

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

July 9, 2020

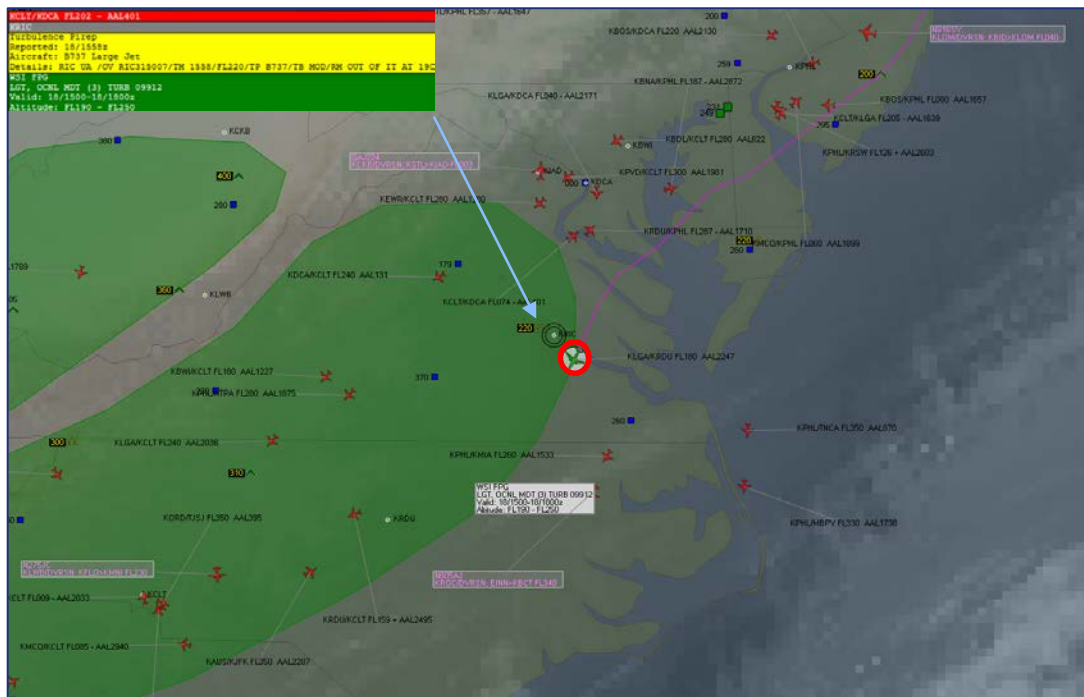
Attachment 13 –American Airlines Post Accident Weather Report

OPERATIONAL FACTORS/HUMAN PERFORMANCE

DCA20CA043

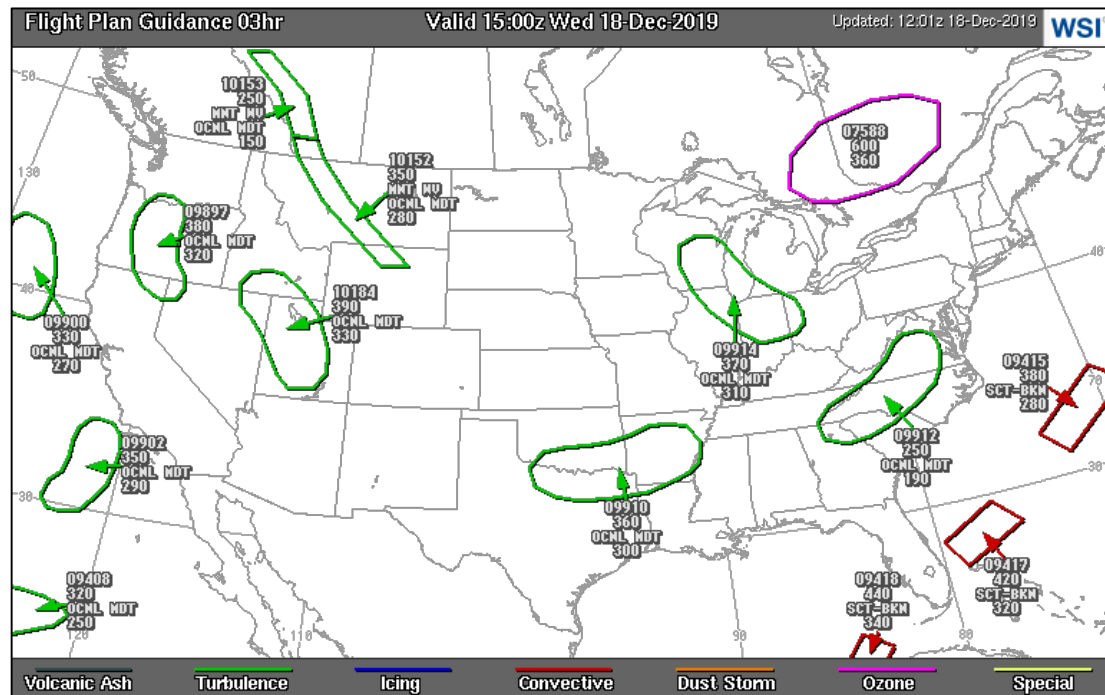
Flight Number	AAL2247
Date	18 DECEMBER 2019
Time of incident	18/1609Z
Aircraft Type	E190
City Pairs	LGA-RDU
Location	20NM South of KRIC
Description	30 seconds of MDT turbulence resulted in FA sustaining ankle injury.
Flight Level	FL180

Fusion Snapshot Valid 1609z December 18 (AAL2247 Circled in Red)



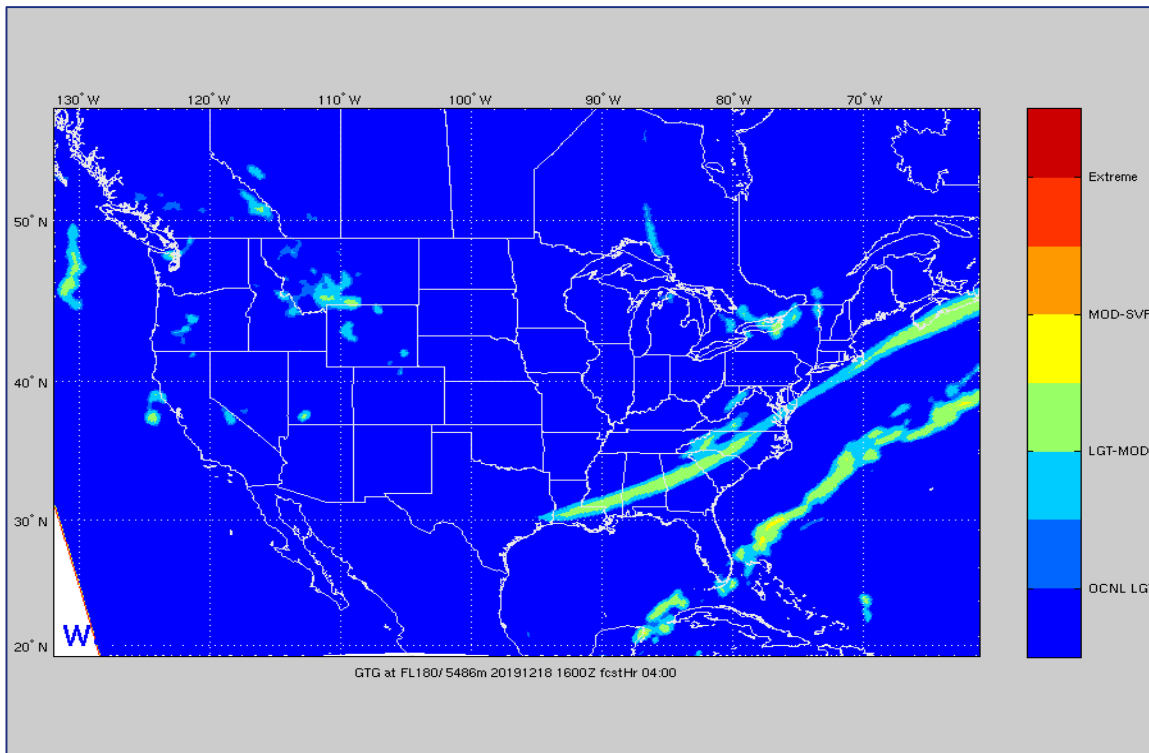
- At the time and location of the incident, The Weather Company had an OCNL MDT turbulence FPG in effect FL190-250 valid through 18z.
- At 1558z, a MDT turbulence pirep was recorded in the immediate vicinity of KRIC at FL220. The remarks indicated turbulence diminished at FL190.
- This is the only pirep that occurred in the hour preceding the incident.

12z Weather Company FPGs Valid 15z



- During the Planning stages of the flight (13z), The Weather Company had an OCNL MDT turbulence FPG FL190-250 forecasted across much of VA into NC valid from 15z through 18z.
- This is the same FPG that was in effect at the time of the incident.

12z RPM GTG Forecast FL180 Valid 16z

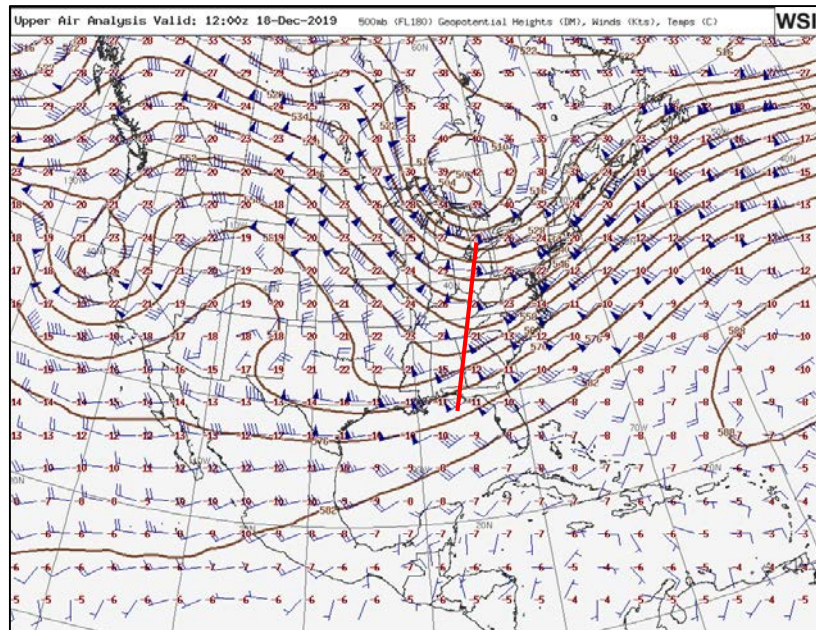


- 12z RPM was forecasting a strip of light to moderate turbulence from North Carolina southwest to the central Gulf Coast.
- Turbulence was forecasted to be of light intensity farther northeastward into Virginia where the incident occurred.

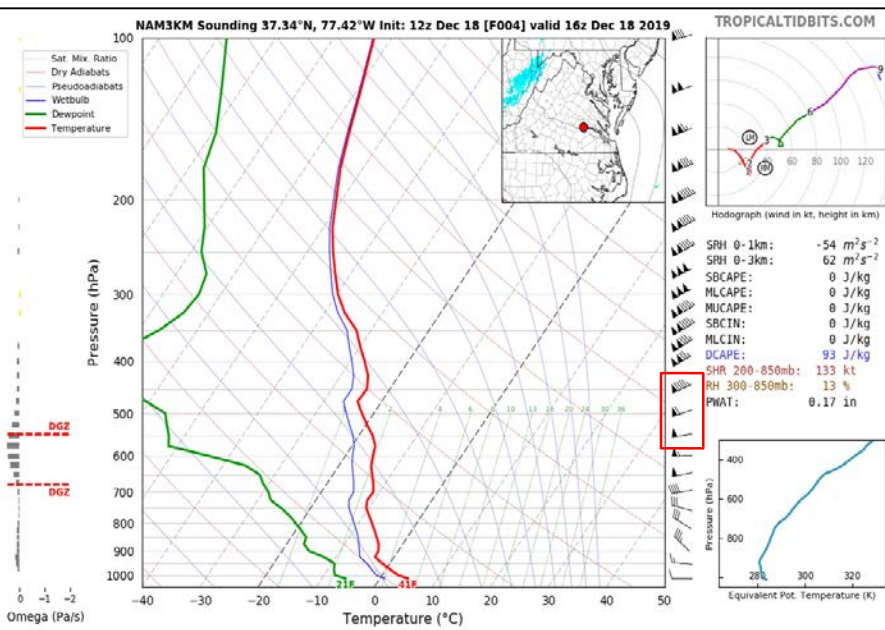


American Airlines

Observed FL180 Winds Valid 12z Dec 18

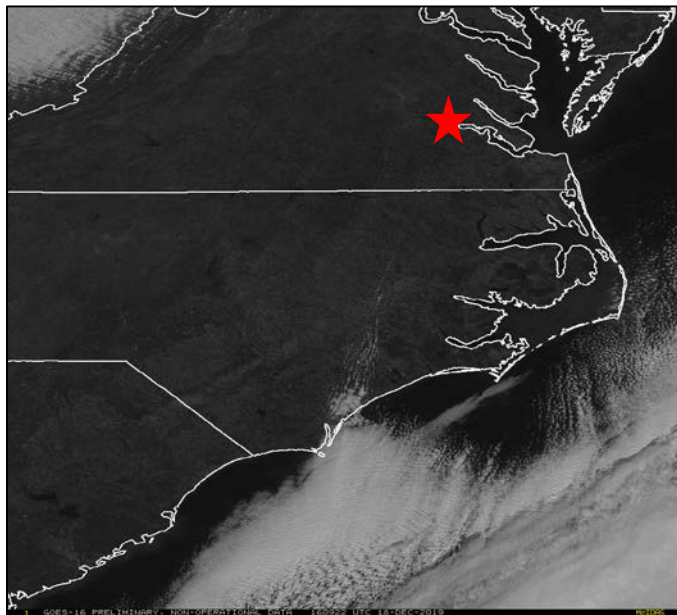


3KM NAM Forecasted Profile Valid 16z Dec 18

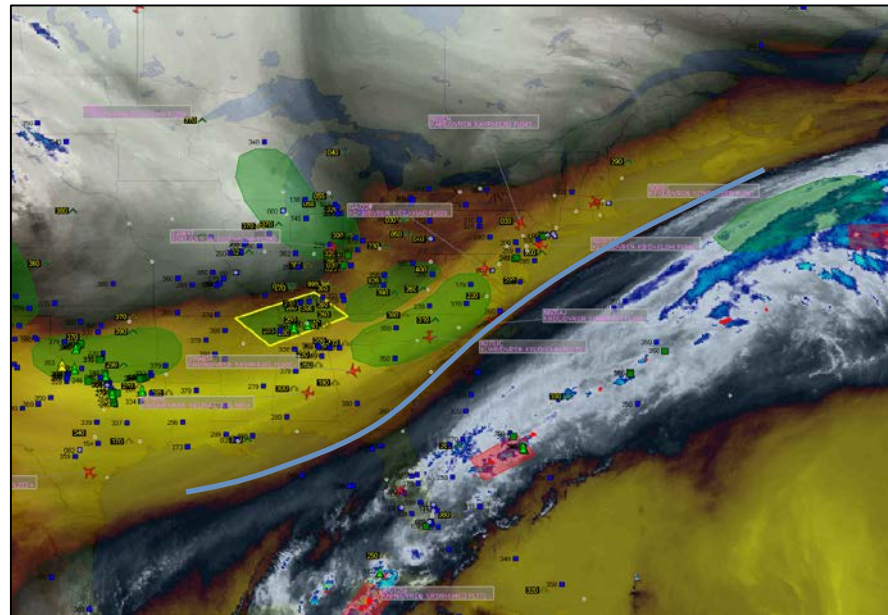


- Observed winds at FL180 from 12z December 18th reveal a strong southwesterly belt of winds traversing the Mid Atlantic associated with an approaching upper level trough (Trough axis outlined in red).
- Forecasted atmospheric profile from the 3km NAM valid at 16z reveals a strong vertical wind shear zone focused right near FL180. This zone of speed shear is conducive to the generation of CAT.

GOES-16 Satellite Imagery Valid 1609z Dec 18



Fusion Water Vapor Imagery Valid 1609z



- High resolution satellite imagery reveals clear skies were present at the time of the incident (Location of incident marked with red star).
- Water Vapor Imagery reveals dry descending air was filtering in associated with the approaching upper level trough with the moisture gradient outlined in blue.

Weather Summary

- At the time and location of the incident, The Weather Company had an OCNL MDT turbulence FPG in effect FL190-250 valid through 18z.
- At 1558z, a MDT turbulence pirep was recorded in the immediate vicinity of KRIC at FL220. The remarks indicated turbulence diminished at FL190. This is the only pirep that occurred within an hour of the incident.
- During the Planning stages of the flight (13z), The Weather Company had an OCNL MDT turbulence FPG FL190-250 forecasted across much of VA into NC valid from 15z through 18z.
- While the RPM GTG forecast indicated turbulence at FL180 was likely to be of light intensity across Virginia, forecast soundings were predicting a strong belt of vertical wind shear, which is conducive to the formation of CAT.
- Satellite and water vapor imagery indicated clear skies were present, confirming the turbulence source as CAT.

WXM-FLT AAL2247/18 LGA RDU RTE 1 ALT N/R TOA 181344
SKD 1459/1658Z

MAP FEATURES
NONE

LGA

181251Z 29012KT 10SM CLR 01/M06 A2986 RMK AO2 SLP111
T00061056

RDU

181251Z VRB04KT 10SM FEW250 01/M07 A3009 RMK AO2 SLP189
T00111067

TRMNL SIGMEC
NONE ISSUED

CAT SIGMEC
NONE ISSUED

TSTM SIGMEC
NONE ISSUED

VASH SIGMEC
NONE ISSUED

ICING SIGMEC
NONE ISSUED

TRMNL SIGMEC
NONE ISSUED

LGA TAF/

TAF KLGA 180810Z 1809/1909 30012KT P6SM FEW025
FM181600 28012G20KT P6SM SCT030
FM181900 27018G25KT P6SM BKN040
PROB30 1820/1900 29025G35KT 1SM -SHSN BR BKN030
FM190000 30025G35KT P6SM BKN050
FM190700 29020G30KT P6SM FEW050

WSI/BE

RDU TAF KRDU 181120Z 1812/1912 35009KT P6SM BKN250
FM181500 32009KT P6SM FEW250

NOTAMS

LGA NO/

- KLGA/LGA - LA GUARDIA

AIRPORT -----

-RWY STATUS LGT SYSTEM U/S
02DEC19/1318 03JAN20/2359

KLGA A3249/19

RUNWAY -----

-RWY 04 LEAD OFF LGT AT TWY F NOT STD

14NOV19/1120 15NOV20/1100	KLGA A3078/19
-RWY 04 LEAD OFF LGT AT TWY Q NOT STD 14NOV19/1119 15NOV20/1100	KLGA A3077/19
-RWY 22 LEAD OFF LGT AT TWY D NOT STD 14NOV19/1116 15NOV20/1100	KLGA A3076/19
-RWY 22 LEAD OFF LGT AT TWY C NOT STD 14NOV19/1113 15NOV20/1100	KLGA A3075/19
-RWY 22 LEAD OFF LGT AT TWY CY NOT STD 14NOV19/1111 15NOV20/1100	KLGA A3074/19
-RWY 22 LEAD OFF LGT AT TWY Y NOT STD 14NOV19/1110 15NOV20/1100	KLGA A3069/19
-RWY 22 LEAD OFF LGT AT TWY YY NOT STD 14NOV19/1109 15NOV20/1100	KLGA A3073/19
-RWY 04/22 CL MARKINGS NOT STD 1911071624-2006061800 07NOV19/1624 06JUN20/1800	KLGA 11/049
----- APPROACH AND LANDING -----	
-RNAV GPS Y RWY 31, ORIG... PROCEDURE NA. 21NOV19/2104 22NOV21/2104	KLGA A3162/19
-COPTER ILS OR LOC RWY 13, ORIG-A... PROCEDURE NOT AUTH. 26AUG19/1925 27AUG21/1924	KLGA A2356/19
-RNAV GPS RWY 13, ORIG-A... MNM ALT AT MEATZ FAF 1320. MEATZ TO RW13: 3.29/55. RADAR VECTORS TO MEATZ NOT AUTH. 02AUG19/1917 02AUG21/1916	KLGA A2147/19
-ILS OR LOC RWY 13, AMDT 2A... ILS OR LOC RWY 22, AMDT 21B... ILS OR LOC RWY 04, AMDT 37A... LDA-A, AMDT 2E... LOC RWY 31, AMDT 3C... RNAV GPS RWY 13, ORIG-A... RNAV GPS Y RWY 22, AMDT 2E... RNAV GPS Y RWY 31, ORIG... RNAV GPS Y RWY 04, AMDT 3B... RNAV GPS Z RWY 31, AMDT 1F... RNAV GPS -B, ORIG-B... VOR RWY 4, AMDT 3D... CIRCLING CAT D MDA 1260/HAA 1239. BUILDING, 949FT MSL, 4.21NM WEST OF KLGA 2017-AEA-10796-OE PERMANENT . 25APR19/1643 25APR21/1643	KLGA A1249/19

-VOR RWY 04, AMDT 3D...

RADAR REQUIRED FOR PROC ENTRY EXC FOR ACFT EQUIPPED
WITH SUITABLE RNAV SYSTEM WITH GPS,
COL VOR U/S.

28FEB19/1925 28FEB21/1925

KLGA A0549/19

----- DEPARTURE PROCEDURES -----

-TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES AMDT
10... TAKE-OFF MINIMUMS RWY 31, STANDARD WITH A MINIMUM CLIMB
OF 488FT PER NM TO 2400 OR PROCEDURE NA.

TEMPORARY CRANE, 1786FT MSL, 4.98 NM WEST OF KLGA
2019-AEA-569-OE .

ALL OTHER DATA REMAINS AS PUBLISHED.

16SEP19/1756 15JAN20/1756

KLGA A2533/19

-LA GUARDIA FIVE DEPARTURE...

TAKE-OFF MINIMUMS RWY 31, STANDARD WITH A MINIMUM CLIMB OF
488FT PER NM TO 2400 OR PROCEDURE NA.

TEMPORARY CRANE, 1786FT MSL, 4.98 NM WEST OF KLGA
2019-AEA-569-OE .

ALL OTHER DATA REMAINS AS PUBLISHED.

16SEP19/1756 15JAN20/1756

KLGA A2532/19

-LA GUARDIA FIVE DEPARTURE...

DIXIE AND WHITE DEPARTURES: NA EXCEPT FOR AIRCRAFT EQUIPPED
WITH SUITABLE RNAV SYSTEM WITH GPS, COL VOR U/S.

28FEB19/1922 28FEB21/1922

KLGA A0548/19

----- TAXIWAY -----

-TWY D , TWY F WEST OF TWY BB CLSD FOR DEICING

1912181310-1912181600

18DEC19/1310 18DEC19/1600

KLGA 12/166

-TWY M BTN TWY A AND TWY Z CLSD FOR DEICING

18DEC19/1059 18DEC19/1400

KLGA A3476/19

-TWY AC CLSD

17NOV19/1752 17NOV20/1900

KLGA A3128/19

-TWY P CL MARKINGS FOR APCH END RWY 13 FADED

1911171722-2006302300

17NOV19/1722 30JUN20/2300

KLGA 11/140

-TWY P SFC PAINTED HLDG PSN SIGNS FOR APCH END RWY 13 FADED

1911152249-2005312300

15NOV19/2249 31MAY20/2300

KLGA 11/128

-TWY D, TWY F CLSD WEST OF TWY BB

SCHEDULE: DAILY 0100-1300

12NOV19/0100 07MAR20/1300

KLGA A3032/19

-TWY Z BTN TWY A AND TWY M CLSD TO ACFT WINGSPAN MORE THAN
135FT

11JUN18/1605 01JAN20/0501

KLGA A1986/18

----- GENERAL -----

-AIRSPACE SEE FDC 7/5997 ZNY 91.141 VIP TFR 1701192220-PERM
19JAN17/2220 UFN KLGA 01/270

----- OBSTACLE -----

-OBST STACK ASN UNKNOWN 404617N0735928W 4.9NM W LGA
528.35FT 505FT AGL NOT LGTD 1912031249-2001032359
03DEC19/1249 03JAN20/2359 KLGA 12/048

-OBST CRANES ASN 2017-AEA-837-NRA 404619N0735202W 0.4NM SE
LGA 238FT 230FT AGL FLAGGED AND LGTD MULT CRANES ADJ DELTA
RAMP 1905061632-2001010501
06MAY19/1632 01JAN20/0501 KLGA 05/041

-OBST CRANES ASN 2018-AEA-1648-NRA 404635N0735219W 0.1NM
SSE LGA 132FT 126FT AGL FLAGGED AND LGTD MULT CRANES ADJ
MAIN RAMP 1905061631-2001010501
06MAY19/1631 01JAN20/0501 KLGA 05/040
RDU NO/

- KRDU/RDU - RALEIGH-DURHAM INTL
-----/

----- RUNWAY -----

-RWY 05R/23L CLSD
19DEC19/1300 19DEC19/2359 KRDU A2047/19

----- APPROACH AND LANDING -----

-ILS RWY 23L U/S
19DEC19/1100 20DEC19/0001 KRDU A2028/19

-ILS RWY 05R U/S
19DEC19/1100 20DEC19/0001 KRDU A2027/19

-RNAV RNP Z RWY 5R, AMDT 2B...
RNP 0.30 DA 846/HAT 426. VIS RVR 4000 ALL CATS.
FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO
RVR 6000.
TEMPORARY CRANES UP TO 530 MSL 5061 FT S OF RWY 5R
2018-ASO-8390/8391-OE .
19OCT19/1100 23DEC20/1248 KRDU A1674/19

-RNAV GPS Y RWY 5R, AMDT 3A...
LNAV/VNAV DA 741/HAT 321, VIS RVR 2600 ALL CATS.
LNAV MDA 840/HAT 420 ALL CATS, VIS CATS C/D RVR 4000.
FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY
TO RVR 5000 AND LNAV CATS C/D VISIBILITY TO RVR 6000.
TEMPORARY CRANES UP TO 530 MSL 5061 FT S OF RWY 5R
2018-ASO-8390/8391-OE .
19OCT19/1100 23DEC20/1248 KRDU A1673/19

-RNAV RNP Z RWY 5L, AMDT 2B...

TERMINAL ROUTE FROM HEAVE IF TO VANZI FAF NOT AUTH.
11SEP19/1642 21MAY20/0901 KRDU A1476/19

-RNAV RNP Z RWY 23L, AMDT 2B...
TERMINAL ROUTE FROM KENCH IF TO WOMEB FAF NOT AUTH.
11SEP19/1642 21MAY20/0901 KRDU A1474/19

-RNAV RNP Z RWY 5R, AMDT 2B...
TERMINAL ROUTE FROM STINT IF TO STANZ FAF NOT AUTH.
11SEP19/1642 21MAY20/0901 KRDU A1475/19

-RNAV RNP Z RWY 23R, AMDT 2B...
TERMINAL ROUTE FROM GLEYS IF TO JEMAD NOT AUTH.
11SEP19/1642 21MAY20/0901 KRDU A1473/19

-RWY 23L ILS DME UNUSABLE BEYOND 28 DEG LEFT OF RCL
11SEP19/1147 11MAR20/2111 KRDU A1471/19

-VOR RWY 32, AMDT 3E...
HIRTO FIX MINIMUMS NA.
04JAN19/1658 04JAN21/1658 KRDU A0010/19

-NAV ILS RWY 23R DME NOT MNT 1812311727-1912312000EST
31DEC18/1727 31DEC19/2000 KRDU 12/414

-RNAV GPS RWY 32, ORIG-A...
MISSED APPROACH: CHANGE MISSED APPROACH TO READ: CLIMB ON
COURSE 322 TO KASLE, THEN CLIMBING RIGHT TURN TO 2200 DIRECT
DUHAM AND HOLD.
NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT
AUTHORIZED.
19DEC18/1556 19DEC20/1556 KRDU A1724/18

-RNAV RNP Z RWY 23R, AMDT 2B...
RNP 0.15 DA 801/HAT 392 ALL CATS.
17DEC18/1949 17DEC20/1948 KRDU A1720/18

----- DEPARTURE PROCEDURES -----

-TAR HEEL ONE DEPARTURE...
CAROLINA BEACH TRANSITION NA EXCEPT FOR ACFT EQUIPPED WITH
SUITABLE RNAV SYSTEM WITH GPS,
CLB NDB OUT OF SERVICE.
30OCT19/1703 31OCT21/1702 KRDU A1735/19

----- NAVIGATION -----

-TYI NAV VORTAC NOT MNT 1912180103-1912202000EST
18DEC19/0103 20DEC19/2000 KRDU 12/239

-RDU NAV VOR GND REC CHECKPOINT U/S 1912171809-2006172111EST
17DEC19/1809 17JUN20/2111 KRDU 12/231

-BZM NAV VOR U/S 1911291141-2001172000EST
29NOV19/1141 17JAN20/2000 KRDU 11/311

-SDZ NAV VOR OUT OF SERVICE 1908301413-2009012359EST
30AUG19/1413 01SEP20/2359 KRDU 08/393

-SDZ NAV DME 041-050 SFC-2900FT UNUSABLE PLUS SEE U.S. CHART
SUPPLEMENT 1703021348-PERM
02MAR17/1348 UFN KRDU 03/035

-SDZ NAV DME 360-031 SFC-2900FT UNUSABLE PLUS SEE U.S. CHART
SUPPLEMENT 1703021341-PERM
02MAR17/1341 UFN KRDU 03/032

-DME DIW/DIXON CH107X U/S.
06DEC16/1347 UFN KRDU A0602/19

-DIW NAV DME OUT OF SERVICE 1612061347-PERM
06DEC16/1347 UFN KRDU 12/046

----- TAXIWAY -----

-TWY B7, B8, TWY B BTN TWY B6 AND TWY B9 CLSD
09DEC19/1903 09FEB20/0001 KRDU A1966/19

-TWY F2 CLSD
27NOV19/0929 27MAY20/1700 KRDU A1907/19

-TWY C BTN TWY G AND TWY F CLSD
TO ACFT WINGSPAN MORE THAN 118FT
05NOV19/2305 05MAY20/2300 KRDU A1774/19

-TWY D CLSD TO ACFT WINGSPAN MORE THAN 171FT WHEN TWY G AND H
ARE OCCUPIED
18APR19/1702 UFN KRDU A0492/19

-TWY F5 CLSD
07FEB19/1534 07FEB21/1300 KRDU A0122/19

-TAXILANE F BTN TWY T1 AND TWY T7 CLSD TO ACFT WINGSPAN
MORE THAN 171FT
30MAY17/1846 UFN KRDU A0682/17

----- OBSTACLE -----

-OBST TOWER LGT ASR 1002990 360333.30N0785710.20W 13.4NM NW
RDU 932.7FT 482.9FT AGL U/S 1912180646-2001170646
18DEC19/0646 17JAN20/0646 KRDU 12/240

-OBST TOWER LGT ASR 1274069 355535.30N0783521.40W 10.1NM
ENE RDU 761.2FT 357.6FT AGL U/S 1912051526-2002051530
05DEC19/1526 05FEB20/1530 KRDU 12/053

-OBST TOWER LGT ASR 1048276 355617.00N0790135.00W 12.0NM
WNW RDU 478.0FT 203.1FT AGL U/S 1912031513-2001062359
03DEC19/1513 06JAN20/2359 KRDU 12/020

-OBST TOWER LGT ASR 1008551 354807.00N0784856.00W 4.8NM SSW
RDU 788.7FT 418.6FT AGL U/S 1911240140-2001010500

24NOV19/0140 01JAN20/0500

KRDU 11/269

-OBST COOLING TOWER ASN UNKNOWN 353801N0785723W 7.6NM ENE
TTA 784FT 523FT AGL NOT LGTD 1911141724-2105312359
14NOV19/1724 31MAY21/2359 KRDU 11/163

NO/A

- MARSDEN SQUARE 1520 -
-----/

----- NAVIGATION -----

-GPS FTSTVA GPS 19-72 INCLUDING WAAS, GBAS,
AND ADS-B MAY NOT BE AVBL WI A 100NM RADIUS CENTERED AT
365549N0760053W ORF086009 FL400-UNL,
101NM RADIUS AT FL250
103NM RADIUS AT 10000FT
71NM RADIUS AT 4000FT AGL,
13NM RADIUS AT 50FT AGL.
SCHEDULE: DAILY 1200-2159
16DEC19/1200 18DEC19/2159 KZNY A0416/19

NO/A

- MARSDEN SQUARE 1166 -
-----/

----- NAVIGATION -----

-GPS FTSTVA GPS 19-72 INCLUDING WAAS, GBAS,
AND ADS-B MAY NOT BE AVBL WI A 100NM RADIUS CENTERED AT
365549N0760053W ORF086009 FL400-UNL,
101NM RADIUS AT FL250
103NM RADIUS AT 10000FT
71NM RADIUS AT 4000FT AGL,
13NM RADIUS AT 50FT AGL.
SCHEDULE: DAILY 1200-2159
16DEC19/1200 18DEC19/2159 KZDC A0307/19

-GPS FTSTVA GPS 19-72 INCLUDING WAAS, GBAS,
AND ADS-B MAY NOT BE AVBL WI A 100NM RADIUS CENTERED AT
365549N0760053W ORF086009 FL400-UNL,
101NM RADIUS AT FL250
103NM RADIUS AT 10000FT
71NM RADIUS AT 4000FT AGL,
13NM RADIUS AT 50FT AGL.
SCHEDULE: DAILY 1200-2159
16DEC19/1200 18DEC19/2159 KZDC A0307/19

FIELD CONDITIONS

LGA 110416
/FC

* LGA FIELD REPORT *

DATE 18DEC19 TIME 0844 LOCAL

EXISTING TAA SEE NOTAMS

RWY	STATUS	CONDITIONS	REMARKS
04 /22	OPEN	WET	-LANDING RWY 22-
13 /31	OPEN	WET	-TAKEOFF RWY 31-
RAMP/TXWY	SURFACE	WET	

SPECIAL ADVISORIES

YOWEROUT AUTH.FOR HARDSTAND GATES D9A - G . AA OPNS DOOR [REDACTED]
 WEST CNCRS DOOR TO AA OPNS/ENVOY/REPUBLIC CREW ROOMS [REDACTED]
 CNCRS B,C AND D GATE/JETDRIDGE CODE [REDACTED]. RMP CNTRL OPEN 24 HR
 ALL DPTRS/ARVLS MUST CALL RAMP CNTRL PRIOR TO PUSH BACK OR
 ENTERING THE RAMP AREA. MAINTAIN RADIO CTC UNTIL RLSD TO GRND
 TAXING MORE THAN 120 MINS CTC OPNS/ RAMP OPEN 24HRS [REDACTED]

OPS RADIO FREQ	SEE BELO	OPS PHONE	[REDACTED]
ATIS FREQ	127.05	ATIS PHONE	[REDACTED]
MAINT FREQ	[REDACTED]	MAINT PHONE	[REDACTED]
PHONE PATCH FREQ	N/A	PATCH PHONE	N/A
ACARS FREQ	[REDACTED]	GROUND PWR	YES GROUND AIR YES

REMARKS

RAMP CNTRL FREQ - [REDACTED] ALL C D GATES
 . HARDSTAND GATES 2B, D9A-D9G)
 . [REDACTED] GATES 42-58
 OPERATIONS FREQ - [REDACTED] ALL D GATES
 . - [REDACTED] ALL C GATES
 . - [REDACTED] GATES 47-58
 ENVOY/PSA ACFT OPS FREQ - [REDACTED]
 ENVOY MNTC FREQ - [REDACTED]
 DEICING FREQ - AMERICAN/REPUBLIC LL C D GATES) - [REDACTED]
 . ENVOY/PSA/REPUBLIC ATES 42-58) - [REDACTED]
 TAXI IN/OUT OF HARDSTAND GATES MUST BE APPROVED BY RAMP CNTRL

UPDATED 0757/18DEC C P EASON

RDU 110416
 /FC

* RDU FIELD REPORT *

DATE 18DEC19 TIME 0844 LOCAL

EXISTING TAA SEE NOTAMS

RWY	STATUS	CONDITIONS	REMARKS
05L /23R	OPEN	DRY	
05R /23L	OPEN	DRY	
RAMP/TXWY	SURFACE	DRY	

SPECIAL ADVISORIES

RAMP TWR [REDACTED] AA OPS [REDACTED] AA MTC [REDACTED] ENVOY OPS [REDACTED]
 AND [REDACTED] VIEW NOTAMS CAREFULLY DUE TO ARPT CONSTRUCTION
 RAMP DOOR [REDACTED]
 GATES C21 C23 DO NOT HAVE CLEARLY PAINTED GRD EQUIP LIMIT
 LINES, EXERCISE CAUTION AND PROCEED VIA GUIDEMAN S SIGNAL.

TWO WINGWALKERS ARE REQUIRED FOR TAXI IN

OPS RADIO FREQ [REDACTED] L OPS PHONE [REDACTED]
ATIS FREQ 123.8 ATIS PHONE [REDACTED]
MAINT FREQ [REDACTED] M MAINT PHONE [REDACTED] AA
PHONE PATCH FREQ [REDACTED] PATCH PHONE N/A
ACARS FREQ N/A GROUND PWR YES GROUND AIR YES

REMARKS

RAMP CONTROL FREQ [REDACTED] CONTACT FOR PUSHBACK AND TAXI ***
BRIDGE CODE [REDACTED] PLS ENSURE DOOR LOCKS BEHIND YOU ***
*C ENVOY OPS HOURS 0430-0030 PHONE [REDACTED] ***
*C US/AA OPS HOURS 0400-0030 PHONE [REDACTED] ***
*****GATES C-11 THRU C-18*****
OPS RADIO FREQ [REDACTED] ***
*** DEICE FREQ IS AA [REDACTED] AE [REDACTED] ***

ORIG AA FREQ IS OPERATIONAL
FOR ANY AA MAINT ISSUES...PLS CONTACT [REDACTED]

UPDATED 0315/18DEC W D FOSTER
END DATA

DEICING CONDITIONS

LGA 110416
/DI

* LGA DEICING REPORT *

DATE 18DEC19 TIME 0844 LOCAL

DEICING IN EFFECT YES AIRCRAFT TYPE ALL
DEICING LOCATIONS TYPE FLUID IN USE
PRIMARY GATE TYPE 1- SFEWNG MP 1 LFD
SECONDARY HANGER LINE TP4-CLARIN SFWWNG MP 4
PRE-TAKEOFF CHECK SITES GATES / HANGAR LINE
ANTICIPATED DEICE/OFF TIME 20 MIN

REMARKS

17 OF 19 TRUCKS PER SP/ TAIL DEICING ON REQUEST [REDACTED]
TYPE1 GLYCOL - 36400 AVBL GALLONS
TYPE4 GLYCOL - 17500 AVBL GALLONS
TWR D RAMP CTL [REDACTED] / TWR C RAMP CTL [REDACTED]

COORDINATOR [REDACTED] PHONE [REDACTED] FREQ [REDACTED]

UPDATED 0720/18DEC S A CROSTA
END DATA