Factual Report - Attachment 2 Aircraft Accident Package

AIR TRAFFIC CONTROL

ERA19FA188

ORIGINAL
AIRCRAFT ACCIDENT PACKAGE
19-001-ZDC
N709CH, P46T/G
June 7, 2019, 1731 UTC
Destroy: June 7, 2024

SECTION 1.
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N709CH

SECTION 2.

FAA Form 8020-6, Report of Aircraft Accident, and

FAA Form(s) 8020-6-1, Report of Aircraft Accident (Continuation Sheet)

FAA Form 8020-6. Report of Aircraft Accident

	DEPARTME	NT OF TRANS	SPORTATION		REPORT DA	ATE		REPORT	T NO.	
	FEDERAL AV	IATION ADM	INISTRATION		Ju	ly 22.	2019		19-001-Z	DC
	DEDOOT OF	ALDCDAL	T ACCID	ENIT	NAME OF F	REPORT	ING FACILITY			
	REPORT OF	AIRCRAI	-I ACCID	EIVI		1	Washington	ARTCC	(ZDC)	
1.	AIRCRAFT IDENTIFICATI	ON AND TYPE	2. DATE/TIM	E OF ACCIDE	NT (UTC)		ATION OF ACC	IDENT: CITY	, STATE (MAN	D)
	N709CH, P4	6T	June 7.	2019; 173	I UTC	Nash	ville, NC			
4.	NATURE OF ACCIDENT					LATIT	UDE/LONGITU	IDE (OPTL)		
	ircraft entered area	of moderate	e/severe pred	ipitation a	nd		N35 58 29	.1100 W	077 57 55.	6700
CI	ashed.					5. TYP	E OF FLIGHT			
								IFR Fligh	t Plan	
	NAME	PC	SITION		ADDRESS 'AND STATE)		UNINJURED	INJURED	FATALITY	UNKNOWN
3	Gregory Boll	Pilot		Naples, FL					X	
FLIGHT CREW				-						
F.		_								
		-				_				
ø.										
7.	PASSENGER DATA	NUMBER	_	NUMBER			NUMBER		NUMBER	
		ABOARD		UNINJURE	0		INJURED	()	FATALITIES	.3
8.	AIRCRAFT DAMAGE	AIRCRAF			9. PROPERT	TY DAM	AGF			
De	AIRCRAFT DAMAGE stroyed				Unknown					
10	O. OPERATING STATUS O	F NAVIGATION	IAL AIDS/LIGHT	S/COMMUNI	CATIONS					
	Normal									
	_ REPORT JUST PRIC	OR TO ACCIDE	uT							
T.				ated, wind ca	ılm, visibility	cight s	tatute miles, li	ght rain, ceil	ing six thousa	and five
A C	hundred overcast.	temperature tw	o seven, dew p	omt two two,	altimeter two	nine e	ight six			
H	ROCKY MOUNT hundred overcast.									
WEATHER DATA	FIRST REPORT SU									
									ee thousand s	ix hundred,
-	S cerning mine thouse	ind moken, ter	inperature to os	even. dess por	ini in oino, a	in incic	r tw onine eigi	it ioui		
										CHECK IF
	2	NAME		FACILITY	1		OPERATING I	POSITION		EYEWITNESS
	Jaclyn M Robertue	cci *(JP)		ZDC ART	CC TYI	R				
1	Stavros Gavrilellis	s(GA)		ZDC ART	CC TYI	Đ				
	1									
	Jaclyn M Robertuc Stavros Gavrilellis									
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1	5									
	12.									
	*OPERATING INI	TIALS A								
13	3. SIGNATURE OF FACIL	TY MANAGE								
	rl T. Adams		ا د							
F	AA Form 8020-6 (4-17) Supe	ersedes Previous	dition	σ					Ele	ctronic Version



DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

REPORT NO.

June 18, 2019

19-001-ZDC

NAME OF REPORTING FACILITY

Southwest Florida International ATCT (RSW)

14. CHRONOLOGICAL SUMMARY OF FLIGHT

June 07, 2019

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME UNLESS OTHERWISE SPECIFIED

1453 N709CH APPEARED TO DEPART APF RWY 23 AT 1453Z AND WAS ISSUED A CLIMB TO THE NORTH BY RSW DEPARTURE. N709CH INDICATED AN IMMEDIATE CLIMB IN RSW AIRSPACE TO 100. RSW TRANSFERED CONTROL OF THE AIRCRAFT TO ZMA SECTOR 24 AND THE AIRCRAFT WAS ISSUED AN ALTITUDE OUT OF RSW AIRSPACE AT APPROXIMATELY 1500Z AT THE RSW240010 RADIAL. ALL MANUEVERS AND ACTIONS IN RSW AIRSPACE APPEARED TO BE ROUTINE.

No More Follows

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

June 18, 2019

REPORT NO. 19-001-ZDC

NAME OF REPORTING FACILITY

Miami ARTCC (ZMA)

14. CHRONOLOGICAL SUMMARY OF FLIGHT

June 07, 2019

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME UNLESS OTHERWISE SPECIFIED

- 1458 N709CH checked on frequency with the Miami ARTCC Fort Myers Low sector (R24) leaving 7700 feet for 10000 feet.
- R24 acknowledged N709CH and instructed the pilot to climb and maintain flight level 220. N709CH acknowledged the transmission and stated climbing to flight level 220. R24 advised they would shortly have a full route clearance for N709CH. N709CH acknowledged the transmission and advised they were standing by. N709CH called R24 and requested to deviate 10 degrees left for weather. R24 asked who wanted 10 left. N709CH requested 10 degrees left.
- 1500 R24 cleared N709CH to deviate left and when able proceed direct ROGAN.
 N709CH acknowledged the clearance. R24 advised N704CH he would have the clearance in a minute. N709CH requested to deviate right of course 30 degrees for weather.
- 1501 R24 approved the deviation as requested. R24 advised N709CH they were ready to read the reroute. N709CH advised they were ready for the clearance. R24 cleared N709CH to deviate right then direct ROGAN direct JINOS direct ETORE direct KESN.
- 1502 N709CH read back the clearance correctly. R24 advised N709CH their read back was correct.
- 1504 R24 read Convective SIGMET 49E and 50E on the frequency.
- 1507 R24 cleared N709CH to climb to flight level 230. N709CH acknowledged the clearance.
- 1508 R24 asked N709CH if they were proceeding direct ROGAN at this time.
 N709CH confirmed they were direct ROGAN. R24 acknowledged the report.
- 1513 R24 instructed N709CH to contact Miami Center on 125.07. N709CH acknowledged the instructions. N709CH checked in with the Miami ARTCC BOYLE sector (R65) leaving flight level 210 for flight level 230. R65 acknowledged the transmission and advised N709CH could expect higher shortly. R65 called Miami Center Fort Myers High sector (R25) for a point out on N709CH to climb higher.
- 1514 R25 approved the point out subject other traffic.
- 1523 R65 cleared N709CH direct VIYAP then direct destination. N709CH read

FAA Form 8020-6-1

19-001-ZDC

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

June 18, 2019

REPORT NO.

Miami ARTCC (ZMA)

NAME OF REPORTING FACILITY

19-001-ZDC

14 CHRONOLOGICAL SUMMARY OF FLIGHT back the clearance.

R65 cleared N709CH to climb and maintain flight level 270. N709CH read back the clearance.

1533 R65 instructed N709CH to contact Jacksonville Center on 127.47. N709CH acknowledged the clearance.

No More Follows



DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

REPORT NO

June 18, 2019

19-001-ZDC

NAME OF REPORTING FACILITY

Jacksonville ARTCC (ZJX)

14. CHRONOLOGICAL SUMMARY OF FLIGHT

June 07, 2019

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME UNLESS OTHERWISE SPECIFIED

- 1534 N709CH made initial contact with the Jacksonville ARTCC (ZJX) Green Cove sector (R75) level at flight level two seven zero and R75 acknowledged.
- 1556 R75 transmitted Convective Sigmets 49, 50 and 51 eastern were available until 1655 zulu and Convective Sigmets 54,55,56 and 58 eastern were available until 1755 zulu.
- 1604 R75 transferred communication with N709CH to ZJX frequency 126.12 mhz and N709CH acknowledged.
- 1605 N709CH made initial contact with the ZJX States sector (R68) level at flight level two seven zero and R68 acknowledged.
- 1620 R68 advised N709CH an area of moderate, heavy to extreme precipitation was at 1 o'clock, four five miles and four zero miles in diameter. N709CH acknowledged.
- 1631 R68 transferred communication with N709CH to ZJX frequency 124.07 mhz and N709CH acknowledged. N709CH made initial contact with the ZJX Summer sector (R47) level at flight level two seven zero and R47 acknowledged.
- 1659 R47 transmitted for N709CH to contact Washington ARTCC (ZDC) but the frequency was unreadable. N709CH questioned the frequency and R47 requested he stand by.
- 1700 R47 transferred communication with N709CH to ZDC on frequency 132.22 mhz and N709CH acknowledged.

No More Follows

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

July 22, 2019

19-001-ZDC

REPORT NO

NAME OF REPORTING FACILITY

Washington ARTCC (ZDC)

14. CHRONOLOGICAL SUMMARY OF FLIGHT June 07, 2019

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME UNLESS OTHERWISE SPECIFIED

- 1654 External Handoff initiated to Washington ARTCC Sector 38 (R-38).
- 1657 R-38 read Center Weather Advisory (CWA) 1630 to all aircraft on frequency.
- 1701 N709CH checked in with Washington Center at FL270. R-38 responded and advised to expect rerouting momentarily.
- 1703 R-38 asked N709CH if they were ready for rerouting. N709CH replied in the affirmative. R-38 cleared N709CH to Richmond (Romeo India Charlie), Victor 16, Patuxent (Papa Xray Tango), Victor 93 to GRACO, then direct.
- 1704 N709CH responded to R-38 with their readback. R-38 advised readback correct.
- 1717 N709CH advised R-38 of upcoming moderate weather on their radar and asked do you see that? R-38 responded that some had gotten ice, and some people have been going through it, but you could deviate right of course, and when able, proceed direct RIC. N709CH responded with deviate right of course and when able, direct RIC.
- 1720 R-38 informed N709CH that they could go back or continue right, when able, direct RIC, whatever was best for you. N709CH replied that they would prefer to continue (unintelligible), was that an okay plan? R-38 replied, "I don't know, and I don't work that sector. They will have something else for you. N709CH again requested that they would prefer to go out over towards the coast to go around all of that.
- 1721 R-38 coordinated to reroute N709CH and advised if I gave you like Franklin, HCM, TAPPA into Patuxent that way, would that work for you? N709CH advised that's okay, I guess it could. R-38 instructed N709CH to proceed to TYI, FKN to HCM for turn, ah, towards the coast and advised of the upcoming restricted area. N709CH confirmed that'll do alright.
- 1724 N709CH requested to go to FKN. R-38 cleared N709CH direct FKN, direct HCM, then direct TAPPA, and then direct PXT, then rest of route unchanged.
- 1729 N709CH asked if R-38 showed tops in the immediate area that are up to three (FL300). R-38 responded I don't have any tops reports right now,

FAA Form 8020-6-1

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

July 22, 2019

REPORT NO. 19-001-ZDC

NAME OF REPORTING FACILITY

Washington ARTCC (ZDC)

14. CHRONOLOGICAL SUMMARY OF FLIGHT

but I did have some weather deviations. If you need to go further right just let me know. N709CH stated "I'm gonna go about 30 degrees right." R-38 approved, and when able, direct to, ah, FKN. N709CH provided a valid readback.

- 1730 R-38 controller attempted to contact N709CH...
- 1731 R-38 controller attempted to contact N709CH multiple times...
- 1732 R-38 controller attempted to contact N709CH several times...
- 1738 R-38 attempted to contact N709CH again.
- 1739 R-38 controller again attempted to contact N709CH.
- 1747 R-38 controller attempted to contact N709CH several times...

No More Follows

SECTION 3.
Review of Services Memoranda



Date: June 20, 2019

To: Washington Air Route Traffic Control Center

Aircraft Accident File 19-001-ZDC

Joseph E. Molsen, Manager,

From: Southwest Florida International Airport Traffic Control Tower, RSW ATCT

Subject: **INFORMATION**: Review Of Services Memo

Aircraft Accident, N709CH Nashville, NC, June 07, 2019

RSW ATCT conducted a review of services concerning N709CH and was determined to have routine services. As a supporting facility with routine services I certify the following data has been retained in accordance with FAA Order 8020.16. Additionally, I certify that the following originals/digital copies are on file in this office.

FAA Form 7230-10 FAA Form 7230-4 FAA Form 8020-6-1 STARS Radar Data



Date: June 11, 2019

From:

To: Washington Air Route Traffic Control Center

Aircraft Accident File 19-001-ZDC

CLINTON E Digitally signed by CLINTON E WEEKES

Clinton Weekes, Acting Manager, WEEKES

Date: 2019.06.11
09:26:20 -04'00'
Miami Air Route Traffic Control Center, ZMA ARTCC

Subject: **INFORMATION:** Review Of Services Memo

Aircraft Accident, N709CH Nashville, NC, June 07, 2019

ZMA ARTCC conducted a review of services concerning N709CH and was determined to have routine services. As a supporting facility with routine services I certify the following data has been retained in accordance with FAA Order 8020.16. Additionally, I certify that the following originals/digital copies are on file in this office.

Certified Original Copy(ies) of Voice Recording(s)
Certified Working Copy(ies) of Voice Recording(s)
ERAM Local Adaptation File
FAA Form 8020-6-1
Flight Progress Strip(s)
National Track Analysis Report
Weather Data
ERAM SAR Files
ERAM Radar Files
FALCON Replay



Date:

June 11, 2019

To:

Washington Air Route Traffic Control Center

Aircraft Accident File 19-001-ZDC

Robert A. Brown , Manager,

From:

Jacksonville Air Route Traffic Control Center, ZJX ARTCC

Subject: INFORMATION: Review Of Services Memo

Aircraft Accident, N709CH Nashville, NC, June 07, 2019

ZJX ARTCC conducted a review of services concerning N709CH and was determined to have routine services. As a supporting facility with routine services I certify the following data has been retained in accordance with FAA Order 8020.16. Additionally, I certify that the following originals/digital copies are on file in this office.

Certified Original Copy(ies) of Voice Recording(s)
Certified Working Copy(ies) of Voice Recording(s)
ERAM Local Adaptation File
FAA Form 8020-6-1
ERAM SAR Files
ERAM Radar Files
Email Notification



Date: June 12, 2019

Washington Air Route Traffic Control Center To:

Aircraft Accident File 19-001-ZDC

Carl T. Adams, Manager,

From: Washington Air Route Traffic Control Center, ZDC ARTCC

Subject: INFORMATION: Review Of Services Memo

Aircraft Accident, N709CH Nashville, NC, June 07, 2019

ZDC ARTCC conducted a review of services concerning N709CH and was determined to have pertinent services. As the holding facility with pertinent services I certify the following data has been retained in accordance with FAA Order 8020.16. Additionally, I certify that the following originals/digital copies are on file in this office.

Certified Original Copy(ies) of Voice Recording(s) Certified Working Copy(ies) of Voice Recording(s) ERAM Local Adaptation File FAA Form 7230-10 FAA Form 7230-4 FAA Form 8020-26 FAA Form 8020-6

FAA Form 8020-6-1 FAA Form 8020-9

Facility Layout Chart(s) Flight Progress Strip(s)

National Track Analysis Report

Personnel Log(s)

SATORI

Weather Data ERAM SAR Files ERAM Radar Files ALNOT

SECTION 4.

FAA Form(s) 7230-4, Daily Record of Facility Operation

ZDC 50/5

DAILY RECORD OF FACILITY OPERATION

PAGE NO

CHECKED BY

Page 1 of 2 DATE

Jun 7, 2019

LOCATION IDENTIFICATION TYPE FACILITY OPERATING POSITION AIR TRAFFIC MANAGER Leesburg, VA ZDC ARTCC OMIC Carl T. Adams

0400 J. McCleve on duty

UTC TIME

CFPL: Area 2 attempted to open R16. When the CS was entered R16 opened at R27 position. VSCS remained assigned to appropriate sectors. FLM had to temp mode R16 freq to R27 VSCS. SOC had to do a logical to physical back to right configuration. -- MC

REMARKS

ILM Tower/App scheduled power outage until 1100z. 135.75 unavailable for 0401 approach control services. -- MC

0517 Certifications:

> EBUS: 0351 CFAD/CRAD: 0421 ADSS: 0455 CPDLC: 0509

VSCS: Postponed until the AM shift

Traffic Count (6/06/19): 7,245 -- MC

0518 Watch Check List Complete -- MC

0842 ILM Tower/App back online. 135.75 back in service and normal. -- MC

0957 VSCS Certified: 0957 -- MC

1000 S Wolfgang on duty.

Sign In Sign Out Verified. -- WN

1000 L. Glass on duty -- LG

1000 S Surline on duty. -- VA

D. Dewitt on watch desk. -- WD 1030

1222 Sign In Sign Out Verified

Watch Check List Complete -- WN

ZDC-M-2019/06/07-0002 -- AAL2666 -- WD 1423

1731 possible aircraft accident with N709CH. -- WD 1745

S Wolfgang off duty. -- WN 1800

J Turgeon on duty -- YU 1830

I CERTIFY that entries above are correct. that all scheduled operations have been accomplished except as noted, and that all abnormal occurrences and conditions have SIGNATURES(S) OF WATCH SUPERVISOR(S)

FAA Form 7230-4

DAILY RECORD OF FACILITY OPERATION

Page 2 of 2

ATF

DATE

Jun 7, 2019

LOCATION

IDENTIFICATION

TYPE FACILITY

ARTCC

OPERATING POSITION

AIR TRAFFIC MANAGER
Carl T. Adams

UTC TIME

REMARKS

- 1830 M. Winter on duty -- IR
- 1835 S. Hurtt on duty -- SH
- 1920 WCLC -- IR

Leesburg, VA

- 1947 R SPECK ON. -- RO
- 1957 VIP MOVEMENT: AF1 TRANSITIONED ZDC AREA 4 FROM 2015Z-2039Z WITHOUT INCIDENT. -- RO
- 0230 S. Hurtt off duty, combined with FLMIC -- SH
- 0230 S Wolfgang on duty. -- WN
- 0359 COB -- WN

I CERTIFY that entries above are correct, that all scheduled operations have been accomplished except as noted, and that all abnormal occurrences and conditions have been recorded.

SIGNATURES(S) OF WATCH SUPERVISOR(S)

FAA Form 7230-4

SECTION 5.
Personnel Log(s)

PERSONNEL LO	G	REC	SION	FAC	ILITY		AREA ID			DAT	E	
. LINGOINIEL LO		Al	ΞA	ZI	DC	2 Me	etro Sout	h	MONTH: J	JN DAY:	07 YEA	R: 201
NAME	CODE	TIME	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FACI NON	FOR: ALL LITY, TRN POSITIO	IG, TDY A	ND
DORN, ROBERT (NJ) 06:00 - 13:00	R	06:00	13:00	07+00			00+46	03+26				
FAZEKAS, JAMES (ZF) 06:00 - 14:00	R	06:00	14:00	08+00			00+31	03+54				
PHANEUF, RAINE	9	06:00	07:00									
(RR) 07:00 - 15:00	R	07:00	15:00	09+00			01+05	04+55				
	9	06:20	06:30							V/240/00		
ROBERTUCCI, JACLYN (JP)	R	06:30	14:30	13+40			06+36	03+35				
06:30 - 14:30	97	14:30	20:00	100000000000000000000000000000000000000				000000000000000000000000000000000000000				
AVRILELLIS, STAVROS	R	06:23	14:23									
(GA) 06:23 - 14:23	97	14:23	20:00	13+37			06+41	05+29				
ELLER, HENRY (HANK)	R	06:30	12:30	06+00	02+30	Leave	00+00	00+00				
06:30 - 15:00 O'GRADY, SEAN (SW)	R	06:30	14:30	08+00			00+00	00+00				
06:30 - 14:30 LESTER, STEVEN (SE)	R	06.33	14.22	00.00			00.36	04.47				
06:33 - 14:33 LAING, WILLIAM	R	06:33	14:33	08+00			00+36	04+47				
(WM) 06:45 - 14:45	R	06:45	14:45	08+00			01+25	04+36				
DEL RIO, ALEX (AD) 06:53 - 14:53	R	06:53	14:53	08+00			01+34	04+28				
RUTKOSKE, JACOB (RU) 06:53 - 14:53	R	06:53	14:53	08+00			01+18	04+02				
JUSTICE, JEREMY	R	07:00	15:00									
(XJ) 07:00 - 15:00	97	15:00	20:00	13+00			06+11	04+01				
CABRAL, RANDY (JR)	R		15:30	08+00			01+11	03+30				
07:30 - 15:30												
FORT, MARCEL (MJ) 06:00 - 14:00	R	07:30	12:00	04+30	01+30	Leave	00+27	02+10				
LAROSA, ANTHONY (TL)	R	07:30	15:30	08+00			07+30	00+00				
07:30 - 15:30 SCHMIDT, JOHN	R	07:41	15:41									
(AN) 07:41 - 15:41	97	15:41	16:41	09+00			00+31	05+13				
STILLWELL, RACHEL (RC)	R	07:49	15:49	08+00			00+51	03+44				
07:49 - 15:49 JACKSON, REXFORD	R	08:30	16:30									
(RX)	046	17:00	23:00	14+00			00+00	00+00				
08:30 - 16:30	NAM		CODI	E TIME ON	TIME OFF	INTLS	NAM	=	CODE	TIME	TIME OFF	INTL
SUPERVISORY												
CERTIFICATE												

Official Version

PERSONNEL LO	G	REC	SION	FAC	ILITY		AREA ID			DATE		
FERSONNEL LO	G	A	EA	ZI	DC	2 Me	etro Sout	h	MONTH: J	UN DAY: 0	7 YEA	R: 20
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	FACI	FOR: ALL A ILITY, TRNG I POSITION.	S. TDY A	ND
HURLEY, PATRICK	9	10:56	12:56	1000								
(PH) 12:56 - 20:56	R	12:56	20:56	10+00			01+10	04+58				
FAURIA, TODD	9	12:30	13:30									
(EF) 13:30 - 21:30	R	13:30	21:30	09+00			00+45	04+58				
WETHERELL, DAVID (WL) 12:30 - 22:30	R	12:30	22:30	10+00			00+54	04+43				
WHITE, DYANA (ZW) 12:30 - 20:30	R	12:30	18:30	06+00	02+00	Leave	00+27	03+20				
EWAKA, DEREK (EW) 13:00 - 21:00	R	13:00	21:00	08+00			00+51	03+19				
FOLLMER, SANDRA (SA) 13:00 - 21:00	R	13:00	19:00	06+00	02+00	Leave	00+31	03+33				pr. pr. 5/1 / 1 mm
MILLER, MICHAEL (AO) 13:30 - 21:30	R	13:30	21:30	08+00			00+36	04+39				
SCHARPF, GARY (GP) 13:58 - 21:58	R	13:58	21:58	08+00			00+18	04+27				
PULLEY, CALEB (FL) 14:30 - 22:30	R	14:30	22:30	08+00			00+06	04+05				
ROVES, CHRISTOPHER (BK) 14:36 - 23:36	R	14:36	23:36	09+00			00+49	03+54				
CURTIS, JOSHUA (HP) 14:49 - 22:49	R	14:49	22:49	08+00			00+38	04+43				
HEATH, JAMES (EH) 14:52 - 23:52	R	14:52	23:52	09+00			00+47	03+21				
ORTA, NATHAN (NE) 14:55 - 22:55	R	14:55	22:55	08+00			00+36	04+15				
RITTER, KATELYN	9	15:30	16:00									
(KT) 16:00 - 00:00	R	16:00	00:00	08+30			00+45	04+01				
DORN, ROBERT (NJ) 22:15 - 06:15	R	22:15	06:15	08+00			00+15	03+55				
LAING, WILLIAM (WM)	R	22:45	06:45	08+00			00+12	02+55				
22:45 - 06:45 SMITH, ANDREW (ZH)					08+00	Leave	00+00	00+00				
07:00 - 15:00 RUCKER, CLARENCE												
(UB)					10+00	Leave	00+00	00+00				
07:00 - 17:00	NAM	F	COD	E TIME	TIME	INTLS	NAMI	E	CODE	TIME	TIME	INT
	A ACAIV		-	ON	OFF		. 11.3(41)			ON	OFF	
SUPERVISORY CERTIFICATE												
-			_									

Official Version

PERSONNEL LO	G		SION		ILITY		AREA ID			DAT		
T ENGOINTEE EO		Al	EA	ZI	OC .	2 Me	etro Sout	h	MONTH: JU	JN DAY:	07 YEA	R: 201
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FACI NON	FOR: ALL LITY, TRN POSITION	G, TDY AI	ND
HUNG, ALLAN (HH) 14:00 - 22:00					08+00	Leave	00+00	00+00				
BISHOP, SPENCER (SB) 15:00 - 23:00					08+00	Leave	00+00	00+00				
BERRY, PETER (BY) RDO	51	06:00	14:00	10+00			00+46	05+09				
VALVERI, JOHN (VP) RDO		07:30	15:30	08+00			00+35	04+15				
BRADY, JOSHUA (NG) RDO		14:50	22:50	08+00			01+12	03+53				
CRAVEN, GREGORY (TQ) RDO		15:30	23:30	08+00			00+49	03+01				
BEAUDWAY, AARON (HD) NAS												
BEETON, CORI (QT) NAS												
BAE, JAE (YK) RDO												
BRADBURY, RONALD (ZA) RDO												
ORNELIUSSEN, DONNA (NF) RDO												
CURRAN, RACHEL (RM) RDO												
DAVIS, SCOTT (RD) RDO												
GUIN, JUAN (DG) RDO												
GUNN, SETH												
RDO KORBINI, ASHELL (ZT)												
RDO LINDWARM, JEFFREY (LF)												
RDO LUCIANO, RAMON (DN)												4-7-1-1-1
RDO	NAM	E	COD	E TIME ON	TIME	INTLS	NAMI	E	CODE	TIME	TIME OFF	INTL
SUPERVISORY CERTIFICATE										l l		

Official Version

PERSONNEL	1.00	REC	SION	FACI	LITY		AREA ID			DA	TE	
PERSONNEL	LUG	Al	EΑ	ZI	OC .	2	Metro Sout	h	MONTH: J	UN DAY:	07 YEA	AR: 201
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	FAC	FOR: ALL ILITY, TRI I POSITIO	NG. TDY A	ND
PINNERI, DANIELL (PU) RDO	E											
QUINONES, ANTHON (AQ) RDO	Y											
ZIRKIND, MALKITZEI (ZD) RDO	DEK											
	NAM	E	CODE	TIME	TIME	INTLS	NAME	Ē	CODE	TIME	TIME	INTLS
SUPERVISORY CERTIFICATE												
	TH (Signature	E SIGNATU	JRES ABOV s in charge a	E CERTIFY are noted or	THAT THE	ABOVE ENT 7230-4, Daily	RIES ARE COR	RECT y Operation)				1

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SECTION 6.

FAA Form(s) 7230-10, Position Log, or automated equivalent

19-001-ZDC N709CH

		POSITION	N LOG			
(1) FACILITY ID	(2) POSITION IDENT	TFIER (3)	POS	(4) DATE		
ZDC	TYI		R	06/07/2019		
TIME ON	(6) INITIALS	TIME OFF	CODE	WHERE COMBINE	(10) POSITION TYPE	
0400		0402		RDU	R	
0400		0402		RDU	R	
0400		0402		RDU	R	
0403		1007		BKT	R	
0403		1007		BKT	R	
1008		1145		RDU	R	
1008		1145		RDU	R	
1008		1145		RDU	R	
1146	XJ	1234	C			
1235	JP	1333	C			
1334	XJ	1455	С			
1456	VP	1602	С			
1603	PH	1621	С			
1622	JP	1734	С			

 C - ATCS/ATA
 M - Trainee/Developmental Monitoring

 S - Supervisor/Staff Spec
 R - Trainee/Developmental Certification/

 T - Trainee/Developmental
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		POSITIO	N LOG			
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	3) POS	06/07/2019		
ZDC	TYI		R			
TIME ON	(6) INITIALS	TIME OFF	(B) CODE	WHERE COMBINI	(10) POSITION TYPE	
1735	PH	1757	C	(a) FOSTITON IDENTIFIER	TYPE	
1758	BY	1904	C			
1905	EH	1941	C			
1942	KT	1959	С			
2000	KT	2028	С			
2029	EF	2121	C			
2122	KT	2217	С			
2218	EH	2316	С			
2317	HP	0005	С			
0006	EH	0058	С			
0059	НР	0150	С			
0151		0332		RDU	R	
0151		0332		RDU	R	
0151		0332		RDU	R	

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		POSIT	ION L	.OG			
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	(3) POS		(4) DATE		
ZDC	TYI		R		06/07/2019		
TIME ON	(6) INITIALS	TIME OF	F	(8) CODE	WHERE COMBINE	(10) POSITIO	
0333		035	4		BKT	R	
0333		035	4		BKT	R	
0355		035	9		LIB	R	
0355		035	9		LIB	R	
0355		035	9		LIB	R	
						-	

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	P	OSITION	N LOG		
(1) FACILITY ID	(2) POSITION IDENTIFIE	ER (3)	POS	(4) DATE	
ZDC	TYI-D	F	AS	06/07/20	19
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION
0400		1040		TYI	R
0400		1040		TYI	R
1041		1146		RDU-D	RA
1147		1700		TYI	R
1147		1700		TYI	R
1701	GA	1734	С		
1735		2124		TYI	R
1735		2124		TYI	R
2125	AO	2219	С		
2220		2350		TYI	R
2220		2350		TYI	R
2351	AO	0047	C		
0048		0359		TYI	R
0048		0359		TYI	R

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		POSITIO	N LOG			
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	(3) POS	(4) DATE		
ZDC	TYI-I		Н	06/07/2019		
(5) TIME ON	(6)	(7)	(8)	WHERE COMBIN	1	
TIME ON	(6) INITIALS	TIME OFF	CODE	(9) POSITION IDENTIFIER	(10) POSITIO TYPE	
0400		0359		TYI	R	
0400		0359		TYI	R	
				alla viti alla si sa		

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		POSIT	ION L	OG	-		
(1) FACILITY ID	(2) POSITION IDEN	ITIFIER	(3) POS		(4) DATE		
ZDC	A2		A		06/07/2019		
TIME ON	(6) INITIALS	TIME OFF		(8) ODE	WHERE COMBINE	(10) POSITION	
0400		0359	9		CLOSED	TTPE	
0400		0359	9		BKT	R	
0400		0359	9		FM-2	0	
0400		0359	9		BKT	R	
0400		0359	Э		FM-2	0	
0400		0359	9		FM-2	0	
	-						
DDF:							

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POSITION LOG						
(1) FACILITY ID			(3) POS	(4) DATE 06/07/2019		
ZDC			R			
TIME ON	(6) INITIALS	(7) TIME OFF	(8) CODE	WHERE COMBIN		
0400	HD	0408	C	(9) POSITION IDENTIFIER	(10) POSITION TYPE	
0409	QT	0424	C			
0425	HD	0728	С			
0729	QT	1000	C			
1001	ZF	1055	C			
1056	WM	1103	С			
1104	AD	1130	Т			
1104	WM	1130	С			
1131	JR	1134	C			
1135	VP	1221	С			
1222	AD	1330	Т			
1222	WM	1330	С			
1331	AN	1422	С			
1423	AD	1557	Т			

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POSITION LOG						
(1) FACILITY ID	(2) POSITION IDEN	(2) POSITION IDENTIFIER (3)		(4) DATE		
ZDC	BKT		R	06/07/2019		
TIME ON	(6) INITIALS	TIME OFF	CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE	
1423	WM	1557	С		TYPE	
1558	NJ	1635	С			
1636	WL	1647	С			
1648	AD	1804	Т			
1648	MM	1804	C			
1805	GP	1917	C			
1918	NE	2034	C			
2035	EH	2126	С			
2127	ZW	2226	С			
2227	BK	2323	С			
2324	WL	0031	С			
0032	NG	0107	С			
0108	NE	0208	C			
0209	BK	0225	C			

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POSITION LOG						
(1) FACILITY ID	(2) POSITION IDEN	POSITION IDENTIFIER (3) POS		(4) DATE		
ZDC	BKT) X	R	06/07/2019		
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINI	_	
0226	KT	0251	C	(a) FOSTHON IDENTIFIER	(10) POSITION TYPE	
0252	WM	0354	C			
0355		0359		LIB	R	
0355		0359		LIB	R	
0355		0359		LIB	R	

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POSITION LOG							
(1) FACILITY ID	(2) POSITION IDENTIFIER		3) POS	(4) DATE			
ZDC	BKT-D		RA	06/07/2019			
	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINE	(10) POSITION TYPE		
0400		1028		BKT	R		
0400		0359		BKT	R		
0400		0359		BKT	R		
0400		1028		BKT	R		
1029	GA	1129	С				
1130		1146		BKT	R		
1130		1146		BKT	R		
1147	RR	1208	C				
1147	RU	1208	Т				
1209		1225		BKT	R		
1209		1225		BKT	R		
1226	ZF	1255	С				
1256		1344		BKT	R		
1256		1344		BKT	R		

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POSITION LOG									
(1) FACILITY ID	(2) POSITION IDENTIFIER (3) POS			(4) DATE					
ZDC	BKT-D) F	RA	06/07/20	19				
(5) TIME ON	(6) INITIALS	(7) TIME OFF	(8) CODE	WHERE COMBINE					
				(9) POSITION IDENTIFIER	(10) POSITIO TYPE				
1345	RC	1521	Т						
1345	RR	1521	C						
1522		1625		BKT	R				
1522		1625		BKT	R				
1626	RC	1805	Т						
1626	RR	1805	C						
1806		1944		BKT	R				
1806		1944		BKT	R				
1945	AO	2034	С						
2035		0240		BKT	R				
2035		0240		BKT	R				
0241		0359		BKT	R				
0241		0359		BKT	R				

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POSITION LOG										
(1) FACILITY ID	(2) POSITION IDENTIFIER (3) POS			(4) DATE						
ZDC	BKT-L		Н	06/07/20	19					
TIME ON	(6) INITIALS	(7) TIME OFF	(6) CODE	WHERE COMBI						
0.1.0.0				(9) POSITION IDENTIFIER	(10) POSITIO TYPE					
0400		0359		BKT	R					
0400		0359		BKT	R					

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		POSITIO	N LOG	·	
(1) FACILITY ID	(2) POSITION IDENT	TIFIER	(3) POS	(4) DATE	
ZDC	DOM		R	06/07/20	19
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINI	(10) POSITION TYPE
0400		1208		BKT	R
0400		1208		BKT	R
1209	SE	1310	С		
1311	VP	1356	С		
1357	SE	1504	С		
1505	PH	1601	С		
1602	SE	1726	С		
1727	ZW	1838	C		
1839	JR	1854	С		
1855	HP	2006	C		
2007	GP	2038	C		
2039	TQ	2127	C		
2128	NE	2228	С		
2229	TQ	2320	С		

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		POSITIO	N LOG		
(1) FACILITY ID	(2) POSITION IDENT	(2) POSITION IDENTIFIER (3) POS			
ZDC	DOM		R	06/07/2019	
(5) TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBIN	(10) POSITIO
2321	NE	0016	С		1172
0017	TQ	0045	C		
0046		0354		BKT	R
0046		0354		BKT	R
0355		0359		LIB	R
0355		0359		LIB	R
0355		0359		LIB	R

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	POSITION LOG									
(1) FACILITY ID	(2) POSITION IDENTIFIER (3) POS			(4) DATE						
ZDC	DOM-I		RA	06/07/20	19					
TIME ON	INITIALS	TIME OFF	CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE					
0400		1028		DOM	R					
0400		1028		DOM	R					
1029		1129		BKT-D	RA					
1130		1146		DOM	R					
1130		1146		DOM	R					
1147		1208		BKT-D	RA					
1209	RR	1238	С							
1209	RU	1238	Т							
1239	JR	1307	C							
1239	RU	1307	Т							
1308		1358		DOM	R					
1308		1358		DOM	R					
1359	JR	1513	С							
1359	RU	1513	Т							

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		POSITION	I LOG		
(1) FACILITY ID	(2) POSITION IDENTIF	FIER (3)	POS	(4) DATE	
ZDC	DOM-D	F	P.A.	06/07/20	19
TIME ON	INITIALS	TIME OFF	(8) CODE	WHERE COMBINE	(10) POSITION
1514		1558		DOM	R
1514		1558		DOM	R
1559	JR	1724	С		
1559	RU	1724	Т		
1725		1736		DOM	R
1725		1736		DOM	R
1737	AO	1855	C		
1856		1914		DOM	R
1856		1914		DOM	R
1915	RC	1941	С		
1942		0359		DOM	R
1942		0359		DOM	R

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POSITION LOG										
1) FACILITY ID	(2) POSITION IDENT	IFIER (3	POS	(4) DATE						
ZDC	DOM-L		Н	06/07/20	19					
(5) TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINI	1					
TIME ON	INITIALS	TIME OFF	CODE	(9) POSITION IDENTIFIER	(10) POSITIO TYPE					
0400		0359		DOM	R					
0400		0359		DOM	R					

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		POSITI	ON LC	G		
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	(3) POS	3) POS (4) DATE		
ZDC	FKN		R		06/07/20	19
TIME ON	(6) INITIALS	TIME OFF	co	DE DE	WHERE COMBINE	(10) POSITION
0400		1208	3		BKT	R
0400		1208	3		BKT	R
1209		0045	5		DOM	R
1209		0045	5		DOM	R
0046		0354			BKT	R
0046		0354			BKT	R
0355		0359			LIB	R
0355		0359			LIB	R
0355		0359		1	LIB	R
NDE:						

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		POSITION	ON LOG		·
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	(3) POS	(4) DATE	
ZDC	FKN-I)	RA	06/07/20	19
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBIN	(10) POSITION
0400		0359		FKN	R
0400		1028		FKN	R
0400		0359		FKN	R
0400		1028		FKN	R
1029		1129		BKT-D	RA
1130		1146		FKN	R
1130		1146		FKN	R
1147		1208		BKT-D	RA
1209		1307		DOM-D	RA
1308		1358		FKN	R
1308		1358		FKN	R
1359		1513		DOM-D	RA
1514		1558		FKN	R
1514		1558		FKN	R

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		POSITIO	N LOG		
(1) FACILITY ID	(2) POSITION IDEN	(4) DATE			
ZDC	FKN-I		RA	06/07/20	19
(5) TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINI	(10) POSITION
1559		1724		DOM-D	RA
1725	+	1736		FKN	R
1725		1736		FKN	R
1737		1855		DOM-D	RA
1856		1914		FKN	R
1856		1914		FKN	R
1915		1941		DOM-D	RA
1942		0359		FKN	R
1942		0359		FKN	R

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		POSITIO	N LOG			
(1) FACILITY ID	(2) POSITION IDENTI	SITION IDENTIFIER (3) POS		S (4) DATE		
ZDC	FM-2		0	06/07/20	19	
TIME ON	NITIALS	TIME OFF	(8) CODE	WHERE COMBIN	(10) POSITION TYPE	
0400		0959		QM-2	0	
0400		0959		QM-2	0	
1000	VA	1609	S			
1610	XJ	1759	С			
1800		2131		QM-2	0	
1800		2131		QM-2	0	
2132	GP	2228	С			
2229		0008		Closed		
0009	FL	0058	С			
0059	GP	0145	C			
0146		0359		Closed		

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		POSITI	ON LOG		
(1) FACILITY ID	(2) POSITION IDENT	IFIER	(3) POS	(4) DATE	
ZDC	HPW		R	06/07/20	19
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBIN	(10) POSITIO
0400		1030		BKT	R
0400		1030		BKT	R
1031	JP	1058	С		
1059	ВУ	1149	С		
1150	MJ	1233	С		
1234	NJ	1332	С		
1333	MJ	1430	С		
1431	JP	1525	С		
1526	MJ	1553	C		
1554	ZF	1705	С		
1706	SA	1832	С		
1833	FL	1938	С		
1939	TQ	1948	С		
1949	SA	2054	С		

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SN: 0052-00-024-6102 Electronic Version (OmniForm)

		POSITI	ON LOG	1		
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	(3) POS	(4) DATE		
ZDC	HPW		R	06/07/20	19	
TIME ON	(6) INITIALS	TIME OFF	CODE	WHERE COMBIN	(10) POSITION TYPE	
2055	HP	2209) C			
2210	EF	2308	C			
2309	KT	0013	С			
0014	вк	0119) C			
0120	WL	0152	C			
0153	HP	0208	C			
0209		0354		BKT	R	
0209		0354		BKT	R	
0355		0359)	LIB	R	
0355		0359)	LIB	R	
0355		0359)	LIB	R	

C - ATCS/ATA

M - Trainee/Developmental Monitoring

S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

 T - Trainee/Developmental
 Evaluation

 FAA Form 7230-10 (6-94)
 NSN: 0052-00-024-6102
 Electronic

Electronic Version (OmniForm)

		POSITION	N LOG			
(1) FACILITY ID	(2) POSITION IDEN	(2) POSITION IDENTIFIER (3) PC		(4) DATE		
ZDC	HPW-D	F	RA	06/07/20	19	
TIME ON	INITIALS	TIME OFF	CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE	
0400		1028		HPW	R	
0400		1028		HPW	R	
0400		1028		HPW	R	
1029		1030		BKT-D	RA	
1031		1716		HPW	R	
1031		1716		HPW	R	
1031		1716		HPW	R	
1717	EW	1734	Т			
1717	PH	1734	C			
1735		1859		HPW	R	
1735		1859		HPW	R	
1735		1859		HPW	R	
1900	EW	1938	Т			
1900	PH	1938	С			

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Electronic Version (OmniForm)

		I LOG			
(2) POSITION IDENTIF	IER (3)	POS	(4) DATE		
HPW-D	F	RA.	06/07/20	19	
(6) INITIALS	TIME OFF	CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE	
	2033		HPW	R	
	2033		HPW	R	
	2033		HPW	R	
EW	2133	Т			
PH	2133	C			
	2224		HPW	R	
	2224		HPW	R	
	2224		HPW	R	
EW	2346	Т			
PH	2346	С			
	0359		HPW	R	
	0359		HPW	R	
	0359		HPW	R	
	EW PH	EW 2133 PH 2133 2224 2224 EW 2346 PH 2359 0359	100 100	MITALS	

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POSITION LOG										
(1) FACILITY ID	(2) POSITION IDENTIFIER		(3) POS		(4) DATE					
ZDC	HPW-I	5	Н		06/07/20	19				
TIME ON	(6) INITIALS	(7) TIME O	ee.	(8) CODE	WHERE COMBINI	_				
		CODE	(9) POSITION IDENTIFIER	(10) POSITION TYPE						
0400		035	59		HPW	R				
0400		035	9		HPW	R				
0400		035	9		HPW	R				
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	POSITION LOG										
(1) FACILITY ID	(2) POSITION IDENTI	FIER	(4) DATE								
ZDC	IRS		R	06/07/20	19						
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBIN	(10) POSITION TYPE						
0400		0354		BKT	R						
0400		0354		BKT	R						
0355		0359		LIB	R						
0355		0359		LIB	R						
0355		0359	9	LIB	R						

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		POSITIO	ON LOG			
(1) FACILITY ID	(2) POSITION IDENT	TFIER	(3) POS	(4) DATE		
ZDC	IRS-D)	RA	06/07/20	19	
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBIN	(10) POSITION TYPE	
0400		1028		IRS	R	
0400		1028		IRS	R	
1029		1129		BKT-D	RA	
1130		1146		IRS	R	
1130		1146		IRS	R	
1147		1208		BKT-D	RA	
1209		1225		IRS	R	
1209		1225		IRS	R	
1226		1255		BKT-D	RA	
1256		1344		IRS	R	
1256		1344		IRS	R	
1345		1521		BKT-D	RA	
1522		1625		IRS	R	
1522		1625		IRS	R	

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		POSITIO	ON LOG		
(1) FACILITY ID	(2) POSITION IDENTIFIER (3) POS			(4) DATE	
ZDC	IRS-I		RA	06/07/20	19
	(6) INITIALS	(7) TIME OFF	(8) CODE	WHERE COMBINI	(10) POSITION TYPE
1626		1805		BKT-D	RA
1806		1944		IRS	R
1806		1944		IRS	R
1945		2034		BKT-D	RA
2035		0359		IRS	R
2035		0359		IRS	R

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		POSITI	ON LOG			
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	(3) POS	(4) DATE		
ZDC	LIB		R	06/07/20	19	
TIME ON	(6) INITIALS	TIME OFF	CODE	WHERE COMBINI (9) POSITION IDENTIFIER	(10) POSITION TYPE	
0400		0402		RDU	R	
0400		0402		RDU	R	
0400		0402		RDU	R	
0403		1007		BKT	R	
0403		1007		ВКТ	R	
1008		1255		RDU	R	
1008		1255		RDU	R	
1008		1255		RDU	R	
1256	ZF	1311	С			
1312		1425		RDU	R	
1312		1425		RDU	R	
1312		1425		RDU	R	
1426	AN	1428	С			
1429	NJ	1524	С			

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		POSITION	I LOG		
(1) FACILITY ID	(2) POSITION IDENT	TIFIER (3)	POS	(4) DATE	
ZDC	LIB		R	06/07/20	19
TIME ON	(6) INITIALS	TIME OFF	CODE	WHERE COMBINE	(10) POSITION TYPE
1525	AN	1636	С		TIFE
1637	EF	1729	С		
1730	EF	1739	С		
1740	WL	1846	С		
1847	BK	1931	С		
1932	ZW	2039	C		
2040	NG	2152	C		
2153	SA	2209	С		
2210		0332		RDU	R
2210		0332		RDU	R
2210		0332	-	RDU	R
0333		0357		BKT	R
0333		0357		BKT	R
0358	MM	0359	С		

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		POSITI	ON LO	G		
(1) FACILITY ID	(2) POSITION IDEN	TIFIER	(3) POS		06/07/2019	
ZDC	LIB-I)	RA			
TIME ON	(6) INITIALS	TIME OFF	(8) COD	DE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE
0400		1040)		LIB	R
0400		1040			LIB	R
0400		1040)		LIB	R
1041		1152			RDU-D	RA
1153		1156			LIB	R
1153		1156	5		LIB	R
1153		1156	5		LIB	R
1157		1239	9		RDU-D	RA
1240		2219	9		LIB	R
1240		2219	9		LIB	R
1240		2219	9		LIB	R
2220		2316			RDU-D	RA
2317		0359	9		LIB	R
2317		0359	9		LIB	R

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NSN: 0052-00-024-6102

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POSITION LOG										
(1) FACILITY ID	(2) POSITION IDENTIFIER		(3) POS		(4) DATE					
ZDC	LIB-I)	RA		06/07/20	019				
(5)	161			(8)	WHERE COMBI	NED				
(5) TIME ON	INITIALS	(7) TIME C)FF	CODE	(9) POSITION IDENTIFIER	(10) POSITION TYPE				
2317		035	59		LIB	R				
						-				

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	F	POSITION	N LOG			
1) FACILITY ID	(2) POSITION IDENTIFIER (3) POS			(4) DATE		
ZDC	LIB-L		Н	06/07/20	19	
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE	
0400		0359		LIB	R	
0400		0359		LIB	R	
0400		0359		LIB	R	

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	F	POSITIO	N LOG			
(1) FACILITY ID	(2) POSITION IDENTIF	ER () POS	(4) DATE		
ZDC	QM-2		0	06/07/20	19	
TIME ON	(6) INITIALS	TIME OFF	CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE	
0400		1733		A2	А	
0400		1733		A2	А	
0400		1733		A2	А	
1734	AN	1906	C			
1907	NG	1948	C			
1949	AN	2031	C			
2032	FL	2134	C			
2222	FL	2316	C			
2317	GP	0014	C			
0015		0142		Closed		
0143	FL	0153	С			
0154	NG	0211	С			
0212		0359		A2	А	
0212		0359		A2	А	

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POSITION LOG								
(1) FACILITY ID	(2) POSITION IDEN	(2) POSITION IDENTIFIER (3) POS			(4) DATE			
ZDC	QM-2	QM-2			06/07/2019			
(5)	16)		γ.	(8) CODE	WHERE COMBIN	IED		
TIME ON	(6) INITIALS	TIME (OFF	CÓDE	(9) POSITION IDENTIFIER	(10) POSITION TYPE		
0212		035	59		A2	А		

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POSITION LOG							
(1) FACILITY ID	(2) POSITION IDEN	TIFIER () POS	(4) DATE			
ZDC	RDU		R	06/07/2019			
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0400	QT	0402	С				
0403		1010		BKT	R		
0403		1010		BKT	R		
1011	RR	1056	С				
1057	NJ	1149	С				
1150	AN	1239	С				
1240	ВУ	1403	С				
1240	GA	1403	Т				
1404	ZF	1504	C				
1505	BY	1651	С				
1505	GA	1651	Т				
1652	VP	1826	С				
1827	EF	1939	С				
1940	WL	2029	C				

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		POSITION	LOG			
(1) FACILITY ID	(2) POSITION IDEN	NTIFIER (3) POS		(4) DATE		
ZDC	RDU		R	06/07/2019		
TIME ON	(6) INITIALS	TIME OFF	(8) CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITION TYPE	
2030	BK	2118	С			
2119	WL	2211	С			
2212	SA	2254	С			
2255	NG	2358	С			
2359	EF	0049	С			
0050	TQ	0103	С			
0104	KT	0150	C			
0151	TQ	0217	C			
0218	NJ	0332	C			
0333		0354		BKT	R	
0333		0354		BKT	R	
0355		0359		LIB	R	
0355		0359		LIB	R	
0355		0359		LIB	R	

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	POSITION LOG								
(1) FACILITY ID	(2) POSITION IDEN	NTIFIER (3) POS		(4) DATE					
ZDC	RDU-I		RA	06/07/20	19				
TIME ON	(6) INITIALS	TIME OFF (8)		WHERE COMBINED (9) POSITION IDENTIFIER (10) POSITION TYPE					
0400		1040		RDU	R				
0400		1040		RDU	R				
0400		1040		RDU	R				
1041	SE	1152	С						
1153		1156		RDU	R				
1153		1156		RDU	R				
1153		1156		RDU	R				
1157	GA	1239	С						
1240		2219		RDU	R				
1240		2219		RDU	R				
1240		2219		RDU	R				
2220	AO	2257	C						
2258	HP	2316	C						
2317		0359		RDU	R				

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		POSITIO	N LOG				
(1) FACILITY ID	(2) POSITION IDENT	IFIER	(3) POS	POS (4) DATE			
ZDC	RDU-D)	RA	06/07/2019			
(5) TIME ON	(6) INITIALS	TIME OFF	code	WHERE COMBINED			
	THE STATE OF THE S		CODE	(9) POSITION IDENTIFIER	(10) POSITION TYPE		
2317		0359		RDU	R		
2317		0359		RDU	R		
				The second secon			

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	P	OSITIO	N LOG		
(1) FACILITY ID	(2) POSITION IDENTIFIE	(2) POSITION IDENTIFIER (3) POS			
ZDC	RDU-L		Н	06/07/2019	
TIME ON	(6) INITIALS	TIME OFF	CODE	WHERE COMBINE (9) POSITION IDENTIFIER	(10) POSITIO
0400		0359		RDU	R
0400		0359		RDU	R
0400		0359		RDU	R
		<u> </u>			

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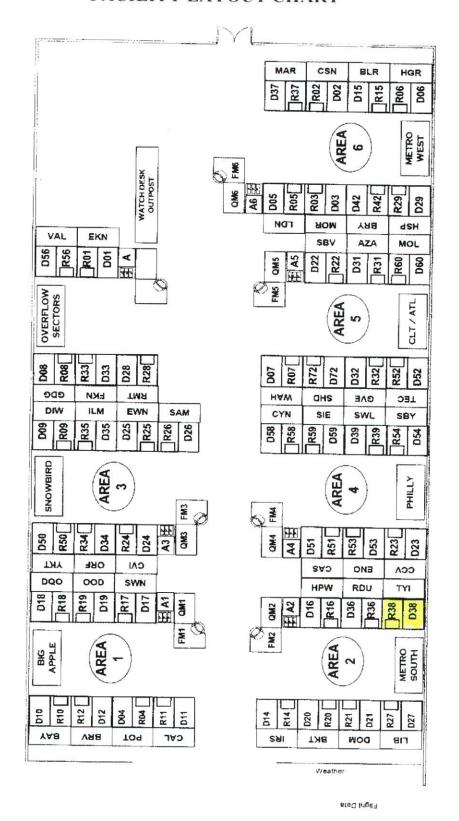
FAA Form 7230-10 (6-94) NSN

NSN: 0052-00-024-6102

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SECTION 7.
Facility Layout Chart(s)

WASHINGTON AIR ROUTE TRAFFIC CONTROL CENTER FACILITY LAYOUT CHART



SECTION 8.

Flight Progress Strip(s) and/or In-Flight Contact Record(s)

Flight Progress Strip(s)

FPS Washington ARTCC June 07, 2019 UTC

N7Ø9CH P46T/G T26Ø G276 2Ø 14	TYI 274 Ø3Ø 1726		270	FKN Ø27 Ø21	KAPF./.TYI274030 FKN HCM TAPPA V16 PXT V93 GRACO KESN	1436
227 10/3		FKN				

SECTION 9.
Transcription of Voice Recording(s)



Memorandum

Date: June 19, 2019

Aircraft Accident File 19-001-ZDC To:

Washington Air Route Traffic Control Center From:

Subject: **INFORMATION**: Partial Transcript

Aircraft Accident, N709CH Nashville, NC, June 07, 2019

This transcription covers the Washington Air Route Traffic Control Center (ARTCC) TYI R position for the time period from June 07, 2019, 1631 UTC, to June 07, 2019, 1818 UTC.

I certify that the following is a true transcription of the recorded conversations pertaining to the subject Accident involving N709CH.

MICHAEL A Digitally signed by MICHAEL A DIMATTEO DIMATTEO Date: 2019.06.19 14:39:07 -04'00'

Michael A Dimatteo Support Specialist Washington ARTCC

Agencies Making Transmissions Abbreviations

N709CH N709CH Washington ARTCC, TYI R TYI R

1631 (1632 - 1700)1701 1701:18 N709CH washington center (unintelligible) seven zero nine charlie hotel with you at flight level two seven zero 1701:25 TYI R november seven zero nine charlie hotel washington center i'll have routing for you here in a moment 1702 1703 1703:27 TYI R november seven zero nine charlie hotel you ready for your routing 1703:31 N709CH ready for routing seven o nine charlie hotel

19-001-ZDC N709CH

Page 2 of 4		
1703:33	TYI R	november seven zero nine charlie hotel you're cleared direct richmond romeo india charlie victor sixteen to patuxent papa xray tango victor ninety three to graco golf romeo alpha charlie oscar direct
1703:34	N709CH	seven zero nine charlie hotel ah direct ${\tt r}$ i c then victor six one six then ah papa xray tango then victor niner three then graco
1704		
1704:34 1705 (1706-1716)	TYI R	read back correct thank you
1717 1717:10	N709CH	washington seven zero nine charlie hotel our radar shows us coming into ah some weather ahead ah do you see that
1717:17	TYI R	ah some people been going around it some people been going through it but you can deviate ah right of course when able direct richmond
1717:18 1718 1719	N709CH	roger we can deviate right of course and then when able direct to richmond seven zero nine charlie hotel
1720 1720:25	TYI R	november seven zero nine charlie hotel you can go left or right when able direct richmond whatever's best for you
1720:34	N709CH	richmond looks dicey weather too is that okay for us
1720:37	TYI R	i don't know i don't work that though next sector will ah have something for you with that yeah it does look a little a little rough around there but they'll have
1721		something for ya
1721:01	N709CH	we're thinking it might be better for us to go out over towards the coast to go around all of that seven o nine charlie hotel
1721:06	TYI R	alright well we got the restricted area active so ah we

gotta we gotta work within the confines of that if i gave you like franklin harcum which hotel charlie mike and then um tappa tango alpha papa papa alpha into patuent that way would that work for you does that sound like

something that would work

1721:29	N709CH	you have to say it again we didn't catch it
1721:30	TYI R	that's okay ah like tar river er i'm sorry franklin foxtrot kilo november to harcum hotel charlie mike and then ah towards patuxent they'll be another fix in between there just to keep you out of the restricted area but we could do something like that
1721:53 1722 1723 1724	N709CH	we'll we'll check seven zero nine charlie hotel
1724:12	N709CH	seven zero nine charlie hotel like to start heading towards flan franklin
1724:21 1725 (1726-1728)	TYI R	and ah seven zero nine charlie hotel cleared direct franklin foxtrot kilo november direct harcum hotel charlie mike and direct tappa tango alpha papa papa alpha and then direct to patuxent the rest of route unchanged
1729 1729:15	N709CH	washington seven o nine charlie hotel you showing tops over here looks like we're about to go into some rain
1729:20	TYI R	ah i don't have any tops reports right now but i do have some weather deviations if you need to go further right just let me know
1729:27	N709CH	yeah seven o nine charlie ho hotel about thirty degrees right
1729:31	TYI R	november seven zero nine charlie hotel approved when able direct to ah franklin
1729:36 1730	N709CH	when able direct franklin seven o nine charlie hotel
1730:46	TYI R	november seven zero nine charlie hotel

Page 4 of 4						
1730:51	TYI R	november se	even zero	nine charl	ie hotel	
1730:58 1731	TYI R	november se	even zero	nine charl	ie hotel	
1731:13	TYI R	november se	even zero	nine charl	ie hotel	
1731:42	TYI R	november se	even zero	nine charl	ie hotel	
1731:50 1732	TYI R	november se	even zero	nine charl	ie hotel	
1732:22	TYI R	november se	even zero	nine charl	ie hotel	
1732:57 1733 (1734-1737)	TYI R	november se	even zero	nine charl:	ie hotel	
1738 1738:35 1739	TYI R	november se	even zero	nine charl	ie hotel	washington
1739:41 1740 (1741-1745)	TYI R	november se	even zero	nine charl.	le hotel	washington
1746 1746:57 1747	TYI R	seven zero	nine char	lie hotel v	vashingt	on
1747:03	TYI R	november se	even zero	nine charl:	ie hotel	
1747:12 1748 (1749-1817) 1818	TYI R	meridian se	even zero	nine charl:	ie hotel	washington

End of Transcript

SECTION 10. Weather Products

Washington ARTCC

Weather Products 6/7/2019 UTC

METAR KRWI 071653Z AUTO 00000KT 8SM -RA OVC065 27/22 A2986 RMK A02 LTG DSNT NW RAB49 SLP109 20000 T02670222

METAR KRWI 071753Z AUTO 00000KT 9SM FEW036 BKN090 27/22 A2984 RMK AOZ LTG DSNT N RAE11 SLP102 P0000 60000 T02720217 10278 20233 58011

I certify the attached copy of the METARs originated from the APG-link to archived weather is an accurate copy of the original.

Robert Law

Quality Control Specialist

Washington ARTCC



ZDC CWSU WEATHER BRIEFING SHEET



VALID: 6/19Z - 7/04Z ISSUED: 19Z - 6/5/19 FORECASTER: MICHAEL

Link to BRIEFING PDF: weather.gov/media/zdc/brief/BRIEF.PDF

DURING NON-CWSU OPS HRS, CONTACT THE STERLING NWS OFFICE FOR UPDATES: 703-996-2202

WEATHER SYNOPSIS: SCT-ISOLD THUNDERSTORMS POSSIBLE ACROSS ZDC WITH THE HIGHEST COVERAGE SPREAD W-E ALONG THE NC/VA BORDER LATE AFTERNOON INTO TONIGHT. A FEW MERGING CELLS MAY ALSO IMPACT NJ/DELMARVA.

ZDC ENROUTE WX HAZARDS BY AREA (PIREPS REQUESTED IF AREA HAS A "X")
[X = HAZARD IS OCCURRING OR FORECAST TO OCCUR FOR THAT AREA IN NEXT 8 HOURS]

HAZARD	(5	lick	-	EAS view		p)	SUMMARY OF HAZARD
	1	2	3	4	5	6	
ICING							NO SIG ICE OUTSD SHRA/TS: FRZ LEVEL 130 N - 150 S ZDC
TURBULENCE	X	Х	Х	Х	Х	Х	OUTSD SHRA/TS: OCNL MOD ABV FL260
COMPRESSION/ LLWS							
CIG BLW 050/ VIS BLW 3SM							
TSRA	Х	Х	Х	X	X	X	ISOLD-SCT TS S NJ TO NCTOPS FL400 AND MOVE E 10 KT

TERMINAL WX HAZARDS/IMPACTS - FOR THE LATEST TAFS, PLEASE VISIT:

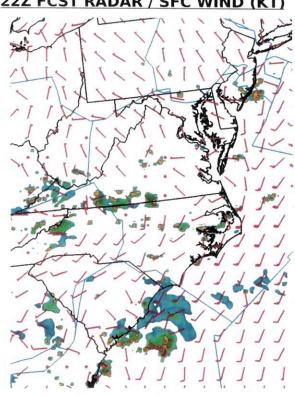
https://www.aviationweather.gov/taf

[X = HAZARD/IMPACT IS FORECAST AT ONE OR MORE TERMINAL(S) IN NEXT 8 HRS1

TERMINALS	SFC WIND/WX HAZARDS													
	SFC WINDS	PRECIP	MVFR- LIFR	LLWS/ COMPRSN										
IAD/DCA/BWI	NW 8G16 KTNNW 6 KT AFT 23Z													
RIC/ORF/PHF	W 10 KTSW 5 KT AFT 23Z	VCTS AFT 23Z												
ROA/CHO/LYH	VRB 5 KT	VCTS												
RDU/CLT/GSO	SW 8G16 KT	VCTS												
EWR/JFK/LGA	NW 7 KTFEW GUST 18 KT													
PHL	NW 8 KT	VCTS TIL 21Z												
BOS	E 6 KTSE 5 KT AFT 23Z													
ATL	SW 6 KTS 6 KT AFT 00Z	SHRAEMBD ISOLD TS	SCT MVFR											

21Z FCST FL350 WIND (KT)

22Z FCST RADAR / SFC WIND (KT)





ZDC CWSU WEATHER BRIEFING SHEET



VALID: 7/11Z - 7/19Z ISSUED: 11Z - 6/7/19 FORECASTER: TODD

Link to BRIEFING PDF: weather.gov/media/zdc/brief/BRIEF.PDF

DURING NON-CWSU OPS HRS, CONTACT THE STERLING NWS OFFICE FOR UPDATES: 703-996-2202 WEATHER SYNOPSIS: COLD FRONT ACROSS S VA DRIFTING SOUTHWARD. SHOWERS ON THE INCREASE AREAS S OF DC

THIS MRNG...ISOLD TS PSBL. TS INCRS AFT 15Z FORMING E-W BANDS BY 17Z.

ZDC ENROUTE WX HAZARDS BY AREA (PIREPS REQUESTED IF AREA HAS A "X") [X = HAZARD IS OCCURRING OR FORECAST TO OCCUR FOR THAT AREA IN NEXT 8 HOURS]

HAZARD	(lick		EAS riew	maj	2)	SUMMARY OF HAZARD	
	1	2	2	3	4	5	6	
ICING	X	Х	Х	х	х	х	OUTSD SHRA/TS: OCNL LGT-MOD FRZ-FL250 S OF DC. FRZ LEVEL 130 N - 150 S ZDC	
TURBULENCE	X	Х	х	X	Х	Х	OUTSD SHRA/TS: LGT-MOD ABV FL270.	
COMPRESSION/								
CIG BLW 050/ VIS BLW 3SM		X	X		X	X	SOME IFR/MVFR CIGS SOME VIS FOG THIS MRNG.	
TSRA	х	X	Х	X	Х	Х	ISOLD TS THIS MRNG S ¾ ZDC. TS BEGIN TO INCRS SAME AREA AFT 15Z FORMING E-W BANDS BY 17Z. TOPS FL300'S; FL350-450 AFT 16Z. MOVG NE-N 10-20KT.	

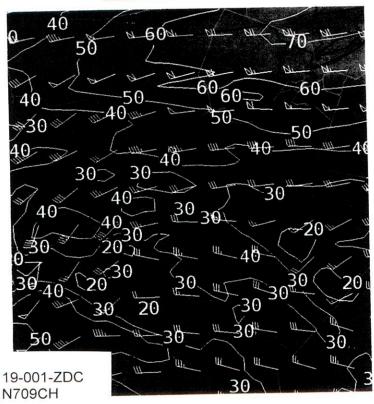
TERMINAL WX HAZARDS/IMPACTS - FOR THE LATEST TAFS, PLEASE VISIT:

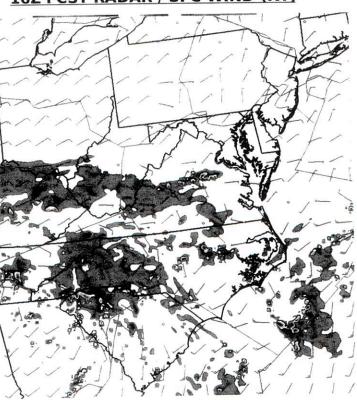
https://www.aviationweather.gov/taf [X = HAZARD/IMPACT IS FORECAST AT ONE OR MORE TERMINAL(S) IN NEXT 8 HRS]

TERMINALS	SFC WIND/WX HAZARDS SEC WINDS PRECIP MVFR-LIFR LLWS/														
TERRITOR	SFC WINDS	SFC WINDS PRECIP													
IAD/DCA/BWI	N-NE 5-10KT														
RIC/ORF/PHF	N-NE 3-10KT	INCRSG SHRA/PSBL TS AFT 15Z													
ROA/CHO/LYH	N-NE 4-8KT	INCRSG SHRA/PSBL TS AFT 15Z													
RDU/CLT/GSO	VRB 5KT	INCRSG SHRA/PSBL TS AFT 15Z	OCNL MVFR												
EWR/JFK/LGA	N-NE 5-10KT														
PHL	N-NE 5-10KT			-											
BOS	N-NE 4-8KT														
ATL	SE-S 10KT; SW 8KT AFT 16Z	SHRAEMBD ISOLD TS	IFR>MVFR												

15Z FCST FL350 WIND (KT)

16Z FCST RADAR / SFC WIND (KT)







ZDC CWSU WEATHER BRIEFING SHEET



VALID: 7/19Z - 8/03Z ISSUED: 19Z - 6/7/19 FORECASTER: RICK

Link to BRIEFING PDF: weather.gov/media/zdc/brief/BRIEF.PDF

DURING NON-CWSU OPS HRS, CONTACT THE STERLING NWS OFFICE FOR UPDATES: 703-996-2202

WEATHER SYNOPSIS: COLD FRONT ACROSS S VA DRIFTING SOUTHWARD. SHOWERS N OF FRONT WITH WDLY SCT TS

ZDC ENROUTE WX HAZARDS BY AREA (PIREPS REQUESTED IF AREA HAS A "X")
[X = HAZARD IS OCCURRING OR FORECAST TO OCCUR FOR THAT AREA IN NEXT 8 HOURS]

HAZARD	AREAS (click to view map)					p)	SUMMARY OF HAZARD		
	1	2	3	4	5	6			
ICING	х			Х		Х	OUTSD SHRA/TS: OCNL LGT-MOD 150-FL250.		
TURBULENCE	X	Х	Х	Х	Х	Х	OUTSD SHRA/TS: LGT-MOD ABV FL300.		
COMPRESSION/ LLWS									
CIG BLW 050/ VIS BLW 3SM	Х	Х			Х	Х	AREAS OF IFR/MVFR CIGS.		
TSRA		Х	X				WDLY SCT TS MAINLY E NC / SE VA. TOPS FL400. MOVG NE-N 5 KT.		

TERMINAL WX HAZARDS/IMPACTS - FOR THE LATEST TAFS, PLEASE VISIT:

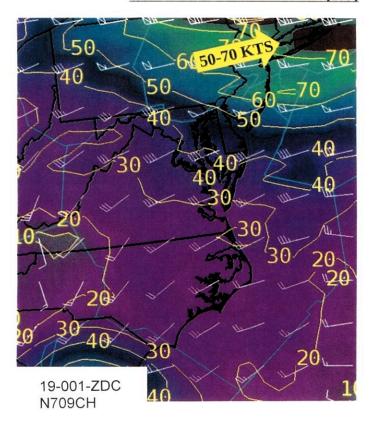
https://www.aviationweather.gov/taf

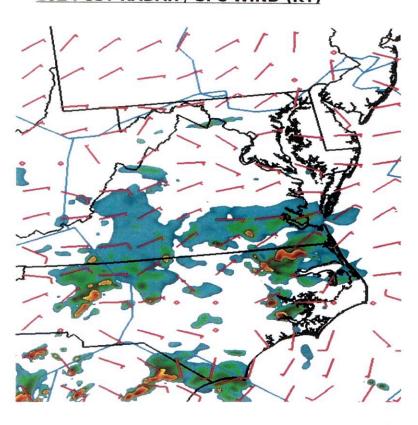
[X = HAZARD/IMPACT IS FORECAST AT ONE OR MORE TERMINAL(S) IN NEXT 8 HRS1

TERMINALS	SFC WIND/WX HAZARDS													
	SFC WINDS	MVFR-LIFR	LLWS/ COMPRSN											
IAD/DCA/BWI	N-NE 5-10 KT													
RIC/ORF/PHF	N-NE 4-10 KT	TS NEAR RIC/PHF TIL 22Z	LCL MVFR CIGS											
ROA/CHO/LYH	E-NE 4-10 KT	VCTS LYH	LCL MVFR CIGS											
RDU/CLT/GSO	E-SE 5-10 KT	TS	LCL MVFR CIGS											
EWR/JFK/LGA	E-SE 4-10 KT													
PHL	E 5-10 KT													
BOS	SE 5-10 KT													
ATL	SW 5-15 KT	TS TIL 23Z												

15Z FCST FL350 WIND (KT)

16Z FCST RADAR / SFC WIND (KT)





FAUS21 KZDC 071628
ZDC1 CWA 071625
ZDC CWA 101 VALID UNTIL 071700
FROM 20SW CSN-40NNE ORF-20WSW ORF-25NNE LYH-20SW CSN
DEVELOPING AREA OF SHRA WITH EMBEDDED TSRA. TOPS TO FL380 MOVING NE
10KT. IMPACTS TO J14 / RIC. FURTHER DEVELOPMENT POSSIBLE THROUGH
17Z.*

FAUS22 KZDC 071632
ZDC2 CWA 071630
ZDC CWA 201 VALID UNTIL 071700
FROM 30N RUD-40E ECG-55SSE ECG-15SW RDU-30N RDU
AREA OF DEVELOPING TSRA MOVG NE 10KT W/ TOPS AROUND FL400. IMPACTS
TO J55 J121 J174. ADDITIONAL DEVELOPMENT LIKELY THROUGH 17Z.*

FAUS22 KZDC 071635 ZDC2 CWA 071630 COR

ZDC CWA 201 VALID UNTIL 071700

FROM 30N RDU-40E ECG-55SSE ECG-15SW RDU-30N RDU
AREA OF DEVELOPING TSRA MOVG NE 10KT W/ TOPS AROUND FL400. IMPACTS
TO J55 J121 J174. ADDITIONAL DEVELOPMENT LIKELY THROUGH 17Z. COR
COORDINATE.*

FAUS22 KZDC 071701 ZDC2 CWA 071700 ZDC CWA 202 VALID UNTIL 071800 FROM 25WNW ECG-25ENE ECG-65ENE ILM-25WNW ECG AREA OF DEVELOPING TSRA MOVG NE 10KT W/ TOPS TO AROUND FL400. IMPACTS TO J121 J174. ADDITIONAL DEVELOPMENT LIKELY THROUGH 18Z.*



Memorandum

Date:

May 14, 2019

To:

Distribution List

From:

Kevin Paradis 703-771-3511

Subject:

ERAM Release Letter

Washington ARTCC

ERAM Release w323a523 eae1300p system for 5/23/2019

Effective May 23, 2019 a new ERAM system is available for operational use.

Following is the system release information:

ERAM Release: w323a523

Software Level: eae1300p

ERAM Fallback System ID: w323a425 Software Level: eae1300p

Call the National Helpdesk if considering an ERAM fallback (800-377-0308) as national impact would need to be assessed due to distributed adaptation.

Special instructions for the NOMs:

After promotion to any new system, please execute the text file "STARTUP." Effective 5/21, ILM APCH will transition to STARS. The M&C Display will be updated to reflect this in the following (6/20) system.

Tech Ops:

An EBUS map CD is available.

Issue#: 199865 Title: ZNY_ERAM: CON OPS TERM PHL - ZDC ARR 09ACY TRUMPS ZNY AAR

PA130 @ ARD

AAR 09ACY - Extended route into ZNY airspace, per SARBOARD Mtg. Extended to ETX.

Issue#: 206013 Title: ZDC_ERAM: Second FSP for sector 40

Per attached requirement, adapted a second FSP at sector 40 (OMIC) for test and possible Flight Data use.

Issue#: 206011 Title: ZDC_ERAM: Adapt ZJX STARS facility

Adapted ZJX STARS facility FFF as a neighboring ARTS using ZMA's adaptation as a template.

Issue#: 205411 Title: ZDC_ERAM: PHL offload

Modify offload ADR PHL01 & PHL02, add four more as follows:

PHL01 field 10 alphas ..DQO..BELAY..MORTY..LITME..HIRCK..JDUBB..RRSIN.., t-fix RRSIN, ARTS 1BB @DQO/MJD @RRSIN

PHL04 field 10 alphas ..DQO..BELAY..MORTY..LITME..HIRCK..JDUBB..MELTN.., t-fix MELTN, ARTS 1BB @DQO/MJD @MELTN

PHL08 field 10 alphas ..DQO..BELAY..MORTY..LITME..HIRCK..CLTCH..KERRK.., t-fix KERRK, ARTS 1BB @DQO/MCL @KERRK

PHL09 field 10 alphas ..DQO..BELAY..MORTY..LITME..HIRCK..SCRAM..WALCE.., t-fix WALCE, ARTS 1BB @DQO/MSC @WALCE

PHL02 field 10 alphas ..DQO..BELAY..MORTY..FOXHL..OTTTO.., t-fix OTTTO, ARTS 1BB @DQO/MOT @OTTTO

PHL05 field 10 alphas ..DQO..BELAY..MORTY..FOXHL..RAMAY.., t-fix RAMAY, ARTS 1BB @DQO/MRM @RAMAY

No posting points except KPHL departure procedure. Added all to RG 00. Excluded all from restriction ZDC.PHL_DEPT_ZNY/04_A_VIA_MXE_MURPH_240.

PHL01/04/08/09 send ARTS correctly at all altitudes. PHL02/05 send ARTS correctly AOA FL180 because OTTTO/RAMAY are within PCT AOB 170.

Issue#: 205189 Title: ZDC_ERAM: Modify CDR routes for the 5/23/18 Interim Modified 21 CDR routes with fix FKN to COUPN. Added SPLAT * after KRDU on the RDUEWR10 CDR.

Removed SPLAT * for RDUBDL11, RDUBDLYK, RDUBOS20 and RDUPVD10.

Issue#: 205112 Title: ZDC_ERAM: ZDC Update of PCT TRACON contingency Updated ZDC TRACON geomap PCT810 using the TRACON map tool. Successfully compared to 4/25 release using GeoRam tool. New and revised items noted.

Issue#: 204936 Title: ZDC_ERAM: Remove supplemental geomap lines surrounding QCA test sort cells

Removed supplemental geomap lines surrounding QCA test sort cells from all applicable maps.

Issue#: 204879 Title: ZDC_ERAM: Add recent weather reporting airports to altimeter station list

Added the following airports to the altimeter station list:

AFJ, BBP, BLM, CDN, CKI, CKZ, CQW, DCM, DYL, EQY, FDW, FFA, FWN, GGE, HVS, HYW, I16, JFZ, LDJ, LKR, LOM, MAO, MPO, MYR, RVL, SMS, UKF, UKT, W13, W29, W31, W63, W75, W78, W81, W96, XLL, 22N, 2G4, 2G9, 33N, 6L4, 7W4, 7W6, 8W2

Removed the weather reporting station check from airport parameters for the following airports (per Sean O'Grady ZDC FTR):

FWQ, 481, 9D4.

Issue#: 204763 Title: ZDC_ERAM: 01DTW AAR and DTW10 APR Duplicated AAR 01DTW as 02DTW. AAR 02DTW adapted with Content Criteria of ..MOL..TARCI.. In addition, for 02DTW, the Crossing Line was deleted and J24 was removed from Field 10.

Issue#: 206009 Title: ZDC_ERAM: Update Stolen Aircraft May Updated Stolen Aircraft. Added N1407L, N2763R and N52BK to the list.

Issue#: 205639 Title: ZDC_ERAM: Stereo Flight Plan Changes

Stereo Routes:

Modified: ECHO1, FVX02, LFI300, LFI301, LFI302, LFI303, LFI304, LFI305, LFI306, LFI307, LFI308, LFI311, LFI312, LFI314, LFI315, LFI316, LFI317, FLUSH, LFIGDOG, AORDR2, AORDR3, AORDR4, AORDR5

AUNDRO

Added: LFI309, LFI310, LFI313

Deleted: LFI300A, LFI301A, LFI302A, LFI303A, LFI304A, LFI305A, LFI307A, LFI314A

Issue#: 204055 Title: ZDC_ERAM: GA Flight plans from IAD through the FRZ - Add Business Jet to Aircraft Class Criteria ZDCA

Added the following NATJ aircraft types to ZDCA also (See attached docs):

A158 A178 A37 A700 A743 B2 74S BA11 BD10 BD5J BER2 BER4 BLCF BSCA BUC C1 C101 C135 C141 C15 C17 C22J C5 C55B C5M C919 CAJ CKUO CNBR DC85 DC86 DC87 DC91 DC92 DC93 DC94 DC95 DJET E3CF E3TF E6 E737 E767 EM10 EVIC F1 F100 F106 F117 F8 F9F FA5X FA8X G250 G2GL G4SG GA5C GA6C GNAT GSPN HDJT I22 IA63 IL28 IR99 J8A JAST JH7 JSQA K35E K35R K8 KC2 KC39 KE3 L15 L159 L39 LCA LEOP LJ70 LJ85 LTNG M15 M17 M326 M55 MC23 METR MG17 MG21 MG23 MG25 MG29 MG31 MG44 MGAT MH02 MICO MIR2 MIRA MRF1 MRJ7 MRJ9 MS76 MYA4 P1 P8 PA47 PC24 PRTS Q5 R135 R721 R722 RFAL RJ1H ROAR S200 S210 S211 S3 S37 S601 SATA SHAW SJ30 SJET SMB2 SP33 SR71 SS2 SSAB STRK SU17 SU7 SU95 SWIF T1 T2 T204 T33 T334 TJET TOR TS11 TZRV VAMP VANT VAUT VF14 VIPJ VMT VNOM VULC WB57 WHK2 WHKN X55 Y130 Y141 YK28 YK30 YK38 YK42 YURO

Issue#: 203390 Title: ZDC_ERAM: No pref departure for RPA4582 ADR GRI3E, D-LINE DL365 modified to: 36030975N/080040073W 35385352N/079125884W

If you have any questions or concerns please contact Kevin Paradis, ZDC POFM at Office (703-771-3511) or Cell (304-839-2037).

SECTION 11. Other

	UTC	(Zulu)	Time	Conve	ersion	Cha	rt
UTC (Zulu)	PST/ ALDT	PDT/ MST	MDT/ CST	CDT/ EST	EDT/ AST	ALST	HST
0000* 0100 0200 0300 0400 0500 0600 0700 0800 0900 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200	1600 1700 1800 1900 2000 2100 2200 2300 0000* 0100 0200 0300 0400 0500 0600 0700 0800 0900 1100 1200 1300 1400	1700 1800 1900 2000 2100 2200 2300 0000* 0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500	1800 1900 2000 2100 2200 2300 0000* 0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600	1900 2000 2100 2200 2300 0000* 0100 0200 0300 0400 0500 0600 0700 0800 0900 1100 1200 1300 1400 1500 1600 1700	2000 2100 2200 2300 0000* 0100 0200 0300 0400 0500 0600 0700 0800 0900 1100 1200 1300 1400 1500 1600 1700 1800	1500 1600 1700 1800 1900 2000 2100 2200 2300 0000* 0100 0200 0300 0400 0500 0600 0700 0800 0900 1100 1200 1300	1400 1500 1600 1700 1800 1900 2000 2100 2200 0300 0400 0500 0600 0700 0800 0900 1100 1200
2300 2400	1500 1600	1600 1700	1700 1800	1800	1900	1400	1300

The time $\star 0000$ and 2400 are interchangeable. The time 2400 is associated with the date of the day ending, and 0000 with the day just starting.

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UTC = Coordinated Universal Time, or Zulu
PST = Pacific Standard Time (UTC - 8 hours)
ALDT = Alaskan Daylight Time (UTC - 8 hours)
PDT = Pacific Daylight Time (UTC - 7 hours)
MST = Mountain Standard Time (UTC - 7 hours)
MDT = Mountain Daylight Time (UTC - 6 hours)
CST = Central Standard Time (UTC - 6 hours)
CDT = Central Daylight Time (UTC - 5 hours)
EST = Eastern Standard Time (UTC - 5 hours)
EDT = Eastern Daylight Time (UTC - 4 hours)
AST = Atlantic Standard Time (UTC - 4 hours)
ALST = Alaskan Standard Time (UTC - 9 hours)
HST = Hawaiian Standard Time (UTC - 10 hours)
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