0872000.00W | Y | FB | TF | 168.51 | 45.98 | | | |
| ERECO | 395911.00N/0870700.00W | Y | FB | TF | 160.22 | 29.53 | | | |

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| EARND RNAV | TWO | EARND2.EARND | ONE | 10 JAN 2013 | 02 MAY 2013 |

ARINC SUMMARY - 424-18 - SID

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|-----|------|------|-------|-----|-----------|----------|----------|-------|
| | RW04L | | 010 | | VA | | FB | | 042.5() | | AA 01180 | |
| | RW04L | | 020 | | VM | | FB | | 042.5() | | | |
| | RW04L | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW04R | | 010 | | VA | | FB | | 044.5() | | AA 01180 | |
| | RW04R | | 020 | | VM | | FB | | 044.5() | | | |
| | RW04R | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW09L | | 010 | | VA | | FB | | 093.0() | | AA 01180 | |
| | RW09L | | 020 | | VM | | FB | | 093.0() | | | |
| | RW09L | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW09R | | 010 | | VA | | FB | | 093.0() | | AA 01180 | |
| | RW09R | | 020 | | VM | | FB | | 093.0() | | | |
| | RW09R | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW10L | | 010 | | VA | | FB | | 092.9() | | AA 01180 | |
| | RW10L | | 020 | | VM | | FB | | 092.9() | | | |
| | RW10L | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW14B | | 010 | | VA | | FB | | 143.0() | | AA 01180 | |
| | RW14B | | 020 | | VM | | FB | | 143.0() | | | |
| | RW14B | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW22L | | 010 | | VA | | FB | | 224.5() | | AA 01180 | |
| | RW22L | | 020 | | VM | | FB | | 224.5() | | | |
| | RW22L | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW22R | | 010 | | VA | | FB | | 225.0() | | AA 01180 | |
| | RW22R | | 020 | | VM | | FB | | 225.0() | | | |
| | RW22R | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW27L | | 010 | | VA | | FB | | 273.0() | | AA 01180 | |
| | RW27L | | 020 | | VM | | FB | | 273.0() | | | |
| | RW27L | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW27R | | 010 | | VA | | FB | | 273.0() | | AA 01180 | |
| | RW27R | | 020 | | VM | | FB | | 273.0() | | | |
| | RW27R | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW28R | | 010 | | VA | | FB | | 272.9() | | AA 01180 | |
| | RW28R | | 020 | | VM | | FB | | 272.9() | | | |
| | RW28R | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | RW32B | | 010 | | VA | | FB | | 323.0() | | AA 01180 | |
| | RW32B | | 020 | | VM | | FB | | 323.0() | | | |
| | RW32B | EZRAH | 030 | | DF | | FB | 1.0 | | | | |
| | | EZRAH | 010 | | IF | | FB | | | | | |
| | | EARND | 020 | | TF | | FB | 1.0 | | | | |
| | ELANR | EARND | 010 | | IF | | FB | | | | | |
| | ELANR | ELANR | 020 | | TF | | FB | 1.0 | | | | |
| | EMEGE | EARND | 010 | | IF | | FB | | | | | |
| | EMEGE | ELANR | 020 | | TF | | FB | 1.0 | | | | |

DEPARTURE (DATA RECORD)

| DP Name | Number | DP Computer Code | Superseded Number | Dated | Effective Date |
|------------|--------|------------------|-------------------|-------------|----------------|
| EARND RNAV | TWO | EARND2.EARND | ONE | 10 JAN 2013 | 02 MAY 2013 |

| | | | | | |
|-------|-------|-----|----|----|-----|
| EMEGE | EMMLY | 030 | TF | FB | 1.0 |
| EMEGE | ETAME | 040 | TF | FB | 1.0 |
| EMEGE | EMEGE | 050 | TF | FB | 1.0 |
| EMMLY | EARND | 010 | IF | FB | |
| EMMLY | ELANR | 020 | TF | FB | 1.0 |
| EMMLY | EMMLY | 030 | TF | FB | 1.0 |
| ERECO | EARND | 010 | IF | FB | |
| ERECO | ELANR | 020 | TF | FB | 1.0 |
| ERECO | EMMLY | 030 | TF | FB | 1.0 |
| ERECO | ERECO | 040 | TF | FB | 1.0 |

POINT DATA

| WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|----------|-------------|--------------|-------------|--------------|
| EARND | N412531.00 | W0873420.00 | N4125.517 | W08734.333 |
| ELANR | N411206.00 | W0873200.00 | N4112.100 | W08732.000 |
| EMEGE | N394247.00 | W0864040.00 | N3942.783 | W08640.667 |
| EMMLY | N402700.00 | W0872000.00 | N4027.000 | W08720.000 |
| ERECO | N395911.00 | W0870700.00 | N3959.183 | W08707.000 |
| ETAME | N395904.00 | W0865400.00 | N3959.067 | W08654.000 |
| EZRAH | N413903.00 | W0873806.86 | N4139.050 | W08738.114 |
| RW04L | N415853.96 | W0875450.10 | N4158.899 | W08754.835 |
| RW04R | N415711.98 | W0875357.91 | N4157.200 | W08753.965 |
| RW09L | N420010.19 | W0875536.03 | N4200.170 | W08755.601 |
| RW09R | N415902.03 | W0875506.07 | N4159.034 | W08755.101 |
| RW10L | N415808.38 | W0875553.51 | N4158.140 | W08755.892 |
| RW14L | N415953.65 | W0875438.32 | N4159.894 | W08754.639 |
| RW14R | N415925.57 | W0875559.30 | N4159.426 | W08755.988 |
| RW22L | N415811.72 | W0875247.08 | N4158.195 | W08752.785 |
| RW22R | N415951.13 | W0875346.94 | N4159.852 | W08753.782 |
| RW27L | N415902.04 | W0875320.58 | N4159.034 | W08753.343 |
| RW27R | N420010.19 | W0875356.70 | N4200.170 | W08753.945 |
| RW28R | N415808.65 | W0875301.42 | N4158.144 | W08753.024 |
| RW32L | N415812.30 | W0875436.84 | N4158.205 | W08754.614 |
| RW32R | N415853.06 | W0875330.17 | N4158.884 | W08753.503 |

RUNWAY DATA

| RWY | THRESHOLD ELEVATION | TCH |
|-------|---------------------|-----|
| RW04L | 00656 | 55 |
| RW04R | 00661 | 52 |
| RW09L | 00668 | 52 |
| RW09R | 00660 | 57 |
| RW10L | 00672 | 56 |
| RW14L | 00649 | 55 |
| RW14R | 00666 | 56 |
| RW22L | 00654 | 55 |
| RW22R | 00648 | 49 |

DEPARTURE (DATA RECORD)

| DP Name | Number | DP Computer Code | Superseded Number | Dated | Effective Date |
|-------------------|---------------|-------------------------|--------------------------|--------------------|-----------------------|
| EARND RNAV | TWO | EARND2.EARND | ONE | 10 JAN 2013 | 02 MAY 2013 |

| | | |
|-------|-------|----|
| RW27L | 00650 | 52 |
| RW27R | 00664 | 55 |
| RW28R | 00651 | 51 |
| RW32L | 00654 | 50 |
| RW32R | 00648 | 76 |