



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

May 12, 2020

Attachment 4 – Accident Flight Dispatch Release

OPERATIONAL FACTORS

DCA20CA071

@QU INTXSAA
.DAY75AA 070438
FFL
5634/06/610/2350

--
-CLT TYS CHA
RELEASE FLIGHT IFR 07FEB20
TAIL TYP FLT ORG DST TOA AL1 AL2 PAYLD/PAX/BAG T/OFUEL RAMP
610 RJ9 5634 CLT TYS CHA 18835/076/133 7243 9564
AC REG
N610NN

DISPATCH RELEASE 27171702 GENERATED AT 0438 07FEB20 UTC

SUBJECT TO THE FOLLOWING CONDITIONS
TAKEOFF ANALYSIS REMARKS - FLIGHT 5634 CLT
FLAPS HALFSPEED
WET RUNWAY
////EXTRA FUEL FOR TANKERING////
AMEND RELEASE FA SWAP JSB 0438Z
LANDING ANALYSIS REMARKS - FLIGHT 5634 TYS
FLAPS HALFSPEED
WET RUNWAY

.....
BY SIGNING THIS DISPATCH RELEASE I ACKNOWLEDGE THAT THIS
FLIGHT CAN BE CONDUCTED SAFELY AND IN ACCORDANCE WITH ALL
APPLICABLE FARs.

ETD-0450Z ETA-0551Z DISPATCH DESK-DY
SIGNED BY DISPATCHER [REDACTED]
DISPATCHER PHONE [REDACTED]

.....
CAPT [REDACTED] F/O [REDACTED]
F/A [REDACTED] F/A [REDACTED]
C/F [REDACTED] C/F [REDACTED]

.....
DISPATCH RELEASE ACCEPTANCE
I ACKNOWLEDGE RECEIPT OF THIS RELEASE AND CERTIFY THIS
FLIGHT CAN BE CONDUCTED SAFELY AND THAT I MEET THE
REQUIREMENTS OF 14CFR PARTS 121.439 THRU 445 AND 117.5D.
I HAVE REVIEWED AND ENSURED COMPLIANCE WITH THE EFB STAR.

CAPTAINS SIGNATURE
I AM IN COMPLIANCE WITH 117.5D. I HAVE REVIEWED AND ENSURED
COMPLIANCE WITH THE EFB STAR.

FIRST OFFICER SIGNATURE
PAX BOOKED 63

FLIGHT DATE	ORG	DEST	ALT1	ALT2	A/C TYPE	ENGINES	TAIL
5634	07FEB20	CLT	TYS	CHA	CL600-2D24	CF34-8	N610NN
						OP INDEX	-00003.9

SPEED SCHEDULES	CLIMB	290/M74	CRUISE	CI030	DESCENT	M74/290
	FUEL	TIME	PLAN	ACT	STRUC	SKED /ACT
BURN	2224	00.31	BOW	49346		LIMIT
RESERVE	2437	00.45	PYLD	15120		OUT 0056. . .
ALT	1500	00.18	ZFW	64466		70750
CONTINGY	1082	00.25	FOB	9143		19594 OFF. . ./ . . .
T/OFUEL	7243	01.59	TOW	73609		84500
TANKER	1900	00.35	BURN	2224		ON . . ./ . . .

TAXI	421	00.22	LGW	71385.....	75100		
RAMP	9564		FOD	6919		IN	0202. . .
COST INDEX	30						

ROUTE R00 0166M WIND M048 ETE 00.31 TAXI IN 0008

.FPL-JIA5634-IS
 -CRJ9/M-SDE3FGRWZ/LB1
 -KCLT0206
 -N0426F220 BOBZY4 BOBZY DCT BRAYN DCT REWET DCT VXV DCT
 -KTYS0031 KCHA
 -PBN/B2B3B4C2D2D302 NAV/RNVD1E2A1 SUR/260B REG/N610NN
 CODE/A7EFF7.

FLIGHT PLAN VALID FOR DEPARTURE UNTIL 0406 07FEB20

... A/C INFO ...
 PLACARD.....DESCRIPTION.....
 27-51-2-2A FLAP SUBSYSTEM
 25-21-01 PASSENGER SEATS 8A

CKPT	LAT	LONG		SEG		SEG	TTL	ADBO
FREQ	FL	WIND	TEMP MH	MC	DIST GS	TIME	TIME	FRMG
KCLT								09143
LACHN	N35 11.7	W081 19.8						08534
	CL	M18 269	269	010	CL	00.05	00.05	00253
YNGUN	N35 11.3	W081 32.0						08282
	CL	M18 268	268	005	CL	00.02	00.07	00126
BOBZY	N35 11.1	W081 38.0						08156
	CL	M18 264	264	005	CL	00.01	00.08	00114
BRAYN	N35 10.4	W082 12.7						07766
	22 20106	M18 264	264	023	365	00.04	00.12	00525
REWET	N35 24.8	W083 14.8						07215
	DC	M20 273	273	006	DC	00.01	00.21	00166
VXV	N35 54.3	W083 53.7						07049
	DC	M22 306	306	043	DC	00.09	00.30	00130
KTYS	N35 48.6	W083 59.7				00.01	00.31	06919

ENROUTE SPOT WIND SUMMARY							
TO	HIGHER	PLANNED	LOWER LEVELS		FL100		
	FL WIND	FL WIND	FL WIND	FL WIND	FL WIND	FL WIND	FL WIND
KCLT	24 207094	22 209090	20 211087	18 213084	235063		
LACHN	24 205097	22 208094	20 211092	18 214090	238058		
YNGUN	24 204098	22 208096	20 211094	18 214093	240056		
BOBZY	24 202109	22 207108	20 211107	18 215106	246047		
BRAYN	24 205132	22 208127	20 212123	18 216118	232030		
REWET	24 205137	22 208131	20 210126	18 213120	212027		

TAKEOFF AND LANDING REPORT JIA 5634 CLT-TYS 06FEB20

TLR-2 SEQ-7908384C 07FEB20 0438Z
A/C 610 CL600-2D24 CF34-8C5

/// TAKEOFF DATA ///

APT	PRWY	POAT	PWIND	PQNH	PMRTW	FLP	MAXV1	PTOW	MFPTW
CLT	18C	16.0	000M00	29.45	881	8	138	736	77324

RMKS FLAPS HALFSPEED
WET RUNWAY

RWY	MTOW	MT	CONFIG	N1	FL	V1	VR	V2	VT
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----- ACARS RUNWAYS -----

RWY	ACARS	LENGTH	PMTOW	EFP	NOTES
05		7502	773	DT	H056
05/F		7000	773	DT	H056
18C		10000	773	DT	H184
18C/E10		9650	773	DT	H184
18C/E9		8500	773	DT	H184
18C/E8		6800	773	DT	H184
18L		8676	773	DT	H184
18L/C11		8400	773	DT	H184
18L/C10		7200	773	DT	H184
18R		9000	773	DT	H184
18R/W9		8650	773	DT	H184
18R/W8		7300	773	DT	H184
18R/W7		6100	773	DT	H184
23		7502	773	DT	H236
23/A8		7050	773	DT	H236
23/D		6400	773	DT	H236
23/C		5185	719	DT	H236
36C		10000	773	DT	H004
36C/E2		9650	773	DT	H004
36C/E3		8500	773	DT	H004
36C/E4		7300	773	DT	H004
36C/E5		4850	683	DT	H004
36L		9000	773	DT	H004
36L/W2		8600	773	DT	H004
36L/W3		7300	773	DT	H004
36L/W4		6000	771	DT	H004
36R		8676	773	DT	H004 NOTAMS 02/051
36R/C2		8200	773	DT	H004
36R/C3		7600	773	DT	H004
36R/C4		6150	761	DT	H004

WET RWY	PTOW	EAI	OR	EWAI	AS	RQRD	N1	FL	V1	VR	V2	VT
RWY	MTOW	MT	CONFIG									

05	736	39	FLEX -	RLNG -	BL	OP	86.0	20	29	32	38	97
18C	736	46	FLEX -	RLNG -	BL	OP	85.3	8	37	42	51	97
18L	736	44	FLEX -	RLNG -	BL	OP	85.3	20	28	33	39	97
18R	736	44	FLEX -	RLNG -	BL	OP	85.3	20	28	33	39	97
23	736	44	FLEX -	RLNG -	BL	OP	85.3	20	27	33	39	97
23/C	----	--					-----	--	--	--	--	--
36C	736	44	FLEX -	RLNG -	BL	OP	85.3	8	37	42	51	97
36L	736	44	FLEX -	RLNG -	BL	OP	85.3	20	28	33	39	97

36R 736 38 FLEX - RLNG - BL OP 86.4 8 36 41 50 97

----- WET RWY - PTOW PLUS 1000 - EAI OR EWAI AS RQRD -----
RWY MTOW MT CONFIG N1 FL V1 VR V2 VT
05 746 37 FLEX - RLNG - BL OP 86.7 20 29 33 39 98
18C 746 45 FLEX - RLNG - BL OP 85.3 8 38 43 52 98
18L 746 43 FLEX - RLNG - BL OP 85.4 20 29 34 40 98
18R 746 43 FLEX - RLNG - BL OP 85.4 20 29 34 40 98
23 746 42 FLEX - RLNG - BL OP 85.5 20 27 34 40 98
23/C -----
36C 746 43 FLEX - RLNG - BL OP 85.4 8 38 43 52 98
36L 746 43 FLEX - RLNG - BL OP 85.4 20 29 34 40 98
36R 746 37 FLEX - RLNG - BL OP 86.7 20 28 33 40 98

----- WET RWY - PTOW - EAI OR EWAI AS RQRD - 10KT TW -----
RWY MTOW MT CONFIG N1 FL V1 VR V2 VT
05 736 25 FULL - RLNG - BL OP 89.6 20 25 30 39 97
18C 736 41 FLEX - RLNG - BL OP 85.6 20 27 32 39 97
18L 736 40 FLEX - RLNG - BL OP 85.7 20 27 32 39 97
18R 736 39 FLEX - RLNG - BL OP 86.0 20 27 32 39 97
23 736 32 FLEX - RLNG - BL OP 88.3 20 25 31 40 97
23/C -----
36C 736 39 FLEX - RLNG - BL OP 86.0 20 27 32 38 97
36L 736 41 FLEX - RLNG - BL OP 85.6 20 27 33 39 97
36R 736 33 FLEX - RLNG - BL OP 88.0 20 26 31 39 97

- WET RWY - PTOW PLUS 1000 - EAI OR EWAI AS RQRD - 10KT TW --
RWY MTOW MT CONFIG N1 FL V1 VR V2 VT
05 746 17 FULL - RLNG - BL OP 89.6 20 29 31 40 98
18C 746 40 FLEX - RLNG - BL OP 85.7 20 28 33 40 98
18L 746 38 FLEX - RLNG - BL OP 86.4 20 28 33 40 98
18R 746 38 FLEX - RLNG - BL OP 86.4 20 28 33 40 98
23 746 30 FULL - RLNG - BL OP 89.6 20 26 31 41 98
23/C -----
36C 746 38 FLEX - RLNG - BL OP 86.4 20 28 33 39 98
36L 746 40 FLEX - RLNG - BL OP 85.7 20 29 34 40 98
36R 746 31 FLEX - RLNG - BL OP 88.6 20 27 32 40 98

----- WET RWY - PTOW - EAI OR EWAI AS RQRD - WSHR -----
RWY MTOW MT CONFIG N1 FL V1 VR V2 VT
05 736 39 FULL - RLNG - BL OP 89.6 20 25 30 39 97
18C 736 46 FULL - RLNG - BL OP 89.6 8 34 39 50 97

18L 736 44 FULL - RLNG - BL OP 89.6 20 25 30 40 97
18R 736 44 FULL - RLNG - BL OP 89.6 20 25 30 39 97
23 736 44 FULL - RLNG - BL OP 89.6 20 25 30 40 97
23/C -----
36C 736 44 FULL - RLNG - BL OP 89.6 8 34 39 50 97
36L 736 44 FULL - RLNG - BL OP 89.6 20 25 30 39 97
36R 736 38 FULL - RLNG - BL OP 89.6 8 34 39 50 97

--- WET RWY - PTOW PLUS 1000 - EAI OR EWAI AS RQRD - WSHR ---
RWY MTOW MT CONFIG N1 FL V1 VR V2 VT
05 746 37 FULL - RLNG - BL OP 89.6 20 26 31 40 98
18C 746 45 FULL - RLNG - BL OP 89.6 8 35 40 51 98
18L 746 43 FULL - RLNG - BL OP 89.6 20 26 31 40 98
18R 746 43 FULL - RLNG - BL OP 89.6 20 26 31 40 98
23 746 42 FULL - RLNG - BL OP 89.6 20 26 31 41 98

23/C	----	--													
36C	746	43	FULL	-	RLNG	-	BL	OP	89.6	8	36	41	51	98	
36L	746	43	FULL	-	RLNG	-	BL	OP	89.6	20	26	31	40	98	
36R	746	37	FULL	-	RLNG	-	BL	OP	89.6	20	26	31	40	98	

/// LANDING DATA ///

APT	PRWY	POAT	PWIND	PQNH	PMRLW	FLP	PLDW
TYS	23L	11.0	000M00	29.38	852	45	713

RMKS FLAPS HALFSPEED
WET RUNWAY

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RWY	OAT	WIND	QNH	MRLW	FLP	VREF	PWR CONFIG/CONDITION

----- ACARS RUNWAYS -----			
RWY	ACARS	LENGTH	NOTES
05R		8600	
23L		8600	

----- BLEEDS ON OR OFF - A/I OFF - NO ICE ACCUM -----							
DRY RWY / WET RWY - LOW VIS							
		05R		23L			
		8600 FT		8600 FT			
OAT	N1	FLAP 45		FLAP 45			
17	90.1	852A/ 852A		852A/ 852A			
15	89.8	852A/ 852A		852A/ 852A			
13	89.5	852A/ 852A		852A/ 852A			
/ 11	89.2	852A/ 852A		852A/ 852A			

----- MIN LDG DIST - FLAPS 45 - NO THR REV CREDIT -----							
LDW	RLD-DRY	6-DRY	5-GOOD	4-MED/GD	3-MED	2-MED/PR	1-POOR
740	5720	4758	6559	6755	7627	9906	11539
730	5658	4712	6478	6684	7544	9774	11405
720	5595	4666	6399	6613	7462	9644	11272
/ 713	5557	4637	6350	6569	7412	9565	11190
710	5533	4619	6320	6542	7380	9515	11139
700	5470	4572	6241	6470	7298	9385	11006
690	5407	4524	6161	6397	7214	9255	10872
HW/KT	-33	-18	-27	-23	-31	-36	-41
TW/KT	112	88	143	133	145	203	213

----- MIN LDG DIST - FLAPS 45 - THR REV CREDIT -----							
LDW	6-DRY	5-GOOD	4-MED/GD	3-MED	2-MED/PR	1-POOR	
740	4513	5653	5924	6461	7499	8418	
730	4470	5583	5861	6391	7399	8320	
720	4426	5514	5799	6322	7300	8223	
/ 713	4399	5473	5761	6279	7240	8163	
710	4382	5447	5737	6252	7203	8126	
700	4337	5379	5674	6182	7105	8029	
690	4291	5309	5610	6112	7006	7931	
HW/KT	-18	-27	-23	-31	-36	-41	
TW/KT	88	143	133	145	203	213	

/// COST INDEX - ECON SPEEDS ///

NO WIND

FL	740	720
280	.661	.655
260	.637	.630
240	.612	.605
220	258	256
200	258	255
180	258	256
160	259	256

40 KNOT HEADWIND

FL	740	720
280	.678	.672
260	.655	.649
240	.632	.625
220	.608	.602
200	268	265
180	270	267
160	270	268

80 KNOT HEADWIND

FL	740	720
280	.698	.692
260	.677	.672
240	.656	.651
220	.637	.631
200	.618	.612
180	286	283

160	288	285
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120 KNOT HEADWIND

FL	740	720
280	.721	.716
260	.703	.699
240	.686	.682
220	.671	.667
200	.656	.652
180	.639	.636
160	.623	.620

END TAKEOFF AND LANDING REPORT JIA 5634 CLT-TYS 06FEB20

WXM-FLT 5634/06 CLT TYS RTE ALT CHA TOA 070444
SKD 0450/0556Z

MAP FEATURES

NONE

CLT

070352Z 16013KT 10SM -RA BKN007 OVC090 16/14 A2935 RMK
A02 SLP931 P0003 T01610144

TYS

070353Z 28010KT 10SM -RA SCT012 OVC029 07/04 A2937 RMK
A02 RAB06 SLP942 P0003 T00720044

CHA

070353Z 28004KT 10SM BKN019 OVC026 08/05 A2941 RMK A02
RAE09 SLP955 P0000 T00780050

TRMNL SIGMEC

NONE ISSUED

CAT SIGMEC

SIGMEC TURB 61310A

VALID 07FEB20/0227Z - 07FEB20/0600Z

NEUS SEUS

INTST MDT

ALT FL280 - FL350

AREA 25W VWV - 35NW VXV - 40S PSK - 55SSW JHW -
25W VWV -

MVT NNE 35KT

OUTLK NC IN INTENSITY

DISC MDT TURBULENCE DUE TO CONV BLOWOFF AND TRANSVERSE BANDI
NG. REPLACES SIGMET 60239. FLIGHT LEVELS LOWER
SLIGHTLY.

WSI/SN

.

SIGMEC TURB 61438B

VALID 07FEB20/0357Z - 07FEB20/0600Z

SEUS

INTST MDT - OCNL SVR

ALT FL60 - FL180

AREA 65WSW VXV - 45ESE VUZ - 25S MCN - 35SW SPA -
65WSW VXV -

MVT NE 25KT

OUTLK NC IN INTENSITY

DISC OCNL SVR TURBC OVER GA ALONG STRONG MIDLEVEL JET BEHIND
FRNTL BNDRY.

WSI/ED

.

SIGMEC TURB 61466A

VALID 07FEB20/0426Z - 07FEB20/0900Z

NEUS SEUS

INTST MDT

ALT FL80 - FL180

AREA 55WSW VXV - 35SW SPA - 15NNE DCA - 70WSW PSB -
55WSW VXV -

MVT NE 35KT

OUTLK NC IN INTENSITY

DISC MDT TURBC OVER WRN NC INTO WV ALONG STRONG MIDLEVEL JET

. REPLACES SIGMET 61236.

WSI/ED

.

SIGMEC TURB 61463A

VALID 07FEB20/0500Z - 07FEB20/0800Z

SEUS WATL

INTST MDT - OCNL SVR

ALT FL280 - FL370

AREA 70NW TAY - 30NE CRG - 55NE FLO - 15NW CLT -
70NW TAY -

MVT NE 35KT

OUTLK NC IN INTENSITY

DISC OCNL SVR TURBC ALONG BACKSIDE OF CONVECTION OVER SC/GA.
REPLACES SIGMET 61342.

WSI/ED

.

TSTM SIGMEC

NONE ISSUED

VASH SIGMEC

NONE ISSUED

ICING SIGMEC

NONE ISSUED

TRMNL SIGMEC

NONE ISSUED

CLT 070432Z 0705/0806 17013KT P6SM -SHRA BKN007 OVC040

FM070600 19013G23KT P6SM BKN015

FM071000 26018G28KT P6SM SCT050

FM080000 29008KT P6SM SCT250

TYS 070258Z 0703/0724 31006KT 6SM BR OVC020

TEMPO 0703/0707 3SM -SHRA BR

FM070700 27013KT 4SM BR OVC015

TEMPO 0707/0711 2SM -SHRA BR OVC008

FM071100 25018KT P6SM -SHRA OVC011

TEMPO 0711/0714 4SM -SHRASN OVC008

FM071400 25021KT P6SM OVC022 PROB30 0714/0719 4SM -SHRASN
OVC015

FM072000 26020KT P6SM OVC035

CHA TAF KCHA 062331Z 0700/0724 30008KT P6SM BKN015 OVC030

FM070500 27008KT 6SM BR VCSH OVC013 TEMPO 0707/0708 4SM

-SHRA

OVC008

FM070800 27010KT P6SM OVC010 TEMPO 0708/0709 4SM -SHRA

OVC007

FM070900 26010KT P6SM -SHRA OVC020 PROB30 0710/0714 4SM

-SHRA OVC010

FM072000 27010KT P6SM BKN040

MK1 WST 070355

CONVECTIVE SIGMET 4E

VALID UNTIL 0555Z

NC SC FL GA AND CSTL WTRS

FROM 40NE GSO-90SSE ECG-100WSW RSW-90W SRQ-40NE GSO

AREA SEV EMBD TS MOV FROM 24060KT. TOPS ABV FL450.

TORNADOES...HAIL TO 1.0 IN...WIND GUSTS TO 65KT POSS.

REF INTL SIGMET MIKE SERIES.

OUTLOOK VALID 070555-070955

AREA 1...FROM 130NE ACK-180SE ACK-140SE SBY-170ESE ECG-150ESE

CHS-200ENE TRV-70WSW EYW-90W SRQ-LYH-130NE ACK
REF WW 31 32 33.
WST ISSUANCES EXPD. REFER TO MOST RECENT ACUS01 KWNS FROM STORM
PREDICTION CENTER FOR SYNOPSIS AND METEOROLOGICAL DETAILS.

AREA 2...FROM AIR-EMI-30NE IRQ-BNA-AIR
WST ISSUANCES POSS. REFER TO MOST RECENT ACUS01 KWNS FROM STORM
PREDICTION CENTER FOR SYNOPSIS AND METEOROLOGICAL DETAILS.

MK2 WST 070355
CONVECTIVE SIGMET...NONE

OUTLOOK VALID 070555-070955
TS ARE NOT EXPD TO REQUIRE WST ISSUANCES.

MK3 WST 070355
CONVECTIVE SIGMET...NONE

OUTLOOK VALID 070555-070955
TS ARE NOT EXPD.

NOTAMS
CLT NO/

- KCLT/CLT - CHARLOTTE/DOUGLAS INTL
-----/
----- AIRPORT -----

-AP ABN U/S
30DEC19/1621 31MAR20/2359 KCLT A7105/19

----- RUNWAY -----

-RWY 23 5/5/5 100 PCT WET OBS AT 2002061144.
06FEB20/1144 07FEB20/1144 KCLT A0507/20

-RWY 18C 5/5/5 100 PCT WET OBS AT 2002061143.
06FEB20/1143 07FEB20/1143 KCLT A0506/20

-RWY 18L 5/5/5 100 PCT WET OBS AT 2002061143.
06FEB20/1143 07FEB20/1143 KCLT A0504/20

-RWY 18R 5/5/5 100 PCT WET OBS AT 2002061142.
06FEB20/1142 07FEB20/1142 KCLT A0505/20

-RWY 18L RWY END ID LGT U/S
04FEB20/1731 18FEB20/2000 KCLT A0482/20

-RWY 18C/36C SW 4000FT WIP CONST OBJECT FREE AREA
07JAN20/1658 30JUN20/2359 KCLT A0087/20

-RWY 18R PAPI U/S
02JAN20/1252 01JAN21/0459 KCLT A0009/20

-RWY 18L/36R EDGE MARKINGS W SIDE NOT STD
09DEC19/1502 30APR20/2359 KCLT A6830/19

-RWY 05/23 SFC MARKINGS NOT STD
09DEC19/1456 30APR20/2359 KCLT A6823/19

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

-RWY 23 ILS DME U/S
07FEB20/1400 07FEB20/2100 KCLT A0523/20

-ILS OR LOC RWY 18R, AMDT 2A...
ILS OR LOC RWY 23, AMDT 3E...
ILS OR LOC RWY 36L, AMDT 1A...
ILS OR LOC RWY 5, AMDT 38B...
ILS RWY 18R SA CAT I , AMDT 2A...
ILS RWY 18R CAT II - III , AMDT 2A...
ILS RWY 36L SA CAT I , AMDT 1A...
ILS RWY 36L CAT II - III , AMDT 1A...
DME REQUIRED EXCEPT FOR AIRCRAFT EQUIPPED WITH SUITABLE RNAV
SYSTEM WITH GPS,
BZM VOR OUT OF SERVICE.
24JAN20/2100 17JUN20/2059 KCLT A0332/20

-RNAV GPS Y RWY 36L, AMDT 1B...
ADD NOTE: VGSI VISUAL GLIDE SLOPE INDICATING SYSTEM AND
RNAV GLIDEPATH NOT COINCIDENT VGSI ANGLE 3.00/TCH 70 .
11MAR19/1443 11MAR21/1443 KCLT A1340/19

-ILS OR LOC RWY 36L, AMDT 1A...
ILS RWY 36L SA CAT 1 , AMDT 1A...
ILS RWY 36L CAT II-III , AMDT 1A...
ADD NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT VGSI ANGLE
3.00/TCH 70 .
11MAR19/1443 11MAR21/1443 KCLT A1339/19

----- TAXIWAY -----

-TWY E3 TWY DIRECTION SIGN FOR TWY E MISSING
2002061152-2002131100
06FEB20/1152 13FEB20/1100 KCLT 02/062

-TWY E LOCATION SIGN WEST SIDE BTN TWY E2 AND TWY E3 MISSING
2002061151-2002131100
06FEB20/1151 13FEB20/1100 KCLT 02/061

-TWY E TWY DIRECTION SIGN WEST SIDE FOR TWY E3 MISSING
2002061151-2002131100
06FEB20/1151 13FEB20/1100 KCLT 02/060

-TWY E3 LOCATION SIGN NORTH SIDE FOR RWY 18C/36C MISSING
2002061150-2002131100
06FEB20/1150 13FEB20/1100 KCLT 02/059

-TWY E HLDG PSN SIGN SOUTH SIDE BTN APCH END RWY 05 AND TWY A

MISSING 2002061150-2002131100 06FEB20/1150 13FEB20/1100	KCLT 02/058
-TWY ALL WET OBS AT 2002061144. 06FEB20/1144 07FEB20/1144	KCLT A0508/20
-TWY W3 CL MARKINGS FOR RWY 18R/36L NOT STD 2001291113-2003011100 29JAN20/1113 01MAR20/1100	KCLT 01/275
-TWY G EDGE MARKINGS BTN TWY A AND RWY 05/23 WEST SIDE FADED 09DEC19/1546 30APR20/2359	KCLT A6841/19
-TWY C8 SFC MARKINGS NOT STD 09DEC19/1521 30APR20/2359	KCLT A6840/19
-TWY C3 SFC MARKINGS NOT STD 1912091521-2004302359 09DEC19/1521 30APR20/2359	KCLT 12/057
-TWY D4 SFC MARKINGS NOT STD 09DEC19/1518 30APR20/2359	KCLT A6838/19
-TWY D7 SFC MARKINGS NOT STD 1912091517-2004302359 09DEC19/1517 30APR20/2359	KCLT 12/054
-TWY C9 SFC MARKINGS NOT STD 1912091517-2004302359 09DEC19/1517 30APR20/2359	KCLT 12/053
-TWY F HLDG PSN MARKINGS FOR ILS FOR RWY 05/23 NORTH SIDE NOT STD 09DEC19/1515 30APR20/2359	KCLT A6837/19
-TWY F HLDG PSN MARKINGS FOR RWY 05/23 NORTH SIDE NOT STD 09DEC19/1514 30APR20/2359	KCLT A6836/19
-TWY M SFC MARKINGS BTN RWY 18L/36R AND TWY D NOT STD 09DEC19/1511 30APR20/2359	KCLT A6835/19
-TWY D4 SFC MARKINGS NOT STD 09DEC19/1508 30APR20/2359	KCLT A6834/19
-TWY A CL MARKINGS BTN TWY G AND TWY R NOT MARKED 09DEC19/1507 30APR20/2359	KCLT A6833/19
-TWY D5 SFC MARKINGS NOT STD 09DEC19/1505 30APR20/2359	KCLT A6832/19
-TWY D3 SFC MARKINGS NOT STD 09DEC19/1504 30APR20/2359	KCLT A6831/19
-TWY A SFC MARKINGS BTN RWY 18L/36R AND TWY D NOT STD 09DEC19/1458 30APR20/2359	KCLT A6824/19
-TWY D6 SFC MARKINGS NOT STD 1912091453-2004302359 09DEC19/1453 30APR20/2359	KCLT 12/040
-TWY C5 SFC MARKINGS NOT STD 1912091451-2004302359 09DEC19/1451 30APR20/2359	KCLT 12/039

-TWY C6 SFC MARKINGS NOT STD 1912091448-2004302359
09DEC19/1448 30APR20/2359 KCLT 12/038

-TWY R CL MARKINGS BTN RWY 18L/36R AND TWY D NOT STD
1912091446-2004302359
09DEC19/1446 30APR20/2359 KCLT 12/037

-TWY C10 CL MARKINGS FOR RWY 18L/36R NOT STD
1912091444-2004302359
09DEC19/1444 30APR20/2359 KCLT 12/036

-TWY C EDGE MARKINGS BTN TWY M AND RWY 05/23 NOT STD
09DEC19/1442 30APR20/2359 KCLT A6822/19

-TWY M SFC PAINTED HLDG PSN SIGNS FOR RWY 18L/36R WEST SIDE
NOT STD
09DEC19/1438 30APR20/2359 KCLT A6815/19

-TWY M CL MARKINGS FOR RWY 18L/36R WEST SIDE NOT STD
1912091432-2004302359
09DEC19/1432 30APR20/2359 KCLT 12/027

-TWY R EDGE MARKINGS BTN RWY 18L/36R AND TWY D NOT STD
09DEC19/1430 30APR20/2359 KCLT A6814/19

-TWY S EDGE MARKINGS BTN RWY 18C/36C AND TWY E NOT STD
1912091427-2004302359
09DEC19/1427 30APR20/2359 KCLT 12/025

----- COMMUNICATION -----

-COM REMOTE COM OUTLET 255.4 U/S 2002051115-2002192000EST
05FEB20/1115 19FEB20/2000 KCLT 02/041

----- GENERAL -----

-AIRSPACE SEE FDC 0/0901 ZTL 91.141 VIP TFR
2002071700-2002072130
07FEB20/1700 07FEB20/2130 KCLT 02/032

-RAMP AIR NTL GUARD RAMP FREE ZONE ESTABLISHED AT THE SE
CORNER OF THE UNUSABLE PORTION OF THE APRON FOR HANGAR
CONSTRUCTION PROJECT
31JAN20/1214 31MAR20/2359 KCLT L0004/20

-RAMP AIR NTL GUARD RAMP PARKING SPOTS T1 AND T2 ARE CLOSED
31JAN20/1214 31MAR20/2359 KCLT L0003/20

-RAMP AIR NTL GUARD RAMP DUE TO APRON CONSTRUCTION, NO
TRANSIENT PPRS ACCEPTED
31JAN20/1214 31MAR20/2359 KCLT L0002/20

----- OBSTACLE -----

-OBST CRANE ASN UNKNOWN 351326N0805624W 0.76NM NNE CLT
UNKNOWN 80FT AGL FLAGGED AND LGTD 2002070300-2002071100
07FEB20/0300 07FEB20/1100 KCLT 02/051

-OBST TOWER LGT ASR 1224163 350705.30N0805443.70W 6.0NM SSE
CLT 836.9FT 258.9FT AGL U/S 2002061753-2003071753
06FEB20/1753 07MAR20/1753 KCLT 02/067

-OBST TOWER LGT ASR 1007715 351200.70N0804839.80W 6.8NM E
CLT 1042.0FT 407.2FT AGL U/S 2002050528-2003052359
05FEB20/0528 05MAR20/2359 KCLT 02/040

-OBST TOWER LGT ASR 1210438 350730.50N0810043.20W 6.2NM SSW
CLT 910.8FT 256.9FT AGL U/S 2002030604-2002180504
03FEB20/0604 18FEB20/0504 KCLT 02/013

-OBST TOWER LGT ASR 1062168 351820.70N0805112.00W 7.3NM NE
CLT 1053.1FT 230.0FT AGL U/S 2002011345-2005010500
01FEB20/1345 01MAY20/0500 KCLT 02/001

-OBST TOWER LGT ASR 1261081 350954.40N0805512.10W 3.2NM SSE
CLT 837.9FT 180.1FT AGL U/S 2001131450-2002132359
13JAN20/1450 13FEB20/2359 KCLT 01/128

-OBST TOWER LGT ASR 1002306 351605.10N0805407.30W 4.0NM NE
CLT 1018.0FT 247.0FT AGL U/S 1912200347-2003202359
20DEC19/0347 20MAR20/2359 KCLT 12/195

-OBST TOWER LGT ASR 1002305 351605.60N0805410.40W 4.0NM NE
CLT 1016.1FT 247.0FT AGL U/S 1912200346-2003202359
20DEC19/0346 20MAR20/2359 KCLT 12/194

-OBST TOWER LGT ASR 1002324 351606.00N0805413.60W 4.0NM NE
CLT 1004.9FT 250.0FT AGL U/S 1912200346-2003202359
20DEC19/0346 20MAR20/2359 KCLT 12/193

TYS NO/

- KTYS/TYS - MC GHEE TYSON
-----/
----- RUNWAY -----

-RWY 05L/23R CLSD
13NOV18/1425 30OCT20/2130 KTYS A1227/18

-RWY 23L 5/5/5 20 PCT 1/4IN WATER AND 80 PCT WET, 20 PCT
1/4IN WATER AND 80 PCT WET, 100 PCT WET OBS AT 2002061030.
06FEB20/1104 07FEB20/1104 KTYS A0125/20

-RWY 23R RVR U/S
11DEC19/1652 30NOV21/2000 KTYS A0984/19

-RWY 05L ALS U/S
11DEC19/1649 30NOV21/2000 KTYS A0981/19

-RWY 05L RVR U/S
11DEC19/1648 30NOV21/2000 KTYS A0980/19

-RWY 05L VASI U/S
11DEC19/1646 30NOV21/2000 KTYS A0979/19

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

-ILS OR LOC RWY 23R, AMDT 13...
 VOR RWY 23L, AMDT 5...
 VOR RWY 23R, AMDT 7...
 ILS RWY 23R SA CAT I , AMDT 13...
 ILS RWY 23R CAT II , AMDT 13...
 DME REQUIRED EXCEPT FOR ACFT EQUIPPED WITH SUITABLE RNAV
 SYSTEM WITH GPS,
 HCH VOR OUT OF SERVICE.
 05FEB20/2224 05MAR20/2224 KTYS A0121/20

-RWY 23R ALS U/S
 11DEC19/1658 30NOV21/2000 KTYS A0985/19

-ILS RWY 23R LOC/GP/MM/OM U/S
 11DEC19/1651 30NOV21/2000 KTYS A0983/19

-RWY 05L ILS LOC/GP/OM U/S
 11DEC19/1650 30NOV21/2000 KTYS A0982/19

-RNAV GPS RWY 05R, AMDT 2...
 MISSED APPROACH: CLIMB TO 1500 THEN CLIMB TO 4500 DIRECT VXV
 VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4500.
 03DEC19/2207 31DEC21/2207 KTYS A0941/19

-RNAV GPS RWY 5L, AMDT 2A...
 MISSED APPROACH: CLIMB TO 1500 THEN CLIMB TO 4500 DIRECT VXV
 VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4500.
 03DEC19/2207 31DEC21/2207 KTYS A0940/19

-RNAV GPS RWY 23R, AMDT 2A...
 RNAV GPS RWY 5L, AMDT 2A...
 VOR RWY 23R, AMDT 7...
 PROCEDURE NA.
 15JAN19/1746 15JAN21/1746 KTYS A0043/19

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

-KNOXVILLE SIX DEPARTURE...
 TAKEOFF MINIMUMS: RWY 5L, 5R: STANDARD WITH MINIMUM CLIMB OF
 290 FT PER NM TO 2000. DEPARTURE ROUTE DESCRIPTION: TAKEOFF
 RUNWAY 5L/5R: CLIMB ON HEADING 051 FOR VECTORS TO FILED
 ROUTE, THENCE... TAKEOFF RUNWAY 23L/R: CLIMB ON HEADING 231
 FOR VECTORS TO FILED ROUTE, THENCE... MAINTAIN 6000 OR
 ASSIGNED LOWER ALTITUDE . EXPECT CLEARANCE TO REQUESTED
 ALTITUDE/FLIGHT LEVEL TEN MINUTES AFTER DEPARTURE.
 ALL OTHER DATA REMAINS AS PUBLISHED.
 22MAY19/1901 22MAY21/1901 KTYS A0424/19

----- NAVIGATION -----

-VOR /HCH/ HINCH MOUNTAIN 117.6 MHZ U/S
 05FEB20/2155 11FEB20/2000 KTYS A0120/20

----- TAXIWAY -----

-TWY A BTN TWY R2 AND TWY R3 IRREGULAR SFC
 23JAN20/1941 30MAR20/2100 KTYS A0072/20

-TWY D EDGE LGT U/S
02OCT19/1928 31OCT20/2200 KTYS A0809/19

-TWY G3, B2, TWY B BTN TWY B2 AND TWY T NONMOVEMENT
AREA CTC BRAVO 2 FLAGGER ON 371.1 FOR ADVISORIES
11SEP19/1907 30JUN20/2000 KTYS A0730/19

-TWY G3, B2, TWY B BTN TWY B2 AND TWY T NONMOVEMENT AREA CTC
BRAVO 2 FLAGGER ON 371.1 FOR ADVISORIES
1909111907-2006302000EST
11SEP19/1907 30JUN20/2000 KTYS 09/014

-TWY G BTN AIR NTL GUARD UPPER RAMP AND CARGO RAMP CLSD
28AUG19/1130 30JUN20/2030 KTYS A0695/19

-TWY B BTN TWY Y AND 300FT NORTHEAST OF TWY Y CLSD
12AUG19/1000 30JUN20/2030 KTYS A0653/19

-TWY Y CLSD
12AUG19/1000 30JUN20/2030 KTYS A0650/19

----- OBSTACLE -----

-OBST TOWER LGT ASR 1202126 355906.50N0840957.90W 13.3NM NW
TYS 1444.9FT 258.9FT AGL U/S 2002052341-2003062341
05FEB20/2341 06MAR20/2341 KTYS 02/015

-OBST TOWER LGT ASR 1043650 354457.60N0840726.20W 7.3NM WSW
TYS 1236.2FT 261.2FT AGL U/S 2001251204-2002090500
25JAN20/1204 09FEB20/0500 KTYS 01/048

-OBST TOWER LGT ASR 1038423 354540.00N0835817.00W 3.1NM SSE
TYS 1131.9FT 210.0FT AGL U/S 2001112325-2002102325
11JAN20/2325 10FEB20/2325 KTYS 01/025

CHA NO/

- KCHA/CHA - LOVELL FIELD
-----/

----- RUNWAY -----

-RWY 02/20 SAFETY AREA NOT STD S END PERIMETER ROAD IN SAFETY
AREA
31DEC19/1935 31MAR20/1600 KCHA A1763/19

-RWY 15/33 SFC MARKINGS NOT STD 1912062010-2003202100
06DEC19/2010 20MAR20/2100 KCHA 12/062

----- TAXIWAY -----

-TWY B EDGE LGT BTN TWY D AND APCH END RWY 20 U/S
06FEB20/1920 07FEB20/2100 KCHA A0067/20

----- GENERAL -----

-OBST TOWER LGT ASN 2018-AS0-26334-OE 350252N0851507W 2.5NM
WNW CHA 1157FT 82FT AGL U/S 2001290348-2002132359
29JAN20/0348 13FEB20/2359 KCHA 01/040

----- OBSTACLE -----

-OBST TOWER LGT ASR 1049385 345522.00N0851901.00W 8.8NM SW
CHA 1336.0FT 214.9FT AGL U/S 2001300620-2004290500
30JAN20/0620 29APR20/0500 KCHA 01/043

-OBST TOWER LGT ASR 1043394 345529.30N0850852.40W 7.1NM SSE
CHA 1318.9FT 290.0FT AGL U/S 2001251136-2002090500
25JAN20/1136 09FEB20/0500 KCHA 01/036

-OBST TOWER LGT ASR 1220687 345605.60N0851946.20W 8.7NM SW
CHA 1213.9FT 315.0FT AGL U/S 2001241610-2004230500
24JAN20/1610 23APR20/0500 KCHA 01/035

-OBST TOWER LGT ASN UNKNOWN 341259.00N850537.03W 13.59 NNW
CHA 1159FT 396FT U/S 1912051728-2012312359
05DEC19/1728 31DEC20/2359 KCHA 12/052

PILOT REPORTS

UA /OV CLT230020/TM 0123/FL105/TP A321/TB MOD/RM MOD TURB
105-075

DURD

UA /OV VXV230003/TM 0430/FL029/TP CRJ9/SK SCT012 OVC029/WX 10SM

-RA/TA 07/WV 28006/TB NA/IC NA/RM BASES 029 SMOOTH RIDE ON
FINAL

UUA /OV GQ0285020/TM 0053/FL170/TP C56X/TB SEV CAT/RM DURD
150-110 ZTLFD

FIELD CONDITIONS

CLT 110416
/FC

* CLT FIELD REPORT *

* REPORT LAST UPDATED AT 1755 LOCAL TIME *

DATE 06FEB20 TIME 2344 LOCAL

EXISTING TAA SEE NOTAMS

RWY	STATUS	CONDITIONS	REMARKS
18C /36C	OPEN	WET	5/5/5 PRIMARY 18C
18L /36R	OPEN	WET	5/5/5 SECONDARY 18L
18R /36L	OPEN	WET	5/5/5
05 /23	OPEN	WET	TAXI ONLY
RAMP/TXWY	SURFACE	WET	

SPECIAL ADVISORIES

Y757 WILL USE THE L2 DOOR

PLS LEAVE TRANSPONDER ON UNTIL REACHING LEAD-IN LINE, AND
TURN ON ONCE TAXIING AWAY FROM GATE FOR RAMP CONTROL TRACKING.

APPROVED FUELING STATIONS PARKED WITHIN DESIGNATED AREA.

STATION OPENS 0415 CLOSES 2330

OPS RADIO FREQ

ATIS FREQ

MAINT FREQ

PHONE PATCH FREQ

OPS PHONE

ATIS PHONE

MAINT PHONE

PATCH PHONE NA

ACARS FREQ N GROUND PWR YES GROUND AIR YES

REMARKS

CALL 129.47 TO CONNECT DIRECTLY TO IOC
JET BRIDGE TO BE OPENED BY CLT PERSONNEL / DOOR CODE [REDACTED]
AA MTC FREQ 130.5
OC NOTE OPS RADIO FREQ 130.375
SECONDARY OPS FREQ 130.975 IF NO ANSWER AT 130.375
REGIONAL OPS FREQ 128.975
..DOOR CODE [REDACTED] NEEDED TO ENTER ALL GATES WITH A KEY PAD...
STATION OPENS 0415 CLOSES 2330
RAMP CONTROL FREQ W-129.8 / S-131.6 / E-129.22 / N-130.075
POWERBACK OPERATIONS NOT AUTHORIZED AT ANY GATE.
CONTACT CLT OPS FOR DEICING LOCATION 130.375
UPDATED 1755/06FEB M L SMITH
TYS 110416
/FC

* TYS FIELD REPORT *

* REPORT LAST UPDATED AT 1755 LOCAL TIME *

DATE 06FEB20 TIME 2344 LOCAL

EXISTING TAA SEE NOTAMS

RWY	STATUS	CONDITIONS	REMARKS
05L /23R	CLOSED	WET	CLSD TILL 31DEC20 CONSTRUCTION
05R /23L	OPEN	WET	
RAMP/TXWY	SURFACE	WET	

SPECIAL ADVISORIES

ALL AIRCRAFT THAT RON AT TYS ARE TO HAVE THEIR APU SHUT DOWN
PRIOR TO CREW DISEMBARKING THE AIRCRAFT UNLESS OTHERWISE
ADVISED BY MAINTENANCE
PLEASE SHUT OFF BEACON LIGHT AS SOON AS POSSIBLE. GROUND CREW
WILL NOT APPROACH A/C UNTIL LIGHT IS OFF.
DOORCODE [REDACTED]

OPS RADIO FREQ	129.75	OPS PHONE	[REDACTED]
ATIS FREQ	128.35	ATIS PHONE	N/A
MAINT FREQ	N/A	MAINT PHONE	[REDACTED]
PHONE PATCH FREQ	129.75	PATCH PHONE	N/A
ACARS FREQ	N/A	GROUND PWR	YES
		GROUND AIR	YES

REMARKS

RAMP DOOR CODE [REDACTED]
POWEROUT OPERATIONS AUTHORIZED BUT DISCOURAGED
OPERATIONAL GATES: 12/10/8. GRND BDG/DPLN ONLY AT STAND 8B
OPS FREQ 129.75
AIRBOTTLE-OK
LAV CART-OK
BELTLOADER-OK
PCA CART-OK
GPU-OK
DEICE TRUCK-OK
JETBRIDGE A/C-OK
UPDATED 1755/06FEB T MCKINNEY

CHA 110416
/FC

* CHA FIELD REPORT *

DATE 06FEB20 TIME 2344 LOCAL

EXISTING TAA SEE NOTAMS

RWY	STATUS	CONDITIONS	REMARKS
02 /20	OPEN	WET	
15 /33	OPEN	WET	
02 /20	OPEN	WET	
15 /33	OPEN	WET	
RAMP/TXWY	SURFACE	WET	

SPECIAL ADVISORIES

EAGLE PARKING AT GATE 4 CODE [REDACTED] GATE 1 CODE [REDACTED]

GPU SERVICE AT GATE 1

STATION OPENED 0345 06FEB2020 P MALLARD

AIRSTART INOP*****

AIRSTART INOP*****

OPS RADIO FREQ	130.95	OPS PHONE	[REDACTED]
ATIS FREQ	119.85	ATIS PHONE	[REDACTED]
MAINT FREQ	000.00	MAINT PHONE	[REDACTED]
PHONE PATCH FREQ	000.00	PATCH PHONE	[REDACTED]
ACARS FREQ	130.95	GROUND PWR	YES
		GROUND AIR	YES

REMARKS

*** POWEROUT OPERATIONS NOT AUTHORIZED AT ANY GATE ***

CHA OPERATES GATE 4 *DOOR COMBO [REDACTED] *GATE 1 DOOR CODE [REDACTED]

MON-FRI 0345-0100, SAT 0345-0100, SUN 0345-0100

AIR BOTTLE INOP CHA ACARS SYSTEM OUT

GPU OK

HEAT ONLY CART OK

DEICER OK

BELT LOADER OK

JETBRIDGE OK

LAV CART OK

A/C CART OK

UPDATED 2225/06FEB K C GIBSON

END DATA

DEICING CONDITIONS

CLT 110416

/DI

* CLT DEICING REPORT *

DATE 06FEB20 TIME 2344 LOCAL

* REPORT OVER 24 HOURS OLD -- CONTACT DISPATCH *

UPDATED 0805/04FEB S A SWANSTON

END DATA

FLIGHT: 5634 2020-02-07 CLT-TYS

CAPTAIN SIGNATURE - 02/07/2020 04:46:00

DISPATCH RELEASE ACCEPTANCE

I ACKNOWLEDGE RECEIPT OF THIS RELEASE AND CERTIFY THIS FLIGHT
CAN BE CONDUCTED SAFELY AND THAT I MEET THE REQUIREMENTS OF
14CFR PARTS 121.439 THRU 445 AND 117.5D. I HAVE REVIEWED AND
ENSURED COMPLIANCE WITH THE EFB STAR.

A black rectangular redaction box covers the signature of the Captain. Above the box, there are several handwritten strokes, likely part of the signature.

FIRST OFFICER SIGNATURE - 02/07/2020 04:41:27

DISPATCH RELEASE ACCEPTANCE

I AM IN COMPLIANCE WITH 117.5D.
I HAVE REVIEWED AND ENSURED COMPLIANCE WITH THE EFB STAR.

A black rectangular redaction box covers the signature of the First Officer. Above the box, there are several handwritten strokes, likely part of the signature.