



Federal Aviation Administration

Memorandum

Date: March 28, 2018

To: Robert Scarbrough, Director, Central Service Center

ALEX SHARIFF
GOVAN

Digitally signed by ALEX
SHARIFF GOVAN
Date: 2018.03.28
08:31:12 -05'00'

From: Alex Govan, Acting Manager, Chicago Air Route Traffic Control Center
Chicago Air Route Traffic Control Center

Subject: **INFORMATION:** Certification Statement
Aircraft Accident, N771XW
Rossville, IN, February 23, 2018

I certify that aircraft accident package, 18-002-ZAU, has been reviewed and is complete.

Aircraft Accident Package

18-002-ZAU

N771XW, C441

February 23, 2018, 0040 UTC

Destroy: August 23, 2020 UTC

SECTION 1.
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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

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		REPORT DATE March 28, 2018		REPORT NO. 18-002-ZAU			
REPORT OF AIRCRAFT ACCIDENT		NAME OF REPORTING FACILITY Chicago ARTCC (ZAU)					
1. AIRCRAFT IDENTIFICATION AND TYPE N771XW, C441		2. DATE/TIME OF ACCIDENT (UTC) February 23, 2018; 0040 UTC		3. LOCATION OF ACCIDENT: CITY, STATE (MAND) Rossville, IN			
4. NATURE OF ACCIDENT Mechanical		LATITUDE/LONGITUDE (OPL) N40 27 51.0000 W086 36 44.0000		5. TYPE OF FLIGHT IFR Flight Plan			
6. FLIGHT CREW	NAME	POSITION	ADDRESS (CITY AND STATE)	UNINJURED	INJURED	FATALITY	UNKNOWN
	Nathan Saari	Pilot	Marquette, MI			X	
7. PASSENGER DATA		NUMBER ABOARD 2 AIRCRAFT	NUMBER UNINJURED 0	NUMBER INJURED 0	NUMBER FATALITIES 2		
8. AIRCRAFT DAMAGE Destroyed			9. PROPERTY DAMAGE Unknown				
10. OPERATING STATUS OF NAVIGATIONAL AIDS/LIGHTS/COMMUNICATIONS Normal							
11. WEATHER DATA (USE UTC DATE/TIME)	REPORT JUST PRIOR TO ACCIDENT LAFAYETTE METAR - 2354 UTC: wind one zero zero at one one, visibility one zero statute miles, ceiling one thousand six hundred overcast, temperature seven, dew point five, altimeter three zero three five						
	FIRST REPORT SUBSEQUENT TO ACCIDENT LAFAYETTE METAR - 0054 UTC: wind one two zero at three, visibility one zero statute miles, ceiling one thousand five hundred overcast, temperature seven, dew point five, altimeter three zero three eight						
12. ATO PERSONNEL INVOLVED	NAME	FACILITY	OPERATING POSITION	CHECK IF EYEWITNESS			
	Kenneth P. Menconi *(VM)	ZAU ARTCC	57 R				
	Brian P. Bammesberger (PZ)	ZAU ARTCC	57 R				
	Michelle P. Buchanan (RD)	ZAU ARTCC	46 R				
	George Zuales (GZ)	ZAU ARTCC	45 R				
*OPERATING INITIALS							
13. SIGNATURE OF FACILITY MANAGER Alex Govan		ALEX SHARIFF GOVAN		Digitally signed by ALEX SHARIFF GOVAN Date: 2018.03.28 14:05:51 -05'00'			

FAA Form 8020-6 (4-17) Supersedes Previous Edition

Electronic Version

18-002-ZAU

N771XW

 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION REPORT OF AIRCRAFT ACCIDENT (Continuation Sheet)	REPORT DATE February 27, 2018	REPORT NO. 18-002-ZAU
	NAME OF REPORTING FACILITY Indianapolis ATCT (IND)	

14. CHRONOLOGICAL SUMMARY OF FLIGHT
February 23, 2018

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME
UNLESS OTHERWISE SPECIFIED

0012 N711XW contacts Indianapolis ATCT Arrival Data (AD) on the Indianapolis Eagle Creek Airpark (EYE) clearance delivery frequency and requests his IFR clearance to GRB.

0013 AD tells N771XW to hold for release and then issues the IFR clearance to Green Bay (GRB). N771XW correctly reads back the IFR clearance.

0014 AD advises N771XW that his IFR clearance read back was correct. AD then verifies N771XW will depart Runway 3 at EYE and asks how long before they will be ready to depart. N771XW indicates that they will be ready in about five (5) minutes. AD asks N771XW to advise them when they are number one at the runway and ready to depart. N771XW indicates that they will comply.

0016 N771XW contacts AD and advises that they are number one at Runway 3 at EYE.

0017 AD issues departure instructions and a release with a clearance void time to N771XW. N771XW reads back the heading that was issued with the departure instructions.

0020 N771XW contacts Indianapolis ATCT Departure Radar East (DRE). DRE asks N771XW to IDENT. N771XW indicates that they will IDENT.

0021 DRE radar identifies N771XW and clears them direct to Boiler VORTAC (BVT). N771XW's heading and altitude appear to deviate from what was assigned and the Standard Terminal Automation Replacement System (STARS) Minimum Safe Altitude Warning (MSAW) activates. DRE asks N771XW what their heading is. N771XW advises they are turning left to BVT. DRE indicates that they received a low altitude alert and that N771XW's current altitude indicates 2,500' and to fly heading 280. N771XW reads back the 280 heading.

0022 DRE asks N771XW what their heading is. N771XW advises, "My aircraft is a little out of control". DRE asks N771XW if they need any assistance. N771XW does not respond.

0023 DRE asks N771XW their altitude. N771XW says their altitude is "five point five" and asks for a block altitude and a heading of 090. DRE tells N771XW to fly whatever headings they need and to maintain at or above 5,000'.

FAA Form 8020-6-1

18-002-ZAU

N771XW

 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION REPORT OF AIRCRAFT ACCIDENT (Continuation Sheet)	REPORT DATE February 27, 2018	REPORT NO. 18-002-ZAU
	NAME OF REPORTING FACILITY Indianapolis ATCT (IND)	

14. CHRONOLOGICAL SUMMARY OF FLIGHT

0024 DRE assigns N771XW a 090 heading and tells them to advise if they are unable fly it. N771XW indicates that something is really off with the aircraft and asks for a block altitude of 4,500' to 5,000'. DRE instructs N771XW to remain at or above 4,000' on a 090 heading.

0025 DRE tells N771XW of their indicated altitude and flight track and asks their intentions. N771XW advises that they can go back direct to BVT says that they "had a trim issue" and couldn't control the aircraft but was glad he got back to straight and level. DRE issues N771XW a heading of 310 and instructs them to proceed direct to BVT when able. N771XW reads back the instructions.

0026 DRE issues N771XW a climb to 13,000'. N771XW acknowledges the altitude assignment.

0029 DRE asks if N771XW is direct to BVT. N771XW indicates they are direct to BVT. DRE asks N771XW if they are in visual meteorological conditions (VMC) at 8,000'. N771XW indicates that they are in VMC. DRE points out N771XW to Grissom RAPCON (GUS).

0030 DRE instructs N771XW to maintain 13,000' and to contact Chicago ARTCC (ZAU) on frequency 135.75. N771XW acknowledges the frequency change and to maintain 13,000'.

No More Follows

 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION REPORT OF AIRCRAFT ACCIDENT (Continuation Sheet)	REPORT DATE March 27, 2018	REPORT NO. 18-002-ZAU
	NAME OF REPORTING FACILITY Chicago ARTCC (ZAU)	

14. CHRONOLOGICAL SUMMARY OF FLIGHT
February 23, 2018

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME
UNLESS OTHERWISE SPECIFIED

0030 The pilot of N771XW reports on the Chicago ARTCC Sector 57 frequency climbing through 10,600 feet to 13,000 feet. The controller climbs the aircraft to FL200. The pilot correctly reads back the clearance.

0033 The ZAU-57 controller climbs N771XW to FL230. The pilot correctly reads back the clearance.

0036 The ZAU-57 controller clears N771XW direct GRB. The pilot correctly reads back the clearance.

0037 The ZAU-57 controller transfers communications with N771XW to 120.12. The pilot executes the frequency transfer and indicates he is having difficulty controlling the aircraft.

0038 The pilot of N771XW reports a problem with the trim. The controller assigns a 350-degree heading for traffic, but the pilot does not acknowledge. The controller asks the pilot if he is able to navigate or turn the aircraft, but no acknowledgement is received.

0039 The ZAU-46 controller asks the pilot of N771XW to report altitude, but does not receive a reply.

0040 The pilot of SWA5659 attempts to contact the pilot of N771XW via Guard frequency, but does not receive a reply.

0041 The pilot of SWA5659 makes two more attempts to contact the pilot of N771XW via Guard frequency, but does not receive a reply.

0047 The pilot of UAL2132 makes two attempts to contact the pilot of N771XW via Guard frequency, but does not receive a reply.

0057 The pilot of UAL2046 makes two attempts to contact the pilot of N771XW via Guard frequency, but does not receive a reply.

No More Follows

SECTION 3.
Review of Services Memo(s)



Federal Aviation Administration

Memorandum

Date: February 27, 2018

To: Chicago Air Route Traffic Control Center Aircraft Accident File 18-002-ZAU

From: [REDACTED] Robert J. Sawyer, Manager, Indianapolis Airport Traffic Control Tower

Subject: **INFORMATION:** Review of Services Memo
Aircraft Accident, N771XW
Rossville, IN, February 23, 2018

IND ATCT conducted a review of services concerning N771XW 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)
Continuous Data Recording (CDR)
FAA Form 8020-6-1
Flight Progress Strip(s)
STARS Adaptation File
TRACON Plot Playback File (PPB)



Federal Aviation Administration

Memorandum

Date: March 14, 2018

To: Chicago Air Route Traffic Control Center Aircraft Accident File 18-002-ZAU

DAVID J
SCAFFIDI
David Scaffidi, Acting Manager, Chicago Air Route Traffic Control

From: Center

Subject: **INFORMATION:** Review Of Services Memo
Aircraft Accident, N771XW
Rossville, IN, February 23, 2018

ZAU ARTCC conducted a review of services concerning N771XW 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 8020-6
FAA Form 8020-6-1
FAA Form 8020-9
Facility Layout Chart(s)
Flight Progress Strip(s)
Input Output Log Report
Mandatory Occurrence Report
National Track Analysis Report
Personnel Log(s)
Playback Workstation File
SATORI
Surveillance Track History Report
Transcription(s) of Voice Recording(s)
Weather Data
ERAM SAR Files
Covered Event Review

18-002-ZAU
N771XW

SECTION 4.

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

4/23/18 D. S. Rutter

DAILY RECORD OF FACILITY OPERATION				PAGE NO Page 1 of 2
				DATE Feb 22, 2018
LOCATION	IDENTIFICATION	TYPE FACILITY	OPERATING POSITION	CHECKED BY AIR TRAFFIC MANAGER David J. Scaffidi
Aurora, IL	ZAU	ARTCC	OMIC	
UTC TIME	REMARKS			
0600	K. Kurowski on duty, WCLC. ERAM operational, Channel B Operational. All areas combined at OMIC position. NOTAMS reviewed. CFPL: NW Area: 3 water leaks in ceiling. 2 of the water leaks show ceiling tile damage but are not dripping on equipment. The 3rd leak is dripping in the vicinity of Sector 74, FARMM but not on the equipment. Christmas lights unplugged in the Area. Tech Ops notified and discovered a broken water coil in ceiling. The water is shut-off. Area notified. CFPL: Constant static on 243.0 GSH receiver. Also on freq 135.9 and 127.55. Tech ops reports that main lines are down and to use BUEC on 135.9 and 127.55. -- KN			
0615	132.1 OFM. -- KN			
0653	Special Interest Flight, Alert patches and FFLE checked. -- KN			
0911	AIRMET.....GI Message sent and areas notified. -- KN			
1009	A. Mack on duty. -- HO			
1129	Constant static on 243.0 GSH receiver. Also on freq 135.9 and 127.55. Tech ops reports that main lines are down and to use BUEC on 135.9 and 127.55. RTS 2/21/18 @2020z. -- HO			
1213	A.Govan on duty.all areas open. -- SG			
1246	AIRMET.....GI Message sent and areas notified. -- SG			
1520	AIRMET.....GI Message sent and areas notified. -- SG			
1730	F. Karkula on duty. -- FK			
2101	AIRMET.....GI Message sent and areas notified. -- FK			
2159	T. Burleson on duty. NOTAMs Reviewed -- GE			
2302	Watch Check List Complete. -- GE			
2330	AIRMET.....GI Message sent and areas notified. -- GE			
0040	N771XW accident 3 miles SE Delphi airport. 2 confirmed fatalities. MOR: ZAU-M-2018/02/22-0005, Significant Event. SRT Conducted. -- GE			
0320	J. BROWN ON DUTY. -- FL			
0340	All areas combined at OMIC position. -- FL			
0511	AIRMET.....GI Message sent and areas notified. -- GE			
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.		SIGNATURE(S) OF WATCH SUPERVISOR(S) 		

FAA Form 7230-4

18-002-ZAU
N771XW

DAILY RECORD OF FACILITY OPERATION				PAGE NO Page 2 of 2
				DATE Feb 22, 2018
LOCATION	IDENTIFICATION	TYPE FACILITY	OPERATING POSITION	CHECKED BY 
Aurora, IL	ZAU	ARTCC	OMIC	AIR TRAFFIC MANAGER David J. Scaffidi
UTC TIME	REMARKS			
0545	R. Young on duty. WCLC. -- YZ			
0559	COB -- YZ			
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. SIGNATURE(S) OF WATCH SUPERVISOR(S)				

FAA Form 7230-4

18-002-ZAU
N771XW

SECTION 5.
Personnel Log(s)

PERSONNEL LOG		REGION		FACILITY		AREA ID			DATE		
		AGL		ZAU		SOUTHWEST AREA			MONTH: FEB	DAY: 22	YEAR: 2018
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FOR: ALL ABSENCES FROM FACILITY, TRNG, TDY AND NON POSITIONAL DUTIES		
SOUTH, TERRELL (DZ) 05:30 - 13:30	R	05:30	13:30	08+00			00+41	04+41			
WEDEEN, KENNETH (XB) 05:30 - 13:30	R	05:30	13:30	08+00			01+12	04+31			
MCNAIR, KEVIN (KB) 05:35 - 13:35	R	05:35	13:35	08+00			00+40	04+15			
GONNELLA, TODD (TC) 05:48 - 13:48	R	05:48	13:48	08+00			00+49	04+30			
YOUNG, RICKY (YZ) 06:00 - 14:00	R	06:00	14:00	08+00			02+05	05+48			
ESTES, ANTHONY (ZB) 06:30 - 14:30	R	06:30	14:30	08+00			08+00	00+00			
HERNANDEZ, ANTHONY (AF) 06:30 - 14:30	R	06:30	11:45	05+15	02+45	Leave	05+09	00+00			
KINLEY, AUSTIN (AQ) 06:30 - 14:30	R	06:30	14:30	08+00			07+35	00+21			
MCQUIRK, PETER (PQ) 06:30 - 14:30	R	06:30	14:30	08+00			08+00	00+00			
PAUL, KEVIN (KM) 06:30 - 14:30	R	06:30	14:30	08+00			02+04	04+24			
PETERSON, BRADLEY (UI) 06:30 - 14:30	R	06:30	14:30	08+00			00+48	04+08			
ROHDE, KYLE (KA) 06:30 - 14:30	R	06:30	14:30	08+00			08+00	00+00			
WIDICK, LESLIE (EW) 06:30 - 14:30	R	06:30	14:30	08+00			08+00	00+00			
VENTURELLA, MONICA (MA) 06:32 - 14:32	R	06:32	14:32	08+00			08+00	00+00			
BLEES, OTTO (OB) 07:28 - 15:28	R	07:28	15:28	08+00			00+37	04+54			
REID, REINALDO (CY) 07:35 - 15:35	R	07:35	15:35	08+00			00+44	03+01			
BARTLETT, WILLIAM (WB) 07:40 - 15:40	R	07:40	15:40	08+00			01+15	03+53			
PANKEY, RASHEDA (VI) 08:33 - 16:33	R	08:33	16:33	08+00			01+21	04+05			
SUPERVISORY CERTIFICATE	NAME	CODE	TIME ON	TIME OFF	INTLS	NAME	CODE	TIME ON	TIME OFF	INTLS	

THE SIGNATURES ABOVE CERTIFY THAT THE ABOVE ENTRIES ARE CORRECT
(Signatures and times in charge are noted on FAA Form 7230-4, Daily Record of Facility Operation)

PERSONNEL LOG		REGION		FACILITY		AREA ID			DATE		
		AGL		ZAU		SOUTHWEST AREA			MONTH FEB	DAY 22	YEAR 2018
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FOR: ALL ABSENCES FROM FACILITY, TRNG, TDY AND NON POSITIONAL DUTIES		
TARR, KENNETH (WX) 12:30 - 20:30	9 R	12:20 12:30	12:30 20:30	08+10			04+07	02+21			
ALVAREZ, JOSE (AO) 12:40 - 20:40	R	12:40	20:40	08+00			03+48	01+58			
VELASQUEZ, NELSON (NV) 13:00 - 21:00	R	13:00	21:00	08+00			01+00	03+30			
MAYO, RODNEY (YY) 14:45 - 21:45	9 R 9	13:20 14:45 21:45	14:45 21:45 22:00	08+40			00+00	08+26			
SMITH, DANIEL (OW) 13:24 - 21:24	R	13:24	21:24	08+00			01+23	03+27			
RIDGLEY, ARTHUR (IX) 13:28 - 21:28	R	13:28	21:28	08+00			00+39	04+59			
BAMMESBERGER, BRIAN (PZ) 13:30 - 21:30	R 97	13:30 21:30	21:30 22:20	08+50			03+59	02+28			
MENCONI, KENNETH (VM) 13:45 - 21:45	R 97	13:45 21:45	21:45 23:45	10+00			04+27	02+52			
DIRKS, PETER (PI) 14:00 - 22:00	R	14:00	22:00	08+00			08+00	00+00			
KLIMOWSKI, DANIEL (DT) 14:15 - 22:15	R	14:15	22:15	08+00			00+48	04+20			
PRUCAK, ALYSSA (AP) 15:00 - 23:00	R	15:00	23:00	08+00			00+45	05+13			
KASTER, COREY (VD) 16:00 - 00:00	R	16:00	00:00	08+00			00+38	04+35			
MCNAIR, KEVIN (KB) 21:47 - 05:47	R	21:47	05:47	08+00			00+24	04+04			
NELSON, EMILY (VE) 21:56 - 05:56	R	21:56	05:56	08+00			00+10	03+44			
WACHAL, MELISSA (MW) 22:00 - 06:00	R	22:00	06:00	08+00			00+10	03+35			
YOUNG, RICKY (YZ) 23:30 - 06:30	R	23:30	06:30	07+00			01+31	04+59			
MIKELSONS, KRISTINE (QT) 06:45 - 14:45					08+00	Leave	00+00	00+00			
LEFFELMAN, MICHAEL (XI) 07:00 - 15:00					08+00	Leave	00+00	00+00			
SUPERVISORY CERTIFICATE	NAME	CODE	TIME ON	TIME OFF	INTLS	NAME	CODE	TIME ON	TIME OFF	INTLS	

THE SIGNATURES ABOVE CERTIFY THAT THE ABOVE ENTRIES ARE CORRECT
(Signatures and times in charge are noted on FAA Form 7230-4, Daily Record of Facility Operation)

PERSONNEL LOG		REGION		FACILITY		AREA ID			DATE		
		AGL		ZAU		SOUTHWEST AREA			MONTH: FEB	DAY: 22	YEAR: 2018
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FOR: ALL ABSENCES FROM FACILITY, TRNG, TDY AND NON POSITIONAL DUTIES		
BEYER, CHRISTOPHER (BR) 14:00 - 22:00					08+00	Leave	00+00	00+00			
ZACK, AUSTIN (AU) 15:00 - 23:00					08+00	Leave	00+00	00+00			
ATANASOVA, SILVIYA (SV) 15:00 - 23:00					08+00	Leave	00+00	00+00			
FOURNIER, JOEL (MU) RDO		05:30	13:30	08+00			00+28	04+21			
HITCHCOCK, ERIC (EC) RDO	51	13:45	21:45	08+00			00+00	07+50			
WILKE, JEFFREY (WL) NAS											
BARNARD, ALEXANDER (CG) RDO											
BERBLINGER, GARY (BG) RDO											
BERDEBES, NICK (NB) RDO											
CAMPBELL, ELIZABETH (RC) RDO											
CHASE, CHRISTOPHER (CZ) RDO											
COMPTON, NATHANIEL (NC) RDO											
ELLIS, ALISON (QZ) RDO											
GIULIANO, JOHN (GU) RDO											
KNORREK, NATHAN (EK) RDO											
KUROWSKI, KAREN (KN) RDO											
SUPERVISORY CERTIFICATE	NAME	CODE	TIME ON	TIME OFF	INTLS	NAME	CODE	TIME ON	TIME OFF	INTLS	
THE SIGNATURES ABOVE CERTIFY THAT THE ABOVE ENTRIES ARE CORRECT (Signatures and times in charge are noted on FAA Form 7230-4, Daily Record of Facility Operation)											

PERSONNEL LOG		REGION		FACILITY		AREA ID			DATE		
		AGL		ZAU		SOUTH AREA			MONTH: FEB	DAY: 22	YEAR: 2018
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FOR: ALL ABSENCES FROM FACILITY, TRNG, TDY AND NON POSITIONAL DUTIES		
CIEPLIK, RICHARD (MD) 05:30 - 13:30	R	05:30	13:30	08+00			07+01	00+59			
MARSHALL, DONALD (OI) 05:30 - 13:30	R	05:30	13:30	08+00			00+33	04+51			
HOLLARBUSH, KRIS (HS) 05:32 - 13:32	R	05:32	13:32	08+00			02+17	05+03			
SCHULZ, CASSANDRA (CN) 05:57 - 13:57	R	05:57	13:57	08+00			01+03	04+36			
GAULT, CARRIE (AT) 06:00 - 14:00	R	06:00	14:00	09+00			01+31	04+11			
	9	14:00	15:00								
SIPICH, DAVID (DJ) 06:15 - 14:45	R	06:15	11:00	08+00	00+30	Leave	08+30	00+00			
	R	11:30	14:45								
BERRY, ANWAR (AS) 07:00 - 15:00	9	06:22	07:00	08+38			05+59	01+28			
	R	07:00	15:00								
FORD, CODY (FB) 06:30 - 14:30	R	06:30	14:30	08+00			08+00	00+00			
KONG, JOHN (KJ) 06:30 - 14:30	R	06:30	14:30	08+00			05+38	01+28			
MARTZ, ANDREW (AW) 06:30 - 14:30	R	06:30	14:30	08+00			08+00	00+00			
MILLETTE, ALLEN (MM) 06:30 - 14:30	R	06:30	14:30	08+00			07+59	00+00			
PALLAN, QUENTIN (QA) 06:30 - 14:30	R	06:30	14:30	08+00			01+26	03+39			
DEZNAN, PATRICIA (XO) 06:32 - 14:32	R	06:32	14:32	08+00			01+11	04+13			
SIEGEL, BRIAN (SB) 06:36 - 14:36	R	06:36	14:36	08+00			08+00	00+00			
CHALBERG, MATTHEW (CX) 07:30 - 15:30	R	07:30	15:30	08+00			01+19	04+02			
DEWITTE, ALEX (AZ) 08:00 - 16:30	R	08:00	11:00	08+00	00+30	Leave	00+00	00+00			
	R	11:30	16:30								
YOUNG, TIMOTHY (IU) 08:25 - 16:25	R	08:25	12:30	04+05	03+55	Leave	00+28	02+15			
GONZALEZ, MONICA (GM) 11:30 - 19:30	R	11:30	19:30	08+00			00+40	04+17			
SUPERVISORY CERTIFICATE	NAME	CODE	TIME ON	TIME OFF	INTLS	NAME	CODE	TIME ON	TIME OFF	INTLS	

THE SIGNATURES ABOVE CERTIFY THAT THE ABOVE ENTRIES ARE CORRECT
(Signatures and times in charge are noted on FAA Form 7230-4, Daily Record of Facility Operation)

PERSONNEL LOG		REGION		FACILITY		AREA ID			DATE		
		AGL		ZAU		SOUTH AREA			MONTH: FEB	DAY: 22	YEAR: 2018
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FOR: ALL ABSENCES FROM FACILITY, TRNG, TDY AND NON POSITIONAL DUTIES		
WYLAND, GREGORY (GC) 12:30 - 20:30	R	12:30	20:30	08+00			03+21	04+29			
GRIFFITH, CAITLIN (LN) 12:45 - 20:45	R	12:45	20:45	08+00			03+29	03+49			
ZURALES, GEORGE (GZ) 12:58 - 20:58	R	12:58	20:58	08+00			00+50	04+14			
SPAETH, ALEXANDER (TU) 14:30 - 22:30	9	13:30	14:30	09+00			00+27	05+45			
	R	14:30	22:30								
INDURANTE, BENEDICT (IB) 13:32 - 21:32	R	13:32	21:32	08+00			00+36	04+54			
BOWERS, RUSSELL (XZ) 13:56 - 21:56	R	13:56	21:56	08+00			01+03	04+05			
HARRIS, RYAN (RE) 14:30 - 22:30	R	14:30	22:30	08+00			00+36	05+26			
MILDICE, LUKE (LZ) 14:30 - 22:30	R	14:30	22:30	08+00			00+50	03+32			
MICHALOWSKI, JUSTIN (EM) 15:00 - 23:00	R	15:00	23:00	08+00			00+55	04+20			
HALL, JOHN (HJ) 21:34 - 05:34	R	21:34	04:49	07+15	00+45	Leave	00+14	04+14			
CIEPLIK, RICHARD (MD) 22:14 - 06:14	R	22:14	06:14	08+00			00+12	04+01			
BEHRENS, JEFFREY (JM) 05:35 - 13:35					08+00	Leave	00+00	00+00			
IGNACIO, ALLEN (IO) 06:00 - 14:00					08+00	Leave	00+00	00+00			
ZACZEK, FELIX (XF) 06:30 - 14:30					04+00	Leave	00+00	00+00			
					04+00	Leave					
KRUGER, KYLE (KK) 13:45 - 21:45					08+00	Leave	00+00	00+00			
HARGROVE, ADAM (AL) 14:30 - 22:30					08+00	Leave	00+00	00+00			
BEHRENS, JEFFREY (JM) 22:15 - 06:15					08+00	Leave	00+00	00+00			
HOLLARBUSH, KRIS (HS) 22:15 - 06:15					08+00	Leave	00+00	00+00			
SUPERVISORY CERTIFICATE	NAME	CODE	TIME ON	TIME OFF	INTLS	NAME	CODE	TIME ON	TIME OFF	INTLS	

THE SIGNATURES ABOVE CERTIFY THAT THE ABOVE ENTRIES ARE CORRECT
(Signatures and times in charge are noted on FAA Form 7230-4, Daily Record of Facility Operation)

PERSONNEL LOG		REGION		FACILITY		AREA ID			DATE		
		AGL		ZAU		SOUTH AREA			MONTH: FEB	DAY: 22	YEAR: 2018
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS FOR: ALL ABSENCES FROM FACILITY, TRNG, TDY AND NON POSITIONAL DUTIES		
LOEFFLER, THOMAS (LR) RDO	50	05:40	13:40	10+00			01+16	08+20			
	99	13:40	15:40								
BRANCH, BETHANY (BB) RDO	9	06:00	14:00	08+00			01+05	04+43			
BUCHANAN, MICHELLE (RD) RDO	9	13:30	21:30	09+00			04+01	02+41			
	9	21:30	22:30								
GABER, GASTON (GB) RDO	50	22:00	06:00	08+00			00+28	04+06			
LAVEEN, TODD (UA) NAS											
RYAN, MICHAEL (IZ) NAS											
BACON-MCNEAL, DELOREAN (DP) RDO											
BALLARD, JOSHUA (TM) RDO											
BECK, HEATHER (HT) RDO											
CRIBBS, REGGIE (IP) RDO											
HENISON, TRENTON (WA) RDO											
MCWHORTER, JUSTIN (JN) RDO											
PROCHASKA, DAWN (PH) RDO											
SUPERVISORY CERTIFICATE	NAME	CODE	TIME ON	TIME OFF	INTLS	NAME	CODE	TIME ON	TIME OFF	INTLS	
THE SIGNATURES ABOVE CERTIFY THAT THE ABOVE ENTRIES ARE CORRECT (Signatures and times in charge are noted on FAA Form 7230-4, Daily Record of Facility Operation)											

Form 7230-4 (Dec 08)

Official Version

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SECTION 6.

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

POSITION LOG		DATE	
UNIT	POSITION	TIME	DATE
ZAU	56T	H	02/22/2018
0600	0559	56R	R

CODE:
 C - ATC DATA M - Trained/Developmental Monitoring
 S - Supervisor Staff Speed R - Trained/Developmental Certification/
 T - Trained/Developmental Evaluation

FAA Form 7200-10 (Rev. 1/79) 692-96-014-102 Electronic Version/Classified

FOR OFFICIAL USE ONLY Public Availability to be determined under 50 U.S.C. 552

[illegible]

POSITION LOG						
DATE		POSITION		TIME		
DATE	TIME	POSITION	TIME	DATE	TIME	POSITION
2015	5:17	R		02/22/2016		
2015	5:18	R		02/22/2016		
2015	5:19	R		02/22/2016		
2015	5:20	R		02/22/2016		
2015	5:21	R		02/22/2016		
2015	5:22	R		02/22/2016		
2015	5:23	R		02/22/2016		
2015	5:24	R		02/22/2016		
2015	5:25	R		02/22/2016		
2015	5:26	R		02/22/2016		
2015	5:27	R		02/22/2016		
2015	5:28	R		02/22/2016		
2015	5:29	R		02/22/2016		
2015	5:30	R		02/22/2016		
2015	5:31	R		02/22/2016		
2015	5:32	R		02/22/2016		
2015	5:33	R		02/22/2016		
2015	5:34	R		02/22/2016		
2015	5:35	R		02/22/2016		
2015	5:36	R		02/22/2016		
2015	5:37	R		02/22/2016		
2015	5:38	R		02/22/2016		
2015	5:39	R		02/22/2016		
2015	5:40	R		02/22/2016		
2015	5:41	R		02/22/2016		
2015	5:42	R		02/22/2016		
2015	5:43	R		02/22/2016		
2015	5:44	R		02/22/2016		
2015	5:45	R		02/22/2016		
2015	5:46	R		02/22/2016		
2015	5:47	R		02/22/2016		
2015	5:48	R		02/22/2016		
2015	5:49	R		02/22/2016		
2015	5:50	R		02/22/2016		
2015	5:51	R		02/22/2016		
2015	5:52	R		02/22/2016		
2015	5:53	R		02/22/2016		
2015	5:54	R		02/22/2016		
2015	5:55	R		02/22/2016		
2015	5:56	R		02/22/2016		
2015	5:57	R		02/22/2016		
2015	5:58	R		02/22/2016		
2015	5:59	R		02/22/2016		
2015	6:00	R		02/22/2016		
2015	6:01	R		02/22/2016		
2015	6:02	R		02/22/2016		
2015	6:03	R		02/22/2016		
2015	6:04	R		02/22/2016		
2015	6:05	R		02/22/2016		
2015	6:06	R		02/22/2016		
2015	6:07	R		02/22/2016		
2015	6:08	R		02/22/2016		
2015	6:09	R		02/22/2016		
2015	6:10	R		02/22/2016		
2015	6:11	R		02/22/2016		
2015	6:12	R		02/22/2016		
2015	6:13	R		02/22/2016		
2015	6:14	R		02/22/2016		
2015	6:15	R		02/22/2016		
2015	6:16	R		02/22/2016		
2015	6:17	R		02/22/2016		
2015	6:18	R		02/22/2016		

POSITION LOG						
DATE OF TEST		TESTER'S SIGNATURE		GRADE		
DATE	TIME	STR	R	02/22/2018		
WIND	WAVE	WAVE	WAVE	WAVE - WAVE		
2105	VI	2147	C			
2148	DT	2245	C			
2246	RV	2256	C			
2257	OW	2309	C			
2310	VM	0031	C			
0032	PZ	0053	C			
0054	AO	0116	C			
0117	VD	0213	C			
0214	IX	0318	C			
0319	VD	0342	C			
0343		0559		51R		R

CODE: M = Trainee/Developmental Monitoring
 S = Supervisor/Staff Spot E = Trainee/Developmental Certification
 T = Trainee/Developmental Evaluation

FAA Form 7230-10 A-1, NVR 3951-00-304-101 Electronic Version/QualForm
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[illegible]

POSITION LOG						
DATE OF TEST		TEST CENTER		TEST DATE		
CAU	46D	RA		02/22/2018		
TEST ID		TEST ID		TEST ID		
0600	0930	44D	RA			
0931	0931	46R	R			
0932	1134	44D	RA			
1135	1901	46R	R			
1902	GC	1933	C			
1902	LN	1933	T			
1934	GC	2019	C			
1934	LN	2019	T			
2020		2107		46R	R	
2108	GC	2225	C			
2108	LN	2225	T			
2226		2313		46R	R	
2314	GC	0001	C			
2314	LN	0001	T			

CODE:

C - ATC/ATA M - Trainee/Developmental Monitoring

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

T - Trainee/Developmental

FAA Form 7230-1 (Rev. 11/91) N/A 5010-106-01-0101 Backboard Version 1.0 (Revised)

FOR FEDERAL USE ONLY. Public Availability is determined under 5 U.S.C. 552

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POSITION LOG						
DATE OF TEST		TEST CENTER/TESTER		TEST DATE		
2AU	46R		R	02/22/2018		
TEST #	TEST #	TEST #	TEST #	TEST #		TEST #
				TEST #	TEST #	
0600		1134		44R		R
1135	MD	1159	C			
1200	BB	1317	C			
1318	OI	1414	C			
1415	CN	1502	C			
1503	OI	1549	C			
1550	AT	1632	C			
1633	OI	1717	C			
1718	CN	1803	C			
1804	QA	1846	C			
1847	CN	1933	C			
1934	TU	2029	C			
2030	LZ	2114	C			
2115	TU	2203	C			

CODE

C - ATC/ATA

S - Supervisor/Staff Spec

T - Trained/Developmental

M - Trained/Developmental Monitoring

N - Trained/Developmental Certification

E - Evaluation

FAA Form 7230-10 (Rev. 11-10) 7230-10 (Rev. 11-10)

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18-002-ZAU
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POSITION LOG					
FAA USE ONLY	POSITION INFORMATION		DATE		
FAA USE ONLY	POSITION	DATE	TIME	DATE	
ZAU	46R	R	02/22/2018		
FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	
2204	RE	2240	C		
2241	OZ	2324	C		
2325	XZ	0018	C		
0019	RD	0045	C		
0046	GC	0150	C		
0151	LZ	0233	C		
0234	IB	0306	C		
0307	XZ	0319	C		
0320	LZ	0337	C		
0338	EM	0415	C		
0416	MD	0436	C		
0437	GB	0532	C		
0533		0559		44R	R

CODE:
 C - ATCS/ATA M - Trainee/Developmental Monitoring
 S - Supervisor/Staff Spec R - Trainee/Developmental Certification/
 T - Trainee/Developmental Evaluation
 FAA Form 7230-10 (Rev. 1/15) 9003-00-004-902 Electronic Version (Read/Print)
 FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

POSITION LOG					
FAA USE ONLY	POSITION INFORMATION		DATE		
FAA USE ONLY	POSITION	DATE	TIME	DATE	
ZAU	46T	R	02/22/2018		
FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	
0600		0559		46R	R

CODE:
 C - ATCS/ATA M - Trainee/Developmental Monitoring
 S - Supervisor/Staff Spec R - Trainee/Developmental Certification/
 T - Trainee/Developmental Evaluation
 FAA Form 7230-10 (Rev. 1/15) 9003-00-004-902 Electronic Version (Read/Print)
 FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

POSITION LOG					
FAA USE ONLY	POSITION INFORMATION		DATE		
FAA USE ONLY	POSITION	DATE	TIME	DATE	
ZAU	47D	RA	02/22/2018		
FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	
0600		0930		44D	RA
0931		0931		47R	R
0932		1134		44D	RA
1135		1807		47R	R
1808	AS	1928	C		
1929	KJ	2006	C		
2007		0533		47R	R
0534		0559		44D	RA

CODE:
 C - ATCS/ATA M - Trainee/Developmental Monitoring
 S - Supervisor/Staff Spec R - Trainee/Developmental Certification/
 T - Trainee/Developmental Evaluation
 FAA Form 7230-10 (Rev. 1/15) 9003-00-004-902 Electronic Version (Read/Print)
 FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

POSITION LOG					
FAA USE ONLY	POSITION INFORMATION		DATE		
FAA USE ONLY	POSITION	DATE	TIME	DATE	
ZAU	47R	R	02/22/2018		
FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	FAA USE ONLY	
0600		1134		44R	R
1135		1200		46R	R
1201	AT	1332	C		
1333	CX	1430	C		
1431	IU	1515	C		
1516	CX	1608	C		
1609	IU	1703	C		
1704	CX	1751	C		
1752	IU	1826	C		
1827	XO	1932	C		
1933	QA	1955	C		
1956	CX	2050	C		
2051	RD	2152	C		
2153	IB	2242	C		

CODE:
 C - ATCS/ATA M - Trainee/Developmental Monitoring
 S - Supervisor/Staff Spec R - Trainee/Developmental Certification/
 T - Trainee/Developmental Evaluation
 FAA Form 7230-10 (Rev. 1/15) 9003-00-004-902 Electronic Version (Read/Print)
 FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

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POSITION LOG							
DATE/TIME	POSITION/LOCATION	DATE	NAME				
ZAM	45R	R	02/22/2018				
TIME	NAME	TIME	NAME	TIME	NAME	TIME	NAME
0600		1136		44R		R	
1137	HS	1259	C				
1200	CN	1328	C				
1329	QA	1424	C				
1425	AT	1457	C				
1458	XO	1548	C				
1549	CN	1634	C				
1635	QA	1719	C				
1720	BS	1806	C				
1807	QI	1836	C				
1837	CX	1904	C				
1905	GZ	2015	C				
2016	GM	2106	C				
2107	GZ	2155	C				

CODE:
 C - ATC/GSTA
 S - Supervisor/Staff Spec.
 T - Trained/Developmental Monitoring
 M - Trained/Developmental Certification
 E - Experienced
 I - Incomplete

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POSITION LOG					
POSITION NO.	POSITION CATEGORY		DATE		
DATE	43D	RA	02/22/2018		
TIME	NAME	TIME	NAME	TIME	NAME
0600	0559	43R	R		
0600	0930	44D	RA		
0931	0931	43R	R		
0932	1159	44D	RA		
1200	1226	43R	R		
1227	1235	44D	RA		
1236	1249	43R	R		
1250	1434	44D	RA		
1435	1519	43R	R		
1520	1637	44D	RA		
1638	1721	43R	R		
1722	1858	44D	RA		
1859	0533	43R	R		
0534	0559	44D	RA		

CODE: C=ATC DATA M=Transit/Developmental Monitoring
 S=Supervisor Staff Spec R=Transit/Developmental Certification
 T=Transit/Developmental Evaluation

FAA Form 7230-10a Use N/A 800-862-054-192 Electronic Version/Download
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POSITION LOG						
DATE		POSITION		NAME		STATUS
2/22	2018	437		II		02/22/2018
						NAME (Last, First)
0600		0559		43R		R
CODE: M = Trainee/Developmental Monitoring C = ATCC/ATA S = Supervisor/Staff Spec T = Trainee/Developmental I = Evaluation F&A Form 7250-10-01-01 1-800-963-9634-902 Barcode Version 03/04/07 FOR OFFICIAL USE ONLY Public Availability to be determined under 50 U.S.C. 552						

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18-002-ZAU
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[illegible]

POSITION LOG						
Date of Birth		Official Name		Date of Birth		
ZAD	44P	R	02/22/2018			
1st	2nd	3rd	4th	5th	6th	7th
0600	UA	0750	C			
0751	IP	0930	C			
0931	IZ	1129	C			
1130	OI	1233	C			
1234	QA	1243	C			
1244	XO	1403	C			
1404	BB	1510	C			
1511	QA	1552	C			
1553	BB	1638	C			
1639	XO	1734	C			
1735	QM	1849	C			
1850	BB	1934	C			
1935	RD	1959	C			
2000	XZ	2034	C			

CODE:

C - ATCSATA

S - Supervisory Staff Spec

T - Trainee/Developmental

M - Trainee/Developmental Monitoring

R - Trainee/Developmental Certification Evaluation

W - Withdrawn

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POSITION LOG						
DATE	POSITION	TIME	TIME	TIME	TIME	TIME
2018	44R	R	02/22/2018			
2035	RE	2121	C			
2122	XZ	2236	C			
2237	RD	2323	C			
2324	RR	0135	C			
0136	GZ	0209	C			
0210	EM	0319	C			
0320	TU	0339	C			
0340	HT	0559	C			

CODE:
 C = ATC/ATA
 S = Supervisor/Staff Spec.
 D = Development/Developmental
 M = Training/Developmental Monitoring
 B = Training/Developmental Certification
 E = Evaluation
 F&B Form 7250-10-4-4c 11/10 3001-00-010-010 11/10/10 Version 01/10/10

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POSITION LOG									
DATE OF ENTRY				DATE OF REVIEW					
ZAU		SOCIC		O		02/22/2018			
NO. IN	NO. IN	NO. IN	NO. IN	NO. IN		NO. IN		NO. IN	
						NO. IN		NO. IN	
0600				1300			SOCISC		O
1301	MD		1334		C				
1335			1729				SOCISC		O
1730	AT		1817		C				
1838	OI		1924		C				
1925	AT		1939		C				
1940	IB		2105		C				
2106	EM		2153		C				
2154	LZ		2249		C				
2250	TU		0018		C				
0019			0020				SOCISC		O
0021	SM		0107		C				
0108	TU		0319						
0320			0559				SOCISC		O

CODE:
 C - ATC/ATA
 S - Supervisory Spec
 T - Trainee/Developmental
 M - Trainee/Developmental Monitoring
 R - Trainee/Developmental Certification
 Evaluation
 For OFFICIAL USE ONLY Public Availability is determined under 18 U.S.C. 352

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18-002-ZAU
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[illegible]

POSITION LOG						
OFFICE OF		SUPERVISOR		DATE		
ZRU	SIR	R	02/22/2018			
TIME IN	TIME OUT	TIME IN	TIME OUT	DATE	TIME IN	TIME OUT
0600	MS	0622	C			
0623	WL	0634	C			
0635	MS	0744	C			
0745	VE	1129	C			
1130	DZ	1229	C			
1230	RM	1325	C			
1326	TC	1428	C			
1429	UI	1501	C			
1502	KB	1550	C			
1551	UI	1636	C			
1637	RM	1734	C			
1735	XB	1904	C			
1905	CY	1907	C			
1908	TV	1943	C			

CODE:
 C - ATCSATA M - Trainee Developmental Monitoring
 S - Supervisor/Sup Spec R - Trainee Developmental Certification
 T - Trainee Developmental Evaluation

FAA Form 723-012 is also known as 803-00-000-010-010. Electronic version (dotmfaa)

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POSITION LOG							
DATE OF ENTRY		OFFICIAL'S NAME AND GRADE		UNIT		LOCATION	
ZAU	SIR	R	02/22/2019				
						(NAME OF AGENCY)	
TIME	ARRIVAL	DEPART	TO	FROM	TYPE	REMARKS	INITIALS
1944	PZ	2028	C				
2029	NV	2114	C				
2135	IX	2313	C				
2314	PZ	2335	C				
2336	DT	2357	C				
2358	WX	0037	C				
0038	AO	0047	C				
0048	DT	0133	C				
0134	WX	0147	C				
0148	AO	0221	C				
0222	DT	0345	C				
0346	VD	0411	C				
0412	MW	0559	C				

CODE:

D = ATC/ATA M = Trainee/Developmental Monitoring
 S = Supervisor/Staff Spec. N = Trainee/Developmental Certification/
 Trainee/Developmental Evaluation
 FBA Form T220-15-A-Rev. 1-08 (REV 06-04-04-01) Electronic Version (Optional)
 FOR OFFICIAL USE ONLY Public Availability to be determined under E.O. 8.0. 803

[illegible]

18-002-ZAU
N771XW

POSITION LOG					
DATE	TIME	LOCATION	STATUS	REMARKS	INITIALS
2AU	SSA	A		02/22/2018	
0600	0559	SSR	R		

CODE:

C - ATCU/ATA
 S - Supervisor/ISAR Biped
 T - Trainee/Developmental

M - Trainee/Developmental Monitoring
 R - Trainee/Developmental Certification/
 Evaluation

FAA Form 7230-10-6-000 N/A 892-90-034-0-00 Electronic Version (04/04/06)
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POSITION LOG						
DATE/TIME		CIRCUIT/STATION		MODE	REMARKS	
DATE	TIME	CALL	FREQ	TYPE	TO	FROM
2021	00:00	55P		R	02/22/2018	
					TO	FROM
0600	WL	0620	C			
0622		0903			51R	R
0902	WL	1130	C			
1131	XB	1144	C			
1145	KB	1156	C			
1157	TC	1246	C			
1247	KB	1349	C			
1350	WB	1435	C			
1436	V1	1614	C			
1615	MJ	1725	C			
1726	DZ	1901	C			
1902	UI	1949	C			
1950	VM	2101	C			
2102	AO	2113	C			

CODE:
C = C-ATC/STATION
S = Supervisor/Staff Spec.
T = Trainee/Student Operator

M = France Developmental Monitoring
R = Training Developmental Certification
E = Evaluation

FAA Form 7230-10-01a 9/90 903-00-214-002 Electronic Version (09/04/00)

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POSITION LOG									
POSITION ID		OFFICE OF ORIGIN		OFFICE OF ASSIGNMENT		STATUS			
IAW	SWOSC	OFFICE OF ORIGIN	OFFICE OF ASSIGNMENT	DATE	REASON	DATE	REASON	DATE	REASON
0600			1257			Closed			
1258	MIJ	1402	C						
1403	XB	1514	C						
1515		1716				SWOSC			O
1717	WB	1818	C						
1819	MIJ	1905	C						
1906	WB	1927	C						
1928	OW	1951	C						
1952		2059				SWOSC			O
2100	OW	2118	C						
2119	WX	2131	C						
2132		0559				SWOSC			O

CODE:
 C - ATCS/ATA
 S - Supervisor/ISAF Agent
 T - TransDev/Developmental
 M - TransDev/developmental Monitoring
 B - TransDev/developmental Certification
 E - Evaluation
 B - Review/revision/developmental

FAA Form 7250-10-0-04-01 NTSB 9603-004-0100

FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

[illegible]

18-002-ZAU
N771XW

SECTION 7.
Facility Layout Chart(s)

[illegible]

SECTION 8.

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

Flight Progress Strip(s)

FPS Chicago ARTCC February 23, 2018 UTC

N771XW C441/G T301 G258 45 45 001 03	DNV	39	280	JOT 076 044	KEYE MEARZ6 BVT KGRB	6646
	097	00				
	047					
	0028					
	BVT					

SECTION 9.
Transcription of Voice Recording(s)



Federal Aviation Administration

Memorandum

Date: March 28, 2018
To: Aircraft Accident File 18-002-ZAU
From: Chicago Air Route Traffic Control Center
Subject: **INFORMATION**: Partial Transcript
Aircraft Accident, N771XW
Rossville, IN, February 23, 2018

This transcription covers the Chicago Air Route Traffic Control Center (ARTCC) 57 R position for the time period from February 23, 2018, 0000 UTC, to February 23, 2018, 0132 UTC.

I certify that the following is a true transcription of the recorded conversations pertaining to the subject Accident involving N771XW.

CYNTHIA P
SAMDAL

Digitally signed by
CYNTHIA P SAMDAL
Date: 2018.03.28
07:48:19 -05'00'

Paige Samdal
Support Specialist
Chicago ARTCC

Agencies Making Transmissions	Abbreviations
N771XW	N771XW
Chicago ARTCC, Sector 57 Radar Position	ZAU57R
Chicago ARTCC, Sector 46 Radar Position	ZAU46R
Unknown Transmission Source	UNKNOWN
Chicago ARTCC, Sector 45 Radar Position	ZAU45R
Southwest Airlines Co., SWA5659	SWA5659
Grissom RAPCON	GUS
United Air Lines, Inc., UAL2132	UAL2132
United Air Lines, Inc., UAL2046	UAL2046

0000
(0001-0029)
0030

0030:57 N771XW and chicago seven seven one xray whiskey uh ten point six
climbing to one three thirteen thousand

0031

18-002-ZAU
N771XW

0031:04 ZAU57R november seven seven one xray whiskey chicago center climb
and maintain flight level two zero zero

0031:10 N771XW flight level two zero zero one xray whiskey
0032
0033

0033:16 ZAU57R november seven seven one xray whiskey climb maintain
flight level two three zero

0033:21 N771XW climb maintain flight level two three zero one xray
whiskey

0033:31 ZAU57R attention all aircraft hazardous weather information
airmet lake eerie ohio available hiwas flight service
frequencies
0034
0035
0036

0036:54 ZAU57R november one xray whiskey direct green bay

0036:58 N771XW direct green bay thanks one xray whiskey
0037

0037:03 ZAU46R uh boiler

0037:04 ZAU46R uh danville apreq one xray whiskey direct green bay

0037:07 ZAU46R i'm sorry say it one more time

0037:08 ZAU57R apreq one xray whiskey direct green bay

0037:10 ZAU46R that's approved

0037:11 ZAU57R p z

0037:12 ZAU46R r d

0037:14 ZAU57R november one xray whiskey contact chicago center one two
one point two seven have a good night

0037:19 N771XW all right chicago twenty one twenty seven one xray whiskey
good night
0038
0038:39 ZAU46R hey hey danville uh yeah one xray whiskey just made a hard
turn i'm not sure why
0038:43 ZAU57R did he i just wanted to make sure everything is all right
0038:45 ZAU46R yeah he's he's (unintelligible)
0038:46 UNKNOWN ma'am he has an aircraft control problem with his trim
0039
0039:53 ZAU57R danville
0039:54 ZAU45R danville this is uh roberts calling on behalf of boiler
that november uh seven seven one xray whiskey had some
sort of emergency going on it looks like he's descending
i don't know if he's got control of the aircraft
0040:03 ZAU57R okay all right
0040:04 ZAU45R okay
0040:05 ZAU57R um
0040:06 ZAU45R can can uh
0040:07 ZAU57R you can use my airspace
0040:08 ZAU45R say again
0040:09 ZAU57R you can use my airspace i'll are you talking to him
0040:10 ZAU45R uh boiler's talking to him right now i think she's trying
to get some communication with him
0040:14 ZAU57R all right p z

0040:56 SWA5659 seven seven one xray whiskey how do you copy on guard

0041:11 SWA5659 a t c is looking for seven seven one xray whiskey do you hear

0041:29 SWA5659 seven seven one xray whiskey
0042
0043

0043:19 ZAU57R grissom approach danville

0043:23 GUS grissom

0043:24 ZAU57R hey uh i don't know how uh pertinent this will be but i was working an aircraft um see near the one uh india nine airport

0043:35 GUS okay

0043:36 ZAU57R in the flight levels and then he seems to have dropped off my scope we have no um we're not in communication with him at all and uh i don't depict any any primaries or anything out there so i just wanted to advise you i don't know how severe it is or where he is but we're not depicting him and he may potentially be in your airspace or

0043:56 GUS okay uh what's what's his code

0043:58 ZAU57R uh he is not on a code but he is six six four six was his last known code

0044:03 GUS okay

0044:04 ZAU57R i don't see any primary out there but his closest last known position was uh delphi municipal one india niner

0044:12 GUS copy uh i'll uh i'll keep a look out

0044:14 ZAU57R all right thank you

0044:15 GUS yep

0044:16 ZAU57R p z

0044:17 GUS (unintelligible)

0045

0046

0047

0047:07 UAL2132 aircraft november seven seven xray whiskey united twenty one thirty two do you copy

0047:22 UAL2132 aircraft seven seven xray whiskey united twenty one thirty two do you copy

0048

(0049-0052)

0053

0053:38 ZAU57R all right this is the danville sector um position relief briefing outages and equipment our's is working fine special activities airspace uh we'll get back to this aircraft situation no nordos uh again we'll get back to this situation flow and metering is normal the weather and pireps the winds are um kind of strong out of the southwest but i've had no ride complaints uh no icing reports or uh deviations traffic deadwood point out uh envoy thirty five sixty six is flying overhead uh to try and locate november seven seven one xray whiskey you're familiar with the situation aircraft appeared to lose control and disappeared off the scope um supervisors all know about it and uh all uh measures are being taken right now to try and find him so we are talking to no one and just watching him that's it a o p z

0055

0056

0057

0057:34 UAL2046 and november seven seven one xray uh whiskey this is united uh twenty forty six on guard

0057:51 UAL2046 (unintelligible) united twenty forty six we're uh calling for november seven seven one xray whiskey if you read me uh center wants you on one three four uh decimal two

0059

0100

0101

0101:24 ZAU57R all right welcome to the danville sector outages and
equipment none special use airspace none no nordos flow
and metering fine airport and approach information fine
weather and pireps (unintelligible) coordination and
traffic (unintelligible) point out aircraft they are
investigating (unintelligible) and investigation

0102
(0103-0131)
0132

End of Transcript



Federal Aviation Administration

Memorandum

Date: March 28, 2018
To: Aircraft Accident File 18-002-ZAU
From: Chicago Air Route Traffic Control Center
Subject: **INFORMATION**: Partial Transcript
Aircraft Accident, N771XW
Rossville, IN, February 23, 2018

This transcription covers the Chicago Air Route Traffic Control Center (ARTCC) 46 R position for the time period from February 23, 2018, 0007 UTC, to February 23, 2018, 0131 UTC.

I certify that the following is a true transcription of the recorded conversations pertaining to the subject Accident involving N771XW.

CYNTHIA P
SAMDAL

Digitally signed by
CYNTHIA P SAMDAL
Date: 2018.03.28
07:47:51 -05'00'

Paige Samdal
Support Specialist
Chicago ARTCC

Agencies Making Transmissions	Abbreviations
Chicago ARTCC, Sector 46 Radar Position	ZAU46R
Chicago ARTCC, Sector 57 Radar Position	ZAU57R
N771XW	N771XW
Chicago ARTCC, Sector 34 Radar Position	ZAU34R
Unknown Transmission Source	UNKNOWN
Southwest Airlines, Co., SWA5659	SWA5659
United Air Lines Inc., UAL2132	UAL2132
Indianapolis ARTCC, Sector 75	ZID75R
United Air Lines Inc., UAL2046	UAL2046

0007
(0008-0036)
0037
0037:03 ZAU46R uh boiler

18-002-ZAU
N771XW

0037:04 ZAU57R uh danville apreq one xray whiskey direct green bay

0037:07 ZAU46R i'm sorry say it one more time

0037:08 ZAU57R apreq one xray whiskey direct green bay

0037:10 ZAU46R that's approved

0037:11 ZAU57R p z

0037:12 ZAU46R r d

0037:54 N771XW center i'm gonna need um to get ahold of this aircraft again here for a second

0038:00 ZAU46R i'm sorry missed that who was that

0038:02 N771XW yeah this is one xray whiskey (unintelligible) aircraft uh my trims kind of going out on me

0038:07 ZAU46R november one xray whiskey uh i need you to fly heading uh three five zero for traffic

0038:18 ZAU34R i am logan

0038:19 ZAU46R logan point out one xray whiskey uh he just made a hard turn for some reason i'm turning him back here and i'm not climbing yet i'm about to climbing to twenty five only

0038:27 ZAU34R okay er uh seven seven one xray whiskey climbing to flight level two five zero is point out approved

0038:30 ZAU46R thanks

0038:31 ZAU34R c h

0038:32 ZAU46R november seven seven one xray whiskey uh did you have a navigation problem

0038:39 ZAU46R hey hey danville uh yeah one xray whiskey just made a hard turn i'm not sure why

0038:43 ZAU57R did he i just wanted to make sure everything is all right

0038:45 ZAU46R yeah he's he's (unintelligible)

0038:46 UNKNOWN ma'am he has an aircraft control problem with his trim

0038:50 ZAU46R november seven seven uh xray whiskey uh are you able to navigate or turn the aircraft

0039:02 ZAU46R november seven seven one xray whiskey uh report altitude

0039:15 UNKNOWN (unintelligible)

0039:28 UNKNOWN roll wings level wings level wings level

0039:34 UNKNOWN step on the sky step on the

0039:42 ZAU46R november one xray whiskey

0039:59 ZAU46R november one xray whiskey chicago

0040:11 ZAU46R november seven seven one xray whiskey if you hear chicago ident

0040:56 SWA5659 seven seven one xray whiskey how do you copy on guard
0041

0041:11 SWA5659 a t c is looking for seven seven one xray whiskey do you hear

0041:29 SWA5659 seven seven one xray whiskey

0042

0042:22 ZAU46R november seven seven one xray whiskey chicago

0042:28 ZAU46R november seven seven one xray whiskey on guard uh if you
hear chicago come up on one two one point two seven

0043

0044

0045

0045:38 ZAU46R this guy just went down um he's gone

0046

0047

0047:07 UAL2132 aircraft november seven seven xray whiskey united twenty
one thirty two do you copy

0047:22 UAL2132 aircraft seven seven xray whiskey united twenty one thirty
two do you copy

0048

0048:39 ZID75R boiler rushville

0048:47 ZAU46R boiler

0048:48 ZID75R hey i just have a couple quick questions did you ever get
a hold of that seven seven one xray whiskey

0048:50 ZAU46R negative

0048:51 ZID75R oh you didn't okay because this air wisconsin says
(unintelligible) maybe lost his controls

0049

0049:01 ZAU46R okay wilco r d

0049:02 ZID75R okay (unintelligible)

0049:03 ZAU46R g c

0050

(0051-0056)

0057

0057:34 UAL2046 and november seven seven one xray uh whiskey this is
united uh twenty forty six on guard

0057:51 UAL2046 (unintelligible) united twenty forty six we're uh calling

for november seven seven one xray whiskey if you read me
uh center wants you on one three four uh decimal two

0059

0100

0100:38 ZAU46R november seven seven one xray whiskey how do you hear
chicago center

0101

(0102-0130)

0131

End of Transcript



Federal Aviation Administration

Memorandum

Date: March 28, 2018

To: Aircraft Accident File 18-002-ZAU

From: Chicago Air Route Traffic Control Center

Subject: **INFORMATION**: Partial Transcript
Aircraft Accident, N771XW
Rossville, IN, February 23, 2018

This transcription covers the Chicago Air Route Traffic Control Center (ARTCC) 45 R position for the time period from February 23, 2018, 0009 UTC, to February 23, 2018, 0129 UTC.

I certify that the following is a true transcription of the recorded conversations pertaining to the subject Accident involving N771XW.

CYNTHIA P
SAMDAL

Digitally signed by
CYNTHIA P SAMDAL
Date: 2018.03.28
07:46:35 -05'00'

Paige Samdal
Support Specialist
Chicago ARTCC

Agencies Making Transmissions	Abbreviations
Chicago ARTCC, Sector 57 Radar Position	ZAU57R
Chicago ARTCC, Sector 45 Radar Position	ZAU45R
Southwest Airlines, Co., SWA5659	SWA5659
United Air Lines, Inc., UAL2132	UAL2132
United Air Lines, Inc., UAL2046	UAL2046

0009
(0010-0038)
0039

0039:53 ZAU57R danville

0039:54 ZAU45R danville this is uh roberts calling on behalf of boiler
that november uh seven seven one xray whiskey had some
sort of emergency going on it looks like he's descending
i don't know if he's got control of the aircraft

18-002-ZAU
N771XW

0040:03 ZAU57R okay all right

0040:04 ZAU45R okay

0040:05 ZAU57R um

0040:06 ZAU45R can can uh

0040:07 ZAU57R you can use my airspace

0040:08 ZAU45R say again

0040:09 ZAU57R you can use my airspace i'll are you talking to him

0040:10 ZAU45R uh boiler's talking to him right now i think she's trying
to get some communication with him

0040:14 ZAU57R all right p z

0040:45 ZAU45R southwest fifty six fifty nine uh can you do me a quick
favor

0040:48 SWA5659 yes sir

0040:49 ZAU45R broadcast on guard for november seven seven one xray
whiskey and see if you get a response

0040:55 SWA5659 will do

0040:56 SWA5659 seven seven one xray whiskey how do you copy on guard

0041:11 SWA5659 a t c is looking for seven seven one xray whiskey do you
hear

0041:29 SWA5659 seven seven one xray whiskey

0041:40 SWA5659 i made three calls on guard for uh seven seven one xray whiskey and no response

0041:46 ZAU45R thank you sir uh southwest fifty six fifty nine contact kansas city center one three five point zero five

0041:51 SWA5659 thirty five zero five southwest uh fifty six fifty nine
0042

0042:49 ZAU45R november seven seven one xray whiskey united er november seven seven one xray whiskey chicago center broadcasting on guard do you hear chicago center

0043
(0044-0045)
0046

0046:33 ZAU45R united twenty one thirty two

0046:36 UAL2132 united twenty one thirty two go

0046:38 ZAU45R could you do me a favor uh and broadcast in the blind on guard frequency for a november seven seven one xray whiskey and see if you get a response

0046:49 UAL2132 all right seven seven one xray whiskey will do

0046:52 ZAU45R thank you
0047

0047:07 UAL2132 aircraft november seven seven xray whiskey united twenty one thirty two do you copy

0047:22 UAL2132 aircraft seven seven xray whiskey united twenty one thirty two do you copy

0047:36 UAL2132 and united twenty one thirty two no joy

0047:38 ZAU45R thank you sir
0048
(0049-0052)
0053

0053:14 ZAU45R november seven seven one xray whiskey november seven seven one xray whiskey chicago center broadcasting on guard do you acknowledge chicago center

0054

(0055-0056)

0057

0057:04 ZAU45R united twenty forty six

0057:07 UAL2046 united twenty forty six go ahead

0057:09 ZAU45R uh if you wouldn't mind uh broadcasting out on guard and
see if you can get a response from a november seven seven
one xray whiskey

0057:20 UAL2046 okay we'll give it a try on uh guard november seven seven
one xray whiskey

0057:34 UAL2046 and november seven seven one xray uh whiskey this is
united uh twenty forty six on guard

0057:51 UAL2046 (unintelligible) united twenty forty six we're uh calling
for november seven seven one xray whiskey if you read me
uh center wants you on one three four uh decimal two

0058:15 UAL2046 hey chicago united uh twenty forty six uh no luck on uh
november seven seven one xray whiskey

0058:23 ZAU45R united twenty forty six i thank you for trying contact
chicago center one two seven point three two

0058:29 UAL2046 two seven three two united twenty forty six good night

0059

(0100-0128)

0129

End of Transcript

SECTION 10.
Weather Products

Chicago ARTCC

Weather Products 2/23/2018 UTC

METAR KLAF 222354Z 10011KT 10SM OVC016 07/05 A3035 RMK AO2 SLP282 T00670050 10072
20061 50000

METAR KLAF 230054Z 12003KT 10SM OVC015 07/05 A3038 RMK AO2 SLP292 T00720050

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

CYNTHIA P
SAMDAL

Digitally signed by CYNTHIA P
SAMDAL
Date: 2018.03.12 16:02:09
-05'00'

Paige Samdal
Support Specialist
Chicago ARTCC



Federal Aviation Administration

Memorandum

Date: 12 March 2018

To: Chicago ARTCC Accident File 18-002-ZAU

CYNTHIA P
SAMDAL

Digitally signed by CYNTHIA P
SAMDAL
Date: 2018.03.12 14:32:22 -05'00'

From: Paige Samdal, Quality Assurance Specialist, Chicago Air Route Traffic Control Center

Subject: **INFORMATION**: Certification of Weather Information

I certify the attached copy of the METARs, PIREPs and SIGMETs originated from the Chicago Center Weather Service Unit is an accurate copy of the original.

18-002-ZAU
N771XW

Weather for incident 0040z 02/23/2018: 15NE LAF

Nearest SFC Observations/Metars:

KLAF 230130Z 12005KT 2 1/2SM BR OVC011 06/06 A3038 RMK AO2 T00610056
KLAF 230110Z 13007KT 10SM OVC014 07/05 A3038 RMK AO2 T00670050
KLAF 230054Z 12003KT 10SM OVC015 07/05 A3038 RMK AO2 SLP292 T00720050
KLAF 222354Z 10011KT 10SM OVC016 07/05 A3035 RMK AO2 SLP282 T00670050 10072 20061
50000
KLAF 222254Z 09011KT 10SM OVC018 07/05 A3035 RMK AO2 SLP281 T00720050

KMCX 230115Z AUTO 09006KT 10SM OVC011 05/04 A3039 RMK AO2 T00480035
KMCX 230055Z AUTO 10006KT 10SM OVC011 05/03 A3039 RMK AO2 T00500033
KMCX 230035Z AUTO 10010G16KT 10SM OVC013 05/03 A3037 RMK AO2 T00510034
KMCX 230015Z AUTO 11010G15KT 080V140 10SM OVC015 05/04 A3036 RMK AO2 T00530035

Airmets:

WAUS43 KNCI 222045
WA3S
-CHIS WA 222045
AIRMET SIERRA UPDT 4 FOR IFR AND MTN OBSCN VALID UNTIL 230300

AIRMET IFR...ND SD NE KS MN IA MO WI LM LS MI IL IN KY
FROM 50SE INL TO 20WSW BAE TO 20E GIJ TO FWA TO CVG TO HNN TO 50WSW
BKW TO 30S LOZ TO RZC TO OSW TO 30E LBL TO 30W LBF TO 60NW ANW TO
40NE DPR TO 60WSW GFK TO 50SE INL
CIG BLW 010/VIS BLW 3SM PCPN/BR/FG. CONDS CONTG BYD 03Z THRU 09Z.

WAUS43 KNCI 222045
WA3T
-CHIT WA 222045
AIRMET TANGO UPDT 3 FOR TURB AND LLWS VALID UNTIL 230300

AIRMET TURB...ND SD NE KS MN IA MO WI LM LS MI LH IL IN KY
FROM 30N INL TO YQT TO SSM TO YVV TO 30SE ECK TO FWA TO CVG TO 50SSE
PXV TO 30NNW RZC TO OSW TO 50W LBL TO GLD TO BFF TO 70SW RAP TO
40NNE MOT TO 30N INL
MOD TURB BTN FL180 AND FL350. CONDS CONTG BYD 03Z THRU 09Z.

PIREPS:

Aircraft Reports Data

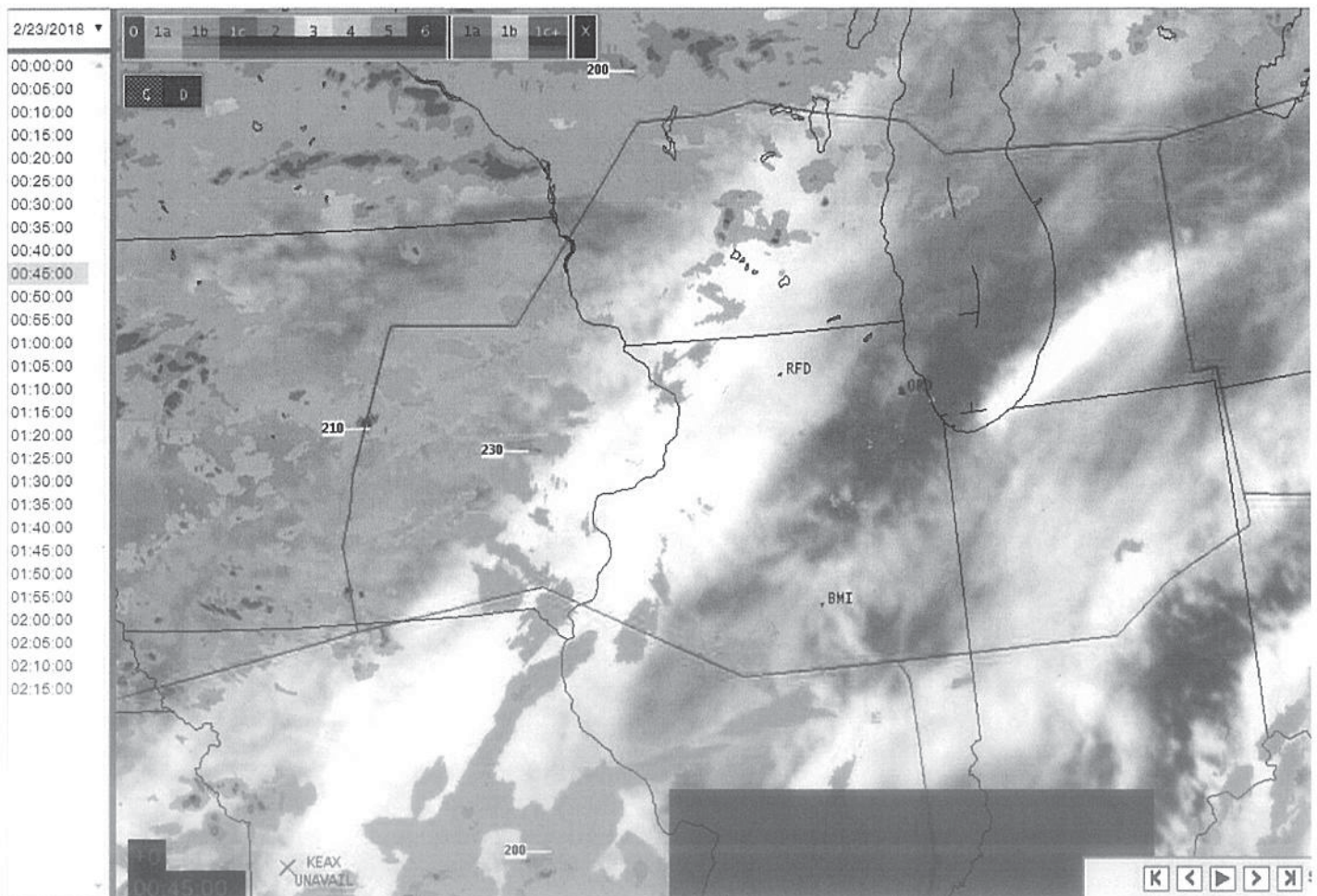
AIREPCenter ID: **KLAF** Distance: **100 SM (161 KM)** Format: ☒ Raw ☐ Decoded | Type: **All** Age: **past 3 hours**

Data at: 0224 UTC 23 Feb 2018

OKK UA /OV OKK/TM 2325/FL180/TP NMRS/TB MOD CHOP 180-240
HUF UA /OV BVT/TM 0028/FL130/TP E145/TB LGT CHOP
IND UA /OV VHP160010/TM 0105/FLDURGD/TP C25M/SK 004 OVC UNK
IND UA /OV VHP160010/TM 0105/FLDURGD/TP C25M/SK 004 OVC UNK
IND UA /OV VHP160010/TM 0105/FLDURD/TP C25M/SK 004 OVC UNK
IND UA /OV VHP160010/TM 0105/FLDURD/TP C25M/SK 004 OVC UNK
IND UA /OV VHP160010/TM 0105/FLDURD/TP C25M/SK 004 OVC UNK
EYE UA /OV VHP /TM 0112 /FL450 /TP C680 /TA M60 /WV 23898KT
IKK UA /OV EON/TM 0126/FL160/TP CRJ7/TB MOD CHOP 160-180

NO SIGMETS

SATELLITE/RADAR





Map: ☒ Light ☐ Dark ☐ Simple Data layers: ☐ Satellite ☐ Radar	Plot Options: All ☒ Temp ☒ Wind ☒ Alt ☒ Vis ☒ Wx ☒ Cover ☒ Ceil None ☒ Dew ☒ Wgst ☒ Id All Data density ☐ Metric ☐ Hover 1.5 Scale	Data Options: Latest Time ☐ Decoded ☐ TAF	Overlays: ☐ Highways ☐ Top Jetroutes ☒ ARTCC/FIR Bounds
--	---	---	---

Wind

 Calm
  15kt
  60kt
  25G30kt

Flt Cat: ☒ MVFR ☐ IFR ☐ LIFR

Pirep Message Report

Generated By : admws1

Pireps Found : 5

Report Start Time	Report End Time	Report Run Time	Environment	Release
2018-02-22 23:00:00	2018-02-23 01:00:00	2018-02-23 14:04:58	PROD	7_3

Pirep: 2751384

Source	Creation Time	Cancel Time	Expiration Date	Average Retrieval Times
74	2018-02-23 00:34:18	None	2018-02-23 02:34:18	00:53:16
Pirep Message:UA /OV RFD310035 /TM 0029 /FL 250 /TP B757 /TB LGT OCNL MOD 250-140		Sector Distribution:[520-1, 74, PIREP] Forwarded To:[EC1, EA-OS, 92, 64, CWSU, OMIC, NW-OS, 77, EC2, 63, 62, 60, 75, WE-OS, DC, RC, 83, AC, TMU-OS, NO-OS]		

Position Details

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
CWSU	CWSU	None	None	2018-02-23 00:35:49	None	None	None
NW-OS	NW-OS	None	None	2018-02-23 00:35:49	None	None	None
77	77	2018-02-23 01:11:52	None	2018-02-23 00:35:49	2018-02-23 01:11:52	None	None
63	63	None	None	2018-02-23 00:35:49	None	None	None
62	62	None	None	2018-02-23 00:35:49	None	None	None
60	60	2018-02-23 02:19:50	None	2018-02-23 00:35:49	2018-02-23 02:19:50	None	None
DC	DC	None	None	2018-02-23 00:35:49	None	None	None
RC	TMU-OS RC	None	None	2018-02-23 00:35:49	None	None	None
TMU-OS	TMU-OS	2018-02-23 01:44:56	None	2018-02-23 00:35:49	2018-02-23 01:44:56	None	None
90	92 90	2018-02-23 00:39:24	None	2018-02-23 00:35:49	2018-02-23 00:39:24	None	None
EC1	EC1	None	None	2018-02-23 00:35:49	None	None	None
EA-OS	EA-OS	None	None	2018-02-23 00:35:49	None	None	None
92	92	None	None	2018-02-23 00:35:49	None	None	None
520-1	520-1	None	None	2018-02-23 00:34:18	None	None	None
64	63 64	2018-02-23 01:07:15	None	2018-02-23 00:35:49	2018-02-23 01:07:15	None	None
OMIC	OMIC	None	None	2018-02-23 00:35:49	None	None	None
EC2	EC2	None	None	2018-02-23 00:35:49	None	None	None

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
74	74 77	2018-02-23 02:16:12	None	2018-02-23 00:35:49	2018-02-23 02:16:12	None	None
94	92 94	None	None	2018-02-23 00:35:49	None	None	None
75	75	None	None	2018-02-23 00:35:49	None	None	None
WE-OS	WE-OS	2018-02-23 02:35:01	None	2018-02-23 00:35:49	2018-02-23 02:35:01	None	None
83	83	2018-02-23 00:50:48	None	2018-02-23 00:35:48	2018-02-23 00:50:48	None	None
AC	AC	None	None	2018-02-23 00:35:49	None	None	None
NO-OS	NO-OS	None	None	2018-02-23 00:35:49	None	None	None
PIREP	PIREP	2018-02-23 00:35:01	None	2018-02-23 00:34:18	2018-02-23 00:35:01	None	None

Pirep: 2751383

Source	Creation Time	Cancel Time	Expiration Date	Average Retrieval Times
26	2018-02-23 00:28:43	None	2018-02-23 02:28:43	00:46:51
Pirep Message:UA /OV PMM360020 /TM 0028 /FL 200 /TP E75S /TB MOD CHOP 300-200		Sector Distribution:[520-1, 26, PIREP] Forwarded To:[EC1, EA-OS, CWSU, OMIC, EC2, 22, 62, 27, 25, NE-OS, DC, 82, RC, AC, TMU-OS, NO-OS]		

Position Details

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
EC1	EC1	None	None	2018-02-23 00:29:45	None	None	None
EA-OS	EA-OS	None	None	2018-02-23 00:29:45	None	None	None
520-1	520-1	None	None	2018-02-23 00:28:43	None	None	None
81	82 81	2018-02-23 01:57:04	None	2018-02-23 00:29:45	2018-02-23 01:57:04	None	None
OMIC	OMIC	None	None	2018-02-23 00:29:45	None	None	None
CWSU	CWSU	None	None	2018-02-23 00:29:45	None	None	None
EC2	EC2	None	None	2018-02-23 00:29:45	None	None	None
27	27	None	None	2018-02-23 00:29:45	None	None	None
62	62	None	None	2018-02-23 00:29:45	None	None	None
26	26	2018-02-23 00:28:50	None	2018-02-23 00:28:43	2018-02-23 00:28:50	None	None
25	25	2018-02-23 01:41:06	None	2018-02-23 00:29:45	2018-02-23 01:41:06	None	None
NE-OS	NE-OS	None	None	2018-02-23 00:29:45	None	None	None
DC	DC	None	None	2018-02-23 00:29:45	None	None	None
RC	TMU-OS RC	None	None	2018-02-23 00:29:45	None	None	None
AC	AC	None	None	2018-02-23 00:29:45	None	None	None
PIREP	PIREP	2018-02-23 00:29:03	None	2018-02-23 00:28:43	2018-02-23 00:29:03	None	None
TMU-OS	TMU-OS	2018-02-23 01:44:56	None	2018-02-23 00:29:45	2018-02-23 01:44:56	None	None
NO-OS	NO-OS	None	None	2018-02-23 00:29:45	None	None	None

Pirep: 2751382

Source	Creation Time	Cancel Time	Expiration Date	Average Retrieval Times
57	2018-02-23 00:28:38	None	2018-02-23 02:28:38	00:35:06
Pirep Message:UA /OV BVT /TM 0028 /FL 130 /TP E145 /TB CONT LGT CHOP		Sector Distribution:[520-1, 57, PIREP] Forwarded To:[EC1, CWSU, SE-OS, OMIC, 43, EC2, 44, SW-OS, SO-OS, 32, 50, 58, DC, RC, AC, TMU-OS]		

Position Details

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
EC1	EC1	None	None	2018-02-23 00:30:18	None	None	None
520-1	520-1	None	None	2018-02-23 00:28:38	None	None	None
OMIC	OMIC	None	None	2018-02-23 00:30:18	None	None	None
SE-OS	SE-OS	None	None	2018-02-23 00:30:18	None	None	None
CWSU	CWSU	None	None	2018-02-23 00:30:18	None	None	None
EC2	EC2	None	None	2018-02-23 00:30:18	None	None	None
43	43	None	None	2018-02-23 00:30:18	None	None	None
44	44	2018-02-23 01:17:48	None	2018-02-23 00:30:18	2018-02-23 01:17:48	None	None
55	58 55	None	None	2018-02-23 00:30:18	None	None	None
SW-OS	SW-OS	None	None	2018-02-23 00:30:18	None	None	None

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Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
35	32 35	None	None	2018-02-23 00:30:18	None	None	None
SO-OS	SO-OS	None	None	2018-02-23 00:30:18	None	None	None
32	32	None	None	2018-02-23 00:30:18	None	None	None
50	50	None	None	2018-02-23 00:30:18	None	None	None
58	58	2018-02-23 01:23:15	None	2018-02-23 00:30:18	2018-02-23 01:23:15	None	None
57	57	2018-02-23 00:28:42	None	2018-02-23 00:28:38	2018-02-23 00:28:42	None	None
DC	DC	None	None	2018-02-23 00:30:18	None	None	None
RC	TMU-OS RC	None	None	2018-02-23 00:30:18	None	None	None
AC	AC	None	None	2018-02-23 00:30:18	None	None	None
PIREP	PIREP	2018-02-23 00:29:03	None	2018-02-23 00:28:38	2018-02-23 00:29:03	None	None
TMU-OS	TMU-OS	2018-02-23 01:44:56	None	2018-02-23 00:30:18	2018-02-23 01:44:56	None	None

Pirep: 2751381

Source	Creation Time	Cancel Time	Expiration Date	Average Retrieval Times
33	2018-02-22 23:59:51	None	2018-02-23 01:59:51	00:58:34
Pirep Message:UA /OV FWA /TM 2359 /FL 430 /TP C75 /TB LGT CHOP		Sector Distribution:[520-1, 33, PIREP] Forwarded To:[EC1, EA-OS, 88, OMIC, CWSU, SE-OS, EC2, 46, 36, SO-OS, 34, 89, 85, DC, 47, RC, AC, 83, TMU-OS, 84]		

Position Details

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
EC1	EC1	None	None	2018-02-23 00:10:08	None	None	None
EA-OS	EA-OS	None	None	2018-02-23 00:10:08	None	None	None
520-1	520-1	None	None	2018-02-22 23:59:51	None	None	None
81	89 81	2018-02-23 01:57:04	None	2018-02-23 00:10:08	2018-02-23 01:57:04	None	None
OMIC	OMIC	None	None	2018-02-23 00:10:08	None	None	None
SE-OS	SE-OS	None	None	2018-02-23 00:10:08	None	None	None
CWSU	CWSU	None	None	2018-02-23 00:10:08	None	None	None
EC2	EC2	None	None	2018-02-23 00:10:08	None	None	None
46	46	None	None	2018-02-23 00:10:08	None	None	None
36	33 36	None	None	2018-02-23 00:10:08	None	None	None
SO-OS	SO-OS	None	None	2018-02-23 00:10:08	None	None	None
34	34	None	None	2018-02-23 00:10:08	None	None	None
DC	DC	None	None	2018-02-23 00:10:08	None	None	None
33	33	2018-02-23 01:48:45	None	2018-02-22 23:59:51	2018-02-23 01:48:45	None	None
85	85	2018-02-23 00:33:52	None	2018-02-23 00:10:08	2018-02-23 00:33:52	None	None
RC	TMU-OS RC	None	None	2018-02-23 00:10:08	None	None	None
47	47	None	None	2018-02-23 00:10:08	None	None	None

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Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
AC	AC	None	None	2018-02-23 00:10:08	None	None	None
83	83 84	2018-02-23 00:26:52	None	2018-02-23 00:10:08	2018-02-23 00:26:52	None	None
PIREP	PIREP	2018-02-23 00:00:11	None	2018-02-22 23:59:51	2018-02-23 00:00:11	None	None
TMU-OS	TMU-OS	2018-02-23 01:44:56	None	2018-02-23 00:10:08	2018-02-23 01:44:56	None	None

Pirep: 2751380

Source	Creation Time	Cancel Time	Expiration Date	Average Retrieval Times
32	2018-02-22 23:27:43	None	2018-02-23 01:27:43	00:17:00
Pirep Message:UA /OV OKK010010 /TM 2325 /FL 180 /TP ALL /TB CONT MOD CHOP 180-240		Sector Distribution:[520-1, 32, PIREP] Forwarded To:[EC1, EA-OS, SE-OS, CWSU, OMIC, EC2, 44, 37, 46, 35, SW-OS, 36, SO-OS, 34, 57, DC, RC, AC, 83, TMU-OS]		

Position Details

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
EC1	EC1	None	None	2018-02-22 23:28:50	None	None	None
EA-OS	EA-OS	None	None	2018-02-22 23:28:50	None	None	None
520-1	520-1	None	None	2018-02-22 23:27:43	None	None	None

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
OMIC	OMIC	None	None	2018-02-22 23:28:51	None	None	None
CWSU	CWSU	None	None	2018-02-22 23:28:50	None	None	None
SE-OS	SE-OS	None	None	2018-02-22 23:28:50	None	None	None
EC2	EC2	None	None	2018-02-22 23:28:50	None	None	None
44	44	2018-02-22 23:38:48	None	2018-02-22 23:28:50	2018-02-22 23:38:48	None	None
37	37	None	None	2018-02-22 23:28:50	None	None	None
46	46	2018-02-23 00:02:31	None	2018-02-22 23:28:50	2018-02-23 00:02:31	None	None
35	32 35	2018-02-22 23:33:16	None	2018-02-22 23:28:50	2018-02-22 23:33:16	None	None
SW-OS	SW-OS	None	None	2018-02-22 23:28:50	None	None	None
36	36	None	None	2018-02-22 23:28:50	None	None	None
32	32	2018-02-22 23:55:02	None	2018-02-22 23:27:43	2018-02-22 23:55:02	None	None
SO-OS	SO-OS	None	None	2018-02-22 23:28:50	None	None	None
34	34	2018-02-22 23:30:35	None	2018-02-22 23:28:50	2018-02-22 23:30:35	None	None
57	57	2018-02-22 23:29:24	None	2018-02-22 23:28:50	2018-02-22 23:29:24	None	None
DC	DC	None	None	2018-02-22 23:28:50	None	None	None
RC	TMU-OS RC	None	None	2018-02-22 23:28:51	None	None	None
AC	AC	None	None	2018-02-22 23:28:50	None	None	None

Position ID	Sectors	Message Display Time	Recall Time	Notification Time	Retrieval Time	Cancel Notification Time	Cancel Retrieval time
83	83	2018-02-23 00:26:52	None	2018-02-22 23:28:50	2018-02-23 00:26:52	None	None
PIREP	PIREP	2018-02-22 23:28:04	None	2018-02-22 23:27:43	2018-02-22 23:28:04	None	None
TMU-OS	TMU-OS	None	None	2018-02-22 23:28:51	None	None	None

SECTION 11.

Other

UTC (Zulu) Time Conversion Chart

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

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

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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