



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

October 1, 2014

Attachment 6 – Air Traffic Control

OPERATIONAL FACTORS

DCA14MA081

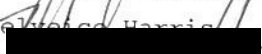


Federal Aviation Administration

Memorandum

Date: April 03, 2014

To: Mark D. Ward
Director, Eastern Service Center

From: 
Manager, Philadelphia Airport Traffic Control Tower

Subject: **INFORMATION**: Certification Statement
Aircraft Accident, AWE1702
Philadelphia, PA, March 13, 2014

I certify that air traffic aircraft accident package, PHL-ATCT-0135, has been reviewed and is complete.

AIRCRAFT ACCIDENT PACKAGE
PHL-ATCT-0135
AWE1702, A320
March 13, 2014, 2225 UTC
Destroy: September 13, 2016 UTC

SECTION 1.
Table of Contents

TABLE OF CONTENTS

SECTION 1.	Table of Contents
SECTION 2.	FAA Form 8020-6, Report of Aircraft Accident, and FAA Form 8020-6-1, Report of Aircraft Accident, (Continuation Sheet)
SECTION 3.	Certified Index(es)
SECTION 4.	FAA Form(s) 7230-4, Daily Record of Facility Operation
SECTION 5.	Personnel Log(s)
SECTION 6.	FAA Form(s) 7230-10, Position Log, or automated equivalent
SECTION 7.	Facility Layout Chart(s)
SECTION 8.	Airport Diagram
SECTION 9.	Flight Progress Strip(s) and/or In-Flight Contact Record(s)
SECTION 10.	Transcription of Voice Recording(s)
SECTION 11.	FAA Form(s) 8020-3, Facility Accident/Incident Notification Record
SECTION 12.	FAA Form(s) 8020-26, Personnel Statement
SECTION 13.	Weather Products

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:

April 3, 2014

Report Number:

PHL-ATCT-0135

REPORT OF AIRCRAFT ACCIDENT

Name of Reporting Facility:

Philadelphia ATCT (PHL)

1. Aircraft Identification and Type:

AWE1702, A320

2. Date/Time of Accident (GMT):

March 13, 2014; 2225 UTC

3. Location of Accident:

Philadelphia, PA; PHL Runway 27L and Taxiway Sierra 10

4. Nature of Accident:

Aircraft nose wheel collapsed on departure roll.

5. Type of Flight:

IFR Flight Plan

6. Flight Crew

Name	Position	Address (City and State)	Uninjured	Injured	Fatality	Unknown
Lynda Fleming	Pilot	Unknown, Unknown	X			
John Powell	Pilot	Pompano Beach, FL	X			

7. Passenger Data : (If available, list names, addresses, extent of injuries and other information on continuation sheet.)

Number Aboard

149

Number Uninjured

147

Number Injured

2

Number Fatalities

0

8. Aircraft Damage:

Unknown

9. Property Damage:

None

10. Operating Status of Navigational Aids/Lights/Communications:

Normal

11. Weather Data

Conditions in Accident Area at Time of Accident:

PHILADELPHIA, PA, PHILADELPHIA INTL ARPT METAR - 1754 EDT: automated, wind three zero zero at one four, gusts two two knots, visibility one zero statute miles, clear, temperature zero, dew point minus two zero, altimeter two nine nine seven

Report Just Prior to Accident:

PHILADELPHIA, PA, PHILADELPHIA INTL ARPT METAR - 1754 EDT: automated, wind three zero zero at one four, gusts two two knots, visibility one zero statute miles, clear, temperature zero, dew point minus two zero, altimeter two nine nine seven

Date/Time

03/13/2014

21:54 UTC

First Report Subsequent to Accident:

PHILADELPHIA, PA, PHILADELPHIA INTL ARPT METAR - 1854 EDT: automated, wind two nine zero at one eight, gusts two five knots, visibility one zero statute miles, clear, temperature minus six, dew point two one, altimeter three zero zero two

Date/Time

03/13/2014

22:54 UTC

12. ATS Personnel Involved

Name	Facility	Operating Position	Check If Eyewitness
Christopher Perks *(MM)	PHL ATCT	GCE GC	
Shaun Regan (SR)	PHL ATCT	GCE GC	
Matthew J. Rogers (MR)	PHL ATCT	LW LC	X
Michael P. Donahue (HO)	PHL ATCT	LE LC	
James Clothier (OL)	PHL ATCT	OST FM	
Daniel P. Mullin (DM)	PHL ATCT	OMIC SI	
*Operating Initials			

13. Signature of Facility Manager

Melveice Harris



DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
REPORT OF AIRCRAFT ACCIDENT
(Continuation Sheet)

REPORT DATE

April 07, 2014

REPORT NO.

PHL-ATCT-0135

NAME OF REPORTING FACILITY

Philadelphia ATCT (PHL)

14. CHRONOLOGICAL SUMMARY OF FLIGHT

March 13, 2014

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME
UNLESS OTHERWISE SPECIFIED

- 2208 AWE1702 contacted Philadelphia Ground Control (GC) at Spot 2 with information Yankee. GC instructed AWE1702 to taxi to Runway 27L via Taxiway Yankee and to hold short of the Runway 9L approach.
- 2213 GC instructed AWE1702 to proceed via Taxiway Yankee and Sierra and to monitor Tower.
- 2219 Tower Controller (LCW) advised AWE1702 that they were number 6 for departure.
- 2221 LCW advised AWE1702 was next following Southwest.
- 2222 LCW instructed AWE1702 to line up and wait on Runway 27L.
- 2223 LCW cleared AWE1702 for takeoff on Runway 27L heading 230 degrees.
- 2224 LCW asked if AWE1702 was on frequency. AWE1702 advised aborting takeoff. LCW advised AWE1702 that smoke was observed and asked if they were still on runway.
- 2225 LCW advised dispensing emergency vehicles. AWE1702 stated that everything seemed to be okay. LCW again advised vehicles in route. AWE1702 said left engine, left engine.
- 2226 LCW requested information that could be passed to emergency response vehicles. AWE1702 asked if tower saw smoke out of left engine. LCW replied yes. AWE1702 asked is it bad. An unknown aircraft replied yes.
- 2229 LCW asked for fuel status and souls on board. AWE1702 replied 149 souls and 24,000 pounds of fuel. AWE1702 also advised that they did evacuate the aircraft.

No More Follows


SECTION 3.
Certified Index(es)

CERTIFIED INDEX

March 24, 2014

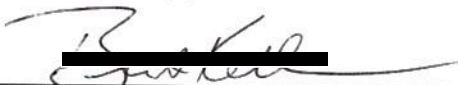
I certify that the following originals are on file in this office.

FAA Form 7230-4
FAA Form 7230-10
FAA Form 8020-6
FAA Form 8020-6-1
FAA Form 8020-9
FAA Form 8020-3
FAA Form 8020-26
Personnel Log(s)
Certified Original Copy(ies) of Voice Recording(s)
Certified Working Copy(ies) of Voice Recording(s)
Facility Layout Chart(s)
Airport Diagram
Continuous Data Recording (CDR)
Transcription(s) of Voice Recording(s)
Flight Progress Strip(s)
Mandatory Occurrence Report
Certified Weather Data


[REDACTED]
Melveice Harris
Manager, Philadelphia ATCT

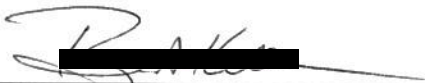
SECTION 4.

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

DAILY RECORD OF FACILITY OPERATION				PAGE NO
				Page 1 of 2
LOCATION Philadelphia, PA				IDENTIFICATION PHL
				TYPE FACILITY ATCT
UTC TIME				REMARKS
				REMARKS
0400	B KELLER ON OSIC. ILS27R L 26 IN USE. RWY35 NOT AVAILABLE. ASR-9 CHNL/A MODE-S CHNL/A. ASR-11 CHNL/B. SCDI/SSR CHNL/B. FUSED MODE IN USE. WCLC. CFPL: ASR-11 SYSTEM ALARM, SCDI CHANNEL A AMBER, CHANNEL B NOW SELECTED. AOCC & AF NOTIFIED. CFPL: ASR-9 ALERT DUE TO DRIVE MOTOR#1 INOP. -- KR			
0422	UPS1055 B757 PIGA RWY27L DUE TO WINDSHEAR, LANDED NORMAL NEXT ATTEMPT. -- KR			
0448	RWY27L CLSD. -- KR			
0516	RWY27L OPEN. -- KR			
0942	AWE1026 A321 PIGA DUE TO WINDSHEAR. -- KR			
0950	PNE, TTN STAFFED, OPERATIONAL @ 1000Z. RIVER WATCH ON DUTY. -- KR			
1015	C ROHAN ON OMIC ABOVE NOTED. -- RO			
1016	ILG TOWER STAFFED TO OPEN AT 1030Z. -- RO			
1121	WCLC. -- RO			
1125	DALR CHECKS COMPLETE. -- RO			
1446	CIGA: AWI3779 CRJ2 RWY27R DUE TO TRAFFIC LANDING RWY27R(DH8). -- RO			
M 1447	PHL-M-2014/03/13-0001 -- AWI3779 -- RO -60 around within 1/2 mile			
E 1502	ASR-9 STBY CHNL OTM TIL 18Z -- RO			
1528	SINGLE FEED DUE TO TURB AT 5000. -- RO			
1658	EJMI CIGA RWY 27R OUTSIDE 1/2NM FINAL. TIED WITH DH8 TRAFFI LANDING RWY 35. -- DM			
1715	ASR-9 STBY CHNL RTND. -- RO			
1833	D. MULLIN ON OMIC. -- DM			
1934	AWI4006 PIGA RWY 27R OUTSIDE 1/2NM FINAL. PILOT REPORTED WIND SHEAR AS THE REASON. -- DM			
1955	40 MINUTE INBOUND CARGO SHIP. -- DM			
2015	PDT4169 PIGA RWY 35 OUTSIDE 1/2NM FINAL. PILOT REPORTED A STUCK MIKE AS THE REASON (NO LANDING CLEARANCE). TOWER BELIEVES THE STUCK MIKE WAS PDT4169. -- DM			
2028	10 MINUTE INBOUND CONTAINER SHIP. -- DM			
2037	SHIP CLEAR. -- DM			
2043	15 TO 20 MINUTE SHIP NOTICE OFF FT. MIFFLIN. -- DM			
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

PHL-ATCT-0135
AWE1702

DAILY RECORD OF FACILITY OPERATION				PAGE NO
				Page 2 of 2
LOCATION Philadelphia, PA				IDENTIFICATION
				PHL
TYPE FACILITY				OPERATING POSITION
				ATCT
watch desk				CHECKED BY
				Melveice Harris
AIR TRAFFIC MANAGER				Melveice Harris
UTC TIME	REMARKS			
2054	SHIP CLEAR. -- DM			
2121	WCLC. -- DM			
M 2311	PHL-M-2014/03/13-0002 -- AWE1702 -- DM - Possible a/c accident			
0117	TWY Y SOUTH OF TWY S CLSD FOR DEBRIS REMOVAL. -- OL			
0315	B. KELLER ON OSIC, ABOVE NOTED. -- KR			
0359	COB. -- KR			
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

PHL-ATCT-0135
AWE1702

SECTION 5.
Personnel Log(s)



Federal Aviation Administration

Memorandum

Date: March 14, 2014

To: Aircraft Accident Package PHL-ATCT-0135

From: Melveice Harris, Manager, Philadelphia ATCT
[Handwritten signature]

Prepared by: Sharon Colvin

Subject: Personnel Log Amendment
Aircraft Accident, AWE1702
Philadelphia, PA March 13, 2014

I certify that the following personnel were not scheduled to work on March 13, 2014.

Diane E. Zimmerman
Latrice T. Watson
Claire Mileca
David Millman
John Bracken
Carolyn Atchley
Jenifer McCoy
Joseph K. Wagner
Richard A. Rand
Anthony J. Frolio
Gaetano Chetta
Jessica Iresabal
William J. Obrien
Anthony C. Tisdall
Levi D. Benson

Michael Clarke
Eva H. Stoneback
David J. Dryer
Matthew C. Dunn
Michael S. Ross
Jason F. Boyde
Dennis E. Kelly
Adam F. Cohen
Andrew R. Derecola
Shaun P. Greene
Raymond P. Farrell
Christopher D. Iresabal
Joseph Didonato
Adrienne Morgan
Daniel Meyers

Andrew Scherer
David B. Giberson
Daniel Phillips
William J. Ryan
David E. Beck
Corey C. Grafe
Don Chapman
Patrick T. Ream
Daniel Abbott
Luther Dismel
Bryan Redner
Richard M. Weaver
Charles Jacques
Stephen Russo
Sean Lynch

ART - Sign On Log

3/14/2014 8:50:20 AM

PHL

Selected Report Dates: 3/12/2014 10:00:00 PM - 3/13/2014 10:00:00 PM

OPINIT	NAME	SHIFT/TYPE	SIGN- IN	SIGN - OUT	LV	OJT	CIC	TOS
VG	GRICE, VIVIEN A	22:15-06:15/R	22:15:00	06:15:00			4+15	
	REMARKS							
MD	MCDONALD, PATRICK J.	22:15-06:15/R	22:15:00	06:15:00				
	REMARKS							
OT	NAGY, SCOTT M	22:15-06:15/R	22:15:00	06:15:00			3+30	
	REMARKS							
BE	BERNHARDT, BRIAN J.	22:30-06:30/R	22:30:00	06:30:00				
	REMARKS							
KR	KELLER, BRUCE A	22:30-06:30/R	22:30:00	06:30:00				
	REMARKS							
FJ	MAZURE, DAVID A	02:00-12:00/R	02:00:00					
	REMARKS							
CE	MCCHORD, KENNETH J	05:30-13:30/R	05:30:00	13:30:00				
	REMARKS							
BA	BONILLA, ISRAEL J.	05:45-13:45/R	05:45:00	13:45:00			0+9	
	REMARKS							
CW	CORNETT, WALTER J, III	05:45-13:45/R	05:45:00	13:45:00				
	REMARKS							
DJ	MATTERN, DAVID J.	05:45-13:45/R	05:45:00	13:45:00				
	REMARKS							
MO	OLIVAS, MARK	05:45-13:45/R	05:45:00	13:30:00	0+15		0+11	
	REMARKS							
JJ	SWEISTHAL, KARL R	05:45-13:45/R	05:45:00	13:45:00				
	REMARKS							
AA	ANTUNA, DINA R.	05:45-15:45/R	05:45:00	15:45:00			3+1	
	REMARKS							
BB	BUPP, WILLIAM E.	05:50-13:50/R	05:50:00	13:50:00				
	REMARKS							
EP	KIRNER, ERIC P	05:50-15:50/R	05:50:00	15:50:00				

PHL

Selected Report Dates: 3/12/2014 10:00:00 PM - 3/13/2014 10:00:00 PM

OPINIT	NAME	SHIFT/TYPE	SIGN- IN	SIGN - OUT	LV	OJT	CIC	TOS
		REMARKS						
RC	DOAK, RICHARD	05:55-13:55/R	05:55:00	13:55:00		1+1		
		REMARKS						
EO	DUNN, MATTHEW C.	06:00-14:00/R	06:00:00	14:00:00	8+0			
		REMARKS						
UD	LOVICK, SCOTT A	06:00-14:00/R	06:00:00	14:00:00				
		REMARKS						
RO	ROHAN, CALVIN	06:00-14:00/R	06:15:00	14:00:00	0+15			
		REMARKS						
GT	TURNBULL, GERALD E	06:00-14:00/R	06:00:00	13:00:00	1+0		0+14	
		REMARKS						
JA	WATSON, LATRICE T.	06:00-14:00/R	06:00:00	14:00:00	8+0			
		REMARKS						
ME	ROSS, MICHAEL S	06:00-16:00/R	06:00:00	16:00:00	10+0			
		REMARKS						
NH	HENDRICKSON, NATHAN B	06:45-14:45/R	06:45:00	14:45:00				
		REMARKS						
AW	LITTLE, ARMON	06:45-14:45/R	06:45:00	14:45:00				
		REMARKS						
JM	MARMOL, JOSE D.	06:45-14:45/R	06:45:00	14:45:00				
		REMARKS						
XY	MURDOCK, JOHN	06:45-14:45/R	06:45:00	14:45:00				
		REMARKS						
AJ	PAN, JENNIFER L.	06:45-14:45/R	06:45:00	11:30:00	3+15			
		REMARKS						
PW	PAYNTER, JEFFREY R	06:45-14:45/R	06:45:00	14:45:00		1+3		
		REMARKS						
RS	STRIBBLE, RYAN C.	06:45-14:45/R	06:45:00	14:45:00				
		REMARKS						
MP	PARR, MATTHEW	07:00-15:00/R	07:00:00	15:00:00			0+45	
		REMARKS						

PHL

Selected Report Dates: 3/12/2014 10:00:00 PM - 3/13/2014 10:00:00 PM

OPINIT	NAME	SHIFT/TYPE	SIGN- IN	SIGN - OUT	LV	OJT	CIC	TOS
GP	PEARCY, GEORGE	07:00-15:00/R	07:00:00	15:00:00				
	REMARKS							
TT	SMITH, TERESA	07:00-15:00/R	07:30:00	15:00:00	0+30		0+41	
	REMARKS							
DB	BECK, DAVID E	07:00-17:00/R	07:00:00	17:00:00	10+0			
	REMARKS							
DG	GIBERSON, DAVID B.	07:00-17:00/R	07:00:00	17:00:00	10+0			
	REMARKS							
CG	GRAFE, COREY C.	07:00-17:00/R	07:00:00	17:00:00				
	REMARKS							
DH	HENNEY, DONALD A	07:00-17:00/R	07:00:00	17:00:00		1+2	0+7	
	REMARKS							
DK	KELLY, DENNIS E	07:00-17:00/R	07:00:00	17:00:00				
	REMARKS							
SO	BOYDE, JASON F.	07:05-15:05/R	07:05:00	15:05:00			0+27	
	REMARKS							
CB	BENTZ, CHAD M.	07:30-15:30/R	07:30:00	15:30:00	8+0			
	REMARKS							
BK	BRACKEN, JOHN	07:30-15:30/R	07:30:00	15:30:00	8+0			
	REMARKS							
UT	MCCOY, JENIFER	07:30-15:30/R	07:30:00	15:30:00				
	REMARKS							
AC	MILECA, CLAIRE	07:30-15:30/R	07:30:00	15:30:00	8+0			
	REMARKS							
DE	MILLMAN, DAVID	07:30-15:30/R	07:30:00	15:30:00	8+0			
	REMARKS							
JE	SNIVELY, JENNIFER	07:30-15:30/R	07:30:00	15:30:00				
	REMARKS							
RV	VAUGHAN, ROBERT V	07:30-15:30/R	07:30:00	15:30:00				
	REMARKS							
ZM	ZIMMERMANN, DIANE E.	07:30-15:30/R	07:30:00	15:30:00	8+0			

PHL

Selected Report Dates: 3/12/2014 10:00:00 PM - 3/13/2014 10:00:00 PM

OPINIT	NAME	SHIFT/TYPE	SIGN- IN	SIGN - OUT	LV	OJT	CIC	TOS
		REMARKS						
WS	SCHNEIDER, WALLACE G.	09:30-17:30/R	09:30:00	17:30:00				
		REMARKS						
AH	HOLDEN, AARON K.	10:00-14:00/P	10:00:00	14:00:00				4+0
		REMARKS						
SF	FOSKEY, SHANE	10:00-18:00/R	10:00:00	18:00:00				
		REMARKS						
MH	MCDONOUGH, JAY	10:00-18:00/R	10:00:00	17:00:00	1+0			
		REMARKS						
FO	RICHARDSON, BRIAN P	10:00-18:00/R	11:16:00	18:00:00	1+16			
		REMARKS						
LV	WILSON, JASON L.	10:00-18:00/R	10:00:00	18:00:00				
		REMARKS						
KM	LAUBACH, KRISTEN M	10:00-20:00/R	10:00:00	20:00:00				
		REMARKS						
UR	RANSOM, MICHAEL D	10:00-20:00/R	10:00:00	20:00:00				
		REMARKS						
BJ	RYAN, WILLIAM J.	10:00-20:00/R	10:00:00	20:00:00	10+0			
		REMARKS						
NS	SHERRELL, NATHAN K	10:00-20:00/R	10:00:00	20:00:00		1+52		
		REMARKS						
GR	SMITH, GARRETT R	10:00-20:00/R	10:00:00	20:00:00				
		REMARKS						
CD	CHAPMAN, DON	10:30-18:30/R	10:30:00	18:30:00	8+0			
		REMARKS						
ST	BROWN, STEPHEN A	11:38-19:38/R	11:38:00	21:38:00				2+0
		REMARKS						
DM	MULLIN, DANIEL P	12:00-20:00/R	12:00:00	23:30:00				3+30
		REMARKS						
TJ	KELLEY, THOMAS J.	12:30-22:30/R	12:30:00	22:30:00				
		REMARKS						

PHL

Selected Report Dates: 3/12/2014 10:00:00 PM - 3/13/2014 10:00:00 PM

OPINIT	NAME	SHIFT/TYPE	SIGN- IN	SIGN - OUT	LV	OJT	CIC	TOS
MR	ROGERS, MATTHEW J.	12:30-22:30/R	12:30:00	20:30:00	2+0			
	REMARKS							
PA	AGOSTO, JESSICA	13:00-21:00/R	13:00:00	22:00:00				1+0
	REMARKS							
YS	CONTI, ERIN	13:00-21:00/R	13:00:00	22:00:00				1+0
	REMARKS							
HO	DONAHUE, MICHAEL P.	13:00-21:00/R	13:00:00	23:00:00				2+0
	REMARKS							
CF	FERRIS, KYLE P	13:00-21:00/R	13:00:00	21:00:00		0+57		
	REMARKS							
KT	LINDER, MARCIA K.	13:00-21:00/R	13:00:00	21:45:00				0+45
	REMARKS							
MT	MOUNT, ERIC	13:00-21:00/R	13:00:00	23:00:00				2+0
	REMARKS							
AS	SCHERER, ANDREW	13:00-23:00/R	13:00:00	23:00:00	10+0			
	REMARKS							
JQ	WHITE, JIMMIE, JR.	13:00-23:00/R	13:00:00	23:00:00			2+8	
	REMARKS							
NE	ATCHLEY, CAROLYN	13:30-21:30/R	13:30:00	21:30:00	8+0			
	REMARKS							
MC	CLARKE, MICHAEL	13:30-21:30/R	13:30:00	21:30:00	8+0			
	REMARKS							
TB	BAYALIS, THOMAS J	13:45-21:45/R	13:45:00	22:45:00			5+12	1+0
	REMARKS							
CC	COLBURN, MATTHEW C.	14:30-22:30/R	14:30:00	20:30:00	2+0			
	REMARKS							
FD	DELGADO, FREDDIE	14:30-22:30/R	14:30:00	00:30:00		1+5		2+0
	REMARKS							
TM	HUGHES, TIMOTHY R	14:30-22:30/R	14:30:00	22:30:00				
	REMARKS							
LM	LEAMY, KEVIN	14:30-22:30/R	14:30:00	00:30:00				2+0
	REMARKS							

PHL

Selected Report Dates: 3/12/2014 10:00:00 PM - 3/13/2014 10:00:00 PM

OPINIT	NAME	SHIFT/TYPE	SIGN- IN	SIGN - OUT	LV	OJT	CIC	TOS
MM	PERKS, CHRISTOPHER	14:30-22:30/R	14:30:00	00:30:00				2+0
	REMARKS							
SR	REGAN, SHAUN	14:30-22:30/R	14:30:00	20:30:00	2+0			
	REMARKS							
BC	CASEY, ROBERT	14:33-22:33/R	14:33:00	00:33:00			0+29	2+0
	REMARKS							
CH	HILBERT, CHRISTOPHER	14:40-22:40/R	14:40:00	00:40:00				2+0
	REMARKS							
RB	BUNYARD, RAYMOND A.	15:00-23:00/R	15:00:00	01:00:00			0+26	2+0
	REMARKS							
OL	CLOTHIER, JAMES	15:00-23:00/R	15:00:00	01:00:00				2+0
	REMARKS							
DR	DREYER, DAVID J.	15:00-23:00/R	15:00:00	23:00:00	8+0			
	REMARKS							
PS	PHILLIPS, DANIEL	15:00-23:00/R	15:00:00	23:00:00	8+0			
	REMARKS							
EV	STONEBACK, EVA H.	15:00-23:00/R	15:00:00	23:00:00	8+0			
	REMARKS							
JZ	SHERIDAN, ADRIENNE	15:10-23:10/R	15:10:00	01:10:00				2+0
	REMARKS							

SECTION 6.

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

POSITION LOG

Fac ID: PHL Pos ID: GCE		Log Date: 3/13/2014 Pos Type: GC		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400	VG	0629	C		
0630	VG	0959	C		
1000	DJ	1050	C		
1051	RS	1111	C		
1112	CG	1200	C		
1201	NH	1221	C		
1222	UD	1327	S		
1328	NH	1419	C		
1420	MO	1513	C		
1514	AW	1636	C		
1637	RS	1749	C		
1750	MR	1837	C		
1838	LM	1914	C		
1915	MR	1942	C		
1943	HO	2005	C		
2006	RB	2055	C		
2056	SR	2127	C		
2128	MM	2215	C		
2216	SR	2257	C		
2258	MM	2324	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: GCE		Log Date: 3/13/2014 Pos Type: GC		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
2325	MT	0009	C		
0010	HO	0039	C		
0040		0052		G CW	GC
0053	LM	0128	C		
0129	TJ	0151	C		
0152	LM	0204	C		
0205	RB	0239	C		
0240	MM	0345	C		
0346	LM	0359	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: LW		Log Date: 3/13/2014 Pos Type: LC		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		1110			Closed
1111	MP	1149	C		
1150	RS	1232	C		
1233	CG	1309	C		
1310	RS	1317	C		
1318	TT	1404	C		
1405	DJ	1458	C		
1459	AA	1552	C		
1553	MO	1631	C		
1632	NH	1636	C		
1637	NH	1707	C		
1708	DJ	1709	C		
1710	HO	1746	C		
1747	NH	1753	C		
1754	KT	1839	C		
1840	SR	1912	C		
1913	KT	1944	C		
1945	SR	2009	C		
2010	SF	2056	C		
2057	HO	2144	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: LW		Log Date: 3/13/2014 Pos Type: LC		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
2145	CC	2221	C		
2222	MR	2249	C		
2250	KT	0001	C		
0002		0359		LE	LC

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: LE		Log Date: 3/13/2014		Pos Type: LC		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type		
0400	OT	0629	C				
0630	OT	0959	C				
1000	OT	1009	C				
1010	AA	1050	C				
1051	AW	1128	C				
1129	DJ	1223	C				
1224	NH	1313	C				
1314	MO	1317	C				
1318	RS	1341	C				
1342	MP	1458	C				
1459	NH	1551	C				
1552	DJ	1644	C				
1645	AA	1713	C				
1714	MT	1834	C				
1835	CC	1911	C				
1912	MM	1922	C				
1923	CG	1954	C				
1955	MM	2042	C				
2043	MT	2124	C				
2125	LM	2137	C				

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: LE		Log Date: 3/13/2014		Pos Type: LC		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type		
2138	KT	2221	C				
2222	HO	2316	C				
2317	CC	0009	C				
0010	MT	0039	C				
0040	TJ	0119	C				
0120	RB	0129	C				
0130	MM	0156	C				
0157	MT	0224	C				
0231	VG	0235	C				
0236	LM	0309	C				
0310	RB	0347	C				
0348	OT	0359	C				

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014			
Pos ID: OST	Pos Type: SC	Pos ID	Pos Type		
TIME ON	Initials	TIME OFF	Code		
		Where Combined To:			
		Pos ID	Pos Type		
0400		1004	S	Closed	
1005	UD	1129	S		
1130		1417		AD	DI
1418	UD	1601	S		
1602	FO	1706	S		
1707	UD	1752	S		
1753		1914		Closed	
1915	OL	2028	S		
2029	TM	2114	S		
2115	OL	0050	S		
0051	TM	0132	S		
0133	OL	0259	S		
0300	OL	0359	S		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014		
Pos ID: OMIC	Pos Type: SI	Where Combined To:		
TIME ON	Initials	TIME OFF	Code	
			Pos ID	
			Pos Type	
0400		1014	AD	DI
1015	RO	1629	S	
1630		1832		Closed
1833	DM	2359	S	
0000	DM	0319	S	
0320		0359		Closed

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014		Where Combined To:	
Pos ID:	CD	Pos Type:	CD	Pos ID	Pos Type
TIME ON	Initials	TIME OFF	Code	GCE	GC
0400		0959	C		
1000	MO	1055	C		
1056	NH	1131	C		
1132	MO	1206	C		
1207	AW	1314	C		
1315	DJ	1329	C		
1330	AW	1423	C		
1424	RS	1551	C		
1552	MP	1636	C		
1637	MR	1706	C		
1707	KT	1721	C		
1722	MP	1814	C		
1815	HO	1906	C		
1907	SF	1927	C		
1928	MT	1949	C		
1950	LM	2042	C		
2043	MR	2124	C		
2125	RB	2213	C		
2214	MT	2224	C		
2225	LM	2354	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014		Where Combined To:	
Pos ID:	CD	Pos Type:	CD	Pos ID	Pos Type
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
2355	RB	0032	C		
0033	KT	0059	C		
0100	KT	0118	C		
0119	MT	0128	C		
0129	HO	0204	C		
0205	OT	0229	C		
0230	OT	0254	C		
0255	VG	0359	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: CCE Pos Type: CC

TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		1713		GCE	GC
1714	AW	1753	C		
1754	CG	1845	C		
1846	MM	1911	C		
1912		1952		Closed	
1953	CC	2119	C		
2120		2229		GCE	GC
2230	MT	2303	C		
2304	RB	2354	C		
2355		0359		GCE	GC

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
Pos ID: TC Pos Type: CI

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		OSI	SI

POSITION LOG

Fac ID: PHL Pos ID: FV1		Log Date: 3/13/2014 Pos Type: FR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		0954		AD	DI
0955	CW	1041	C		
1042		1142		AD	DI
1143	GP	1251	C		
1252	RC	1259	C		
1300		1345		AD	DI
1346	GP	1349	C		
1350	RC	1451	C		
1350	XY	1451	T		
1452		1548		Closed	
1549	CW	1612	C		
1613	CE	1631	C		
1632	TJ	1713	C		
1714	CF	1759	C		
1800	CF	1857	C		
1800	LV	1857	T		
1858	NS	1902	C		
1903	LV	1924	T		
1903	NS	1924	C		
1925	JZ	1959	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: FV1		Log Date: 3/13/2014 Pos Type: FR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
2000	LV	2131	T		
2000	NS	2131	C		
2132	NS	2134	C		
2135	CF	2217	C		
2218	TJ	2238	C		
2239	UR	2314	C		
2315	PA	0033	C		
0034	CH	0147	C		
0148	PA	0155	C		
0156	VG	0230	C		
0240	CH	0249	C		
0250	BC	0349	C		
0350	BA	0359	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
Pos ID: FV2 Pos Type: FR

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID Pos Type
0400		0359		Closed

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: ARD Pos Type: AP

TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		1144		PTW	AP
1145	DK	1231	C		
1232	SO	1303	C		
1304		1954		PTW	AP
1955	FD	2059	C		
1955	YS	2059	T		
2100	FD	2128	C		
2129		0359		Closed	

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014	
Pos ID: PTW		Pos Type: AP	

TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		0359		ARD	AP

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: OOD		Log Date: 3/13/2014 Pos Type: AP		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		1154		SA	AR
1155	BA	1301	C		
1302		1415		FV2	FR
1416	GT	1451	C		
1452		1607		FV2	FR
1608	GT	1629	C		
1630	BB	1658	C		
1659		1754		FV2	FR
1755	JQ	1804	C		
1805	UR	1839	C		
1840	BC	1916	C		
1917	UR	2001	C		
2002	JZ	2031	C		
2032	GR	2143	C		
2144		0359		FV2	FR

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: NA		Log Date: 3/13/2014 Pos Type: AR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		0955		ND	DR
0956	EP	1043	C		
1044		1114		ND	DR
1115	CW	1134	C		
1135	GT	1136	C		
1137	CW	1137	C		
1138	BB	1222	C		
1223	GT	1339	C		
1340	CW	1451	C		
1452	SO	1534	C		
1535	RC	1709	C		
1710	YS	1739	C		
1740	TJ	1824	C		
1825	PA	1844	C		
1845	CH	1924	C		
1925	PA	2023	C		
2024	TJ	2144	C		
2145	BC	2217	C		
2218	KM	2259	C		
2300	CF	2357	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: NA		Log Date: 3/13/2014 Pos Type: AR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
2358	BC	0010	C		
0011		0058		ND	DR
0059	YS	0059	C		
0100	YS	0152	C		
0153		0359		Closed	

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014			
Pos ID: ND		Pos Type: DR			
TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		0929		AD	DI
0930	MD	0954	C		
0955	BA	1044	C		
1045	PW	1136	C		
1137	GT	1203	C		
1204	XY	1251	C		
1252	BB	1428	C		
1429	EP	1534	C		
1535	XY	1633	C		
1634	SO	1713	C		
1714	XY	1814	C		
1815	SO	1839	C		
1840	FD	1914	C		
1915	KM	1954	C		
1955	CH	2138	C		
2139	JQ	2214	C		
2215	FD	2259	C		
2300	BC	2316	C		
2317	FD	0013	C		
0014	BC	0039	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014			
Pos ID: ND		Pos Type: DR			
TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0040	VG	0147	C		
0148	BC	0203	C		
0204	JQ	0229	C		
0230	BA	0309	C		
0310	GT	0314	C		
0315	FD	0350	C		
0351	GT	0359	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: H Pos Type: AP

TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		1819		AD	DI
1820	EP	1909	C		
1910		0359		AD	DI

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: AD Pos Type: DI

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		DD	DI

POSITION LOG

Fac ID: PHL Pos ID: DD		Log Date: 3/13/2014 Pos Type: DI		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		1002		AD	DI
1003	GT	1104	C		
1105	XY	1107	C		
1108	GP	1113	C		
1114	SO	1121	C		
1122	RC	1212	C		
1213	CW	1307	C		
1308	SO	1321	C		
1322	JE	1336	C		
1337	XY	1349	C		
1350	GP	1501	C		
1502	GT	1534	C		
1535	CW	1548	C		
1549	GP	1634	C		
1635	EP	1659	C		
1700	PA	1726	C		
1727	PA	1748	C		
1727	SF	1748	M		
1749	GR	1829	C		
1749	SF	1829	T		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: DD		Log Date: 3/13/2014 Pos Type: DI		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
1830	GR	1832	C		
1833	YS	1911	C		
1912	GR	1949	C		
1950	BC	2114	C		
2115	JZ	2206	C		
2207	PA	2238	C		
2239	CH	2259	C		
2300	JQ	2325	C		
2326	TJ	0009	C		
0010	CF	0033	C		
0034	YS	0056	C		
0057	JQ	0118	C		
0119	JQ	0135	C		
0136		0214			Closed
0215	GT	0242	C		
0243	JZ	0309	C		
0310	JZ	0359	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: CICT Pos Type: SC

TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400	VG	0629	C		
0630	OT	0959	C		
1000		1134		OST	SC
1135	AA	1229	C		
1230	MP	1314	C		
1315	AA	1408	C		
1409	MO	1419	C		
1420		1752		OST	SC
1753	AA	1904	C		
1905	RB	1930	C		
1931		0359		OST	SC

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: CICR Pos Type: SI

TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		1104		OSI	SI
1105	DH	1111	C		
1112	BA	1120	C		
1121	GT	1134	C		
1135		1714		OSI	SI
1715	JQ	1753	C		
1754		2349		OSI	SI
2350	JQ	0118	C		
0119	BC	0147	C		
0148		0359		Closed	

POSITION LOG

Fac ID: PHL
Pos ID: SDHO
Log Date: 3/13/2014
Pos Type: HO

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		SD	DR

POSITION LOG

Fac ID: PHL
Pos ID: NAHO

Log Date: 3/13/2014
Pos Type: HO

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		NA	AR

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: NHHO		Log Date: 3/13/2014 Pos Type: HO			
TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		0359		AD	DI

POSITION LOG

Fac ID: PHL
Pos ID: SHHO
Log Date: 3/13/2014
Pos Type: HO

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		Closed	

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL
 Pos ID: OODHO
 Log Date: 3/13/2014
 Pos Type: HO

TIME ON
 Initials
 TIME OFF
 Code
 Where Combined To:
 Pos ID Pos Type

0400
 0359
 OOD AP

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL
Pos ID: YHO
Log Date: 3/13/2014
Pos Type: HO

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		ARD	AP

POSITION LOG

Fac ID: PHL
Pos ID: PTW/HO

Log Date: 3/13/2014
Pos Type: HO

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		Closed	

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL
Pos ID: TMAD
Log Date: 3/13/2014
Pos Type: DI

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		0359		Closed	

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
Pos ID: SC Pos Type: CC

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID Pos Type
0400		0359		Closed

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014			
Pos ID: OSIC		Pos Type: SI			
TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400	KR	0955	S		
0956	JJ	1106	S		
1107		0104		AD	DI
0105	OL	0124	S		
0125		0359		OMIC	SI

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014			
Pos ID: OSI		Pos Type: SI			
TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		1134		AD	DI
1135	JJ	1321	S		
1322	SO	1348	C		
1349	JJ	1522	S		
1523	FO	1556	S		
1557	JJ	1739	S		
1740		1753		Closed	
1754	FO	1844	S		
1845	TM	1942	S		
1943	FO	2122	S		
2123	TM	2359	S		
0000		0147		Closed	
0148	TM	0214	S		
0215	KR	0359	S		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: SD		Log Date: 3/13/2014 Pos Type: DR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		0931		DQO	AP
0932	BE	0953	C		
0954	BB	1101	C		
1102	DK	1141	C		
1142	DH	1244	C		
1142	JE	1244	T		
1245	EP	1348	C		
1349	DH	1521	C		
1522	BB	1616	C		
1617	BA	1659	C		
1700	EP	1739	C		
1740	YS	1750	C		
1751	KM	1835	C		
1836	DH	1906	C		
1907	JQ	1949	C		
1950	DH	2032	C		
2033	KM	2144	C		
2145	GR	2155	C		
2156	YS	2238	C		
2239	GR	2312	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: SD		Log Date: 3/13/2014 Pos Type: DR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
2313	YS	0002	C		
0003	JZ	0051	C		
0052	FD	0148	C		
0149	JZ	0211	C		
0212	FD	0229	C		
0230	FD	0305	C		
0306	CH	0359	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: SA		Log Date: 3/13/2014 Pos Type: AR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		1003		SD	DR
1004	RC	1040	C		
1041		1115		SD	DR
1116	EP	1157	C		
1158	XY	1200	C		
1201	JM	1304	T		
1201	PW	1304	C		
1305	RC	1344	C		
1345	BA	1452	C		
1453	GT	1500	C		
1501		1541		SD	DR
1542	BA	1613	C		
1614	CW	1658	C		
1659	BB	1702	C		
1703	GP	1739	C		
1740	NS	1833	C		
1834	DK	1903	C		
1904	TJ	1939	C		
1940	CF	2047	C		
2048	UR	2201	C		

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Pos ID: SA		Log Date: 3/13/2014 Pos Type: AR		Where Combined To:	
TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
2202	NS	2259	C		
2300	JZ	2334	C		
2335	CH	0009	C		
0010		0115		SD	DR
0116	PA	0137	C		
0138		0359		Closed	

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL
 Pos ID: STMCI
 Log Date: 3/13/2014
 Pos Type: SI

Where Combined To:
 Pos ID Pos Type

TIME ON	Initials	TIME OFF	Code	Pos ID	Pos Type
0400		1359			Closed
1400	WS	2116	S		
2117		0359			Closed

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL
Pos ID: TMCC1
Log Date: 3/13/2014
Pos Type: SI

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		1144		AD	DI
1145	TT	1225	C		
1226	CE	1414	C		
1415		2117		Closed	
2118	TB	0144	C		
0145	TB	0229	C		
0230		0359		AD	DI

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL		Log Date: 3/13/2014	
Pos ID: TMACT1	Pos Type: TM	Code	Where Combined To: Pos ID Pos Type
TIME ON	Initials	TIME OFF	
0400		0929	AD DI
0930	CE	1144	C
1145	TT	1225	C
1226	CE	1414	C
1415	CE	1437	C
1438		1537	Closed
1538	ST	1759	C
1800		1841	AD DI
1842	ST	1959	C
2000		2034	Closed
2035	ST	2159	C
2200		0359	Closed

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL
Pos ID: TMD1
Log Date: 3/13/2014
Pos Type: TM

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Pos Type
0400		1257		AD	DI
1258	TT	1314	C		
1315		1759		Closed	
1800	TB	2044	C		
2045		2116		AD	DI
2117	TB	2117	C		
2118	TB	0144	C		
0145	TB	0228	C		
0229		0359		AD	DI

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: TMAC2 Pos Type: TM

TIME ON	Initials	TIME OFF	Code	Where Combined To:	
				Pos ID	Pos Type
0400		2159		Closed	
2200	ST	2337	C		
2338	ST	0112	C		
0113		0359		TMAC1	TM

FAA Form 7230-10 (Electronic)

POSITION LOG

Fac ID: PHL Log Date: 3/13/2014
 Pos ID: TMDC2 Pos Type: TM

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID Pos Type
0400		0359		Closed

FAA Form 7230-10 (Electronic)

POSITION LOG

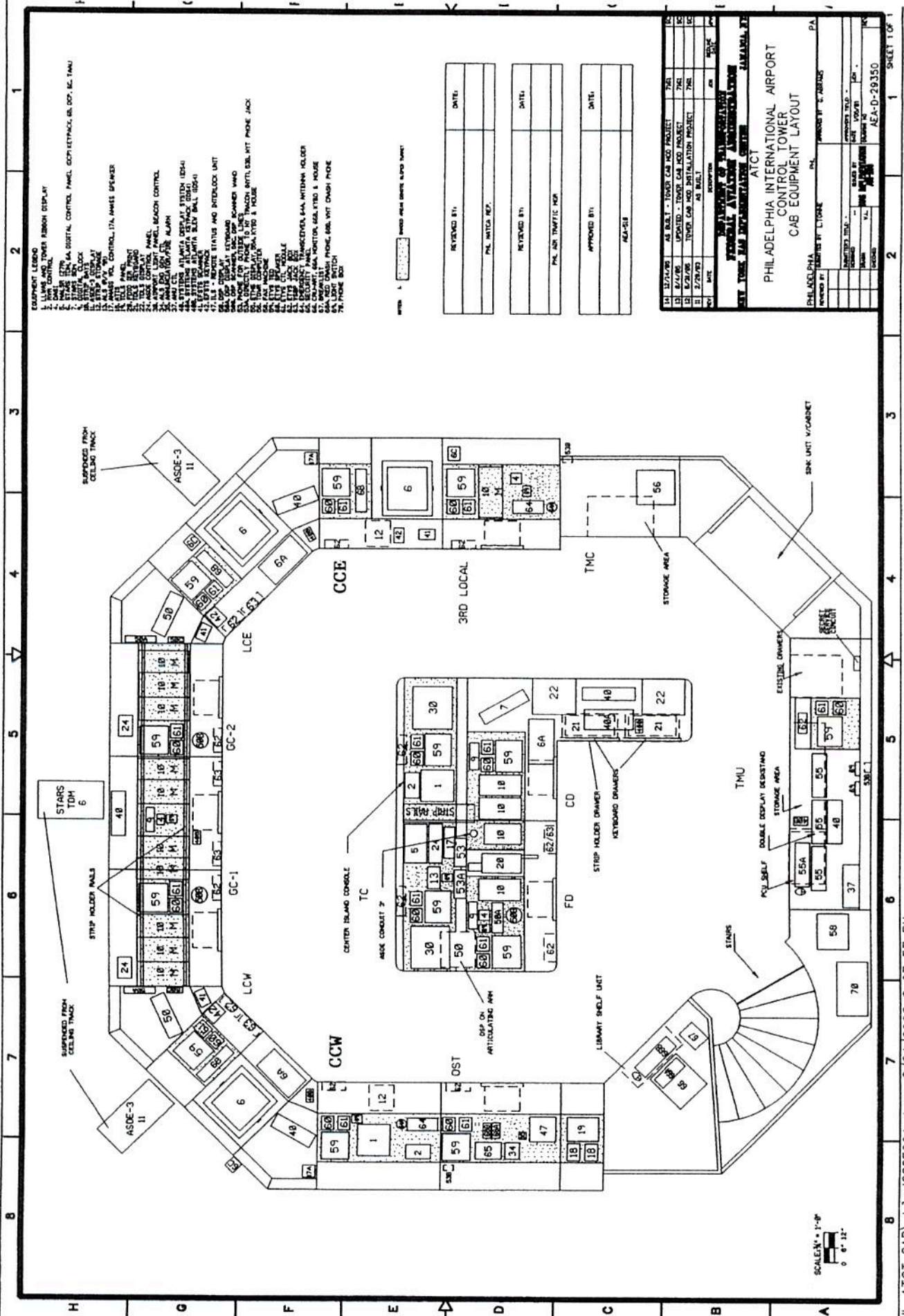
Fac ID: PHL Log Date: 3/13/2014

Pos ID: TS Pos Type: CC

TIME ON	Initials	TIME OFF	Code	Where Combined To: Pos ID	Where Combined To: Pos Type
0400		0359		GCE	GC

SECTION 7.
Facility Layout Chart(s)

THIS DRAWING PRODUCED ON THE EASTERN REGION IMPOSITION SYSTEM



- EQUIPMENT LEGEND
- 1. LUMIN AND TOWER RADAR DISPLAY
 - 2. DATA CONTROL
 - 3. TOWER LOCAL CONTROL PANEL COPY/STORAGE, 60.00. 60.10.00
 - 4. TOWER LOCAL CONTROL PANEL COPY/STORAGE, 60.00. 60.10.00
 - 5. TOWER LOCAL CONTROL PANEL COPY/STORAGE, 60.00. 60.10.00
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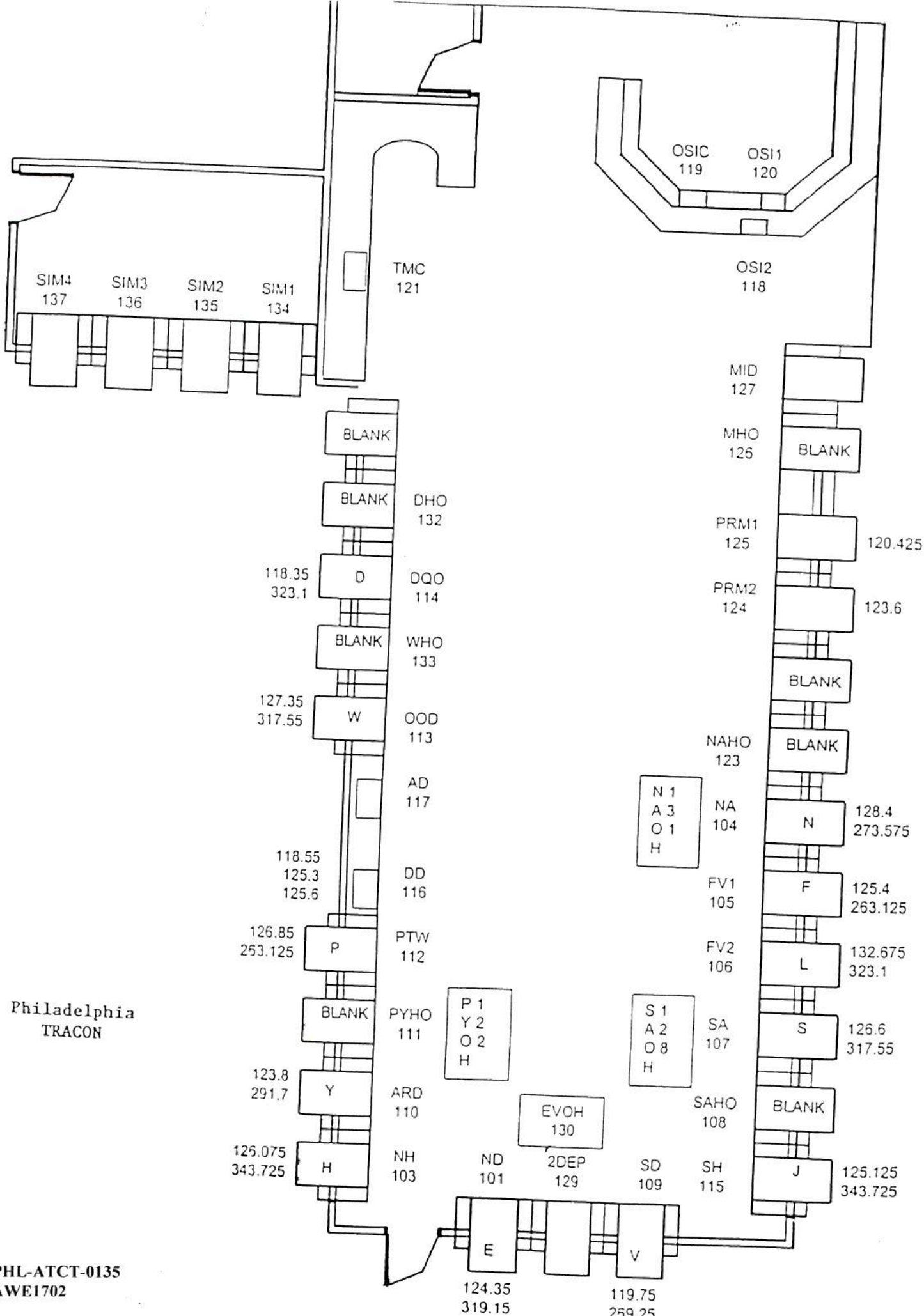
REVIEWED BY:	DATE:
PHL INTACTA REG.	
REVIEWED BY:	DATE:
PHL INTACTA TRAFFIC MGR	
APPROVED BY:	DATE:
REG-518	

ATCT
PHILADELPHIA INTERNATIONAL AIRPORT
CONTROL TOWER
CAB EQUIPMENT LAYOUT

NO.	DATE	DESCRIPTION	BY	CHKD
13	8/1/06	AS BUILT - TOWER CAB ASSET PROJECT	PHL	PHL
14	8/1/06	EXPLODED VIEW - TOWER CAB ASSET PROJECT	PHL	PHL
15	8/2/06	TOWER CAB AND TOWER LOCAL PROJECT	PHL	PHL
16	2/7/06	AS BUILT	PHL	PHL

PHILADELPHIA INTERNATIONAL AIRPORT
CONTROL TOWER
CAB EQUIPMENT LAYOUT

SCALE: 1/8" = 1'-0"
0 6" 12"



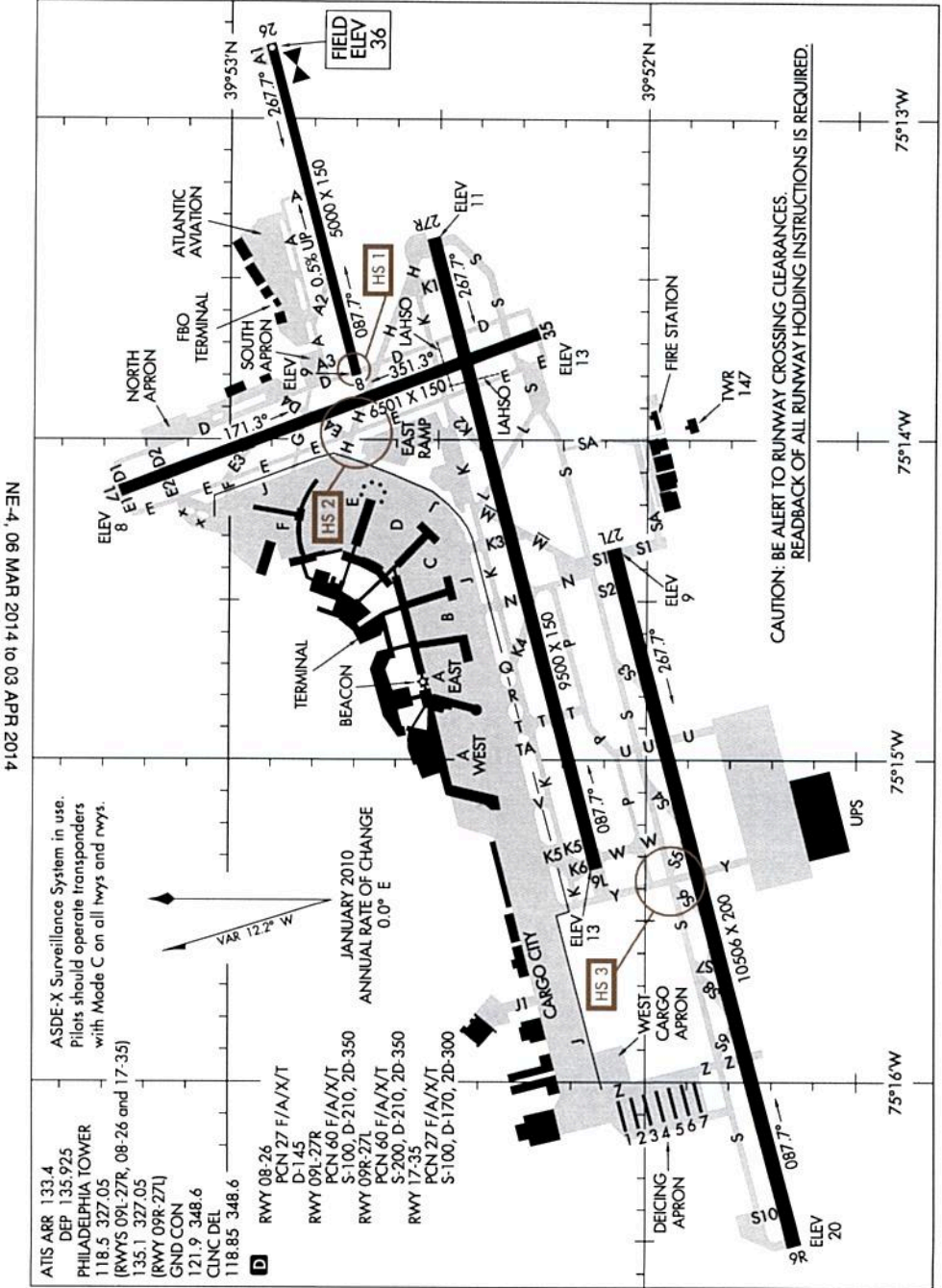
SECTION 8.
Airport Diagram

12096

AIRPORT DIAGRAM

AL-320 (FAA)

PHILADELPHIA INTL (PHL)
PHILADELPHIA, PENNSYLVANIA



NE-4, 06 MAR 2014 to 03 APR 2014

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NE-4, 06 MAR 2014 to 03 APR 2014

ASDE-X Surveillance System in use.
Pilots should operate transponders with Mode C on all twys and rwy's.

ATIS ARR 133.4
DEP 135.925
PHILADELPHIA TOWER
118.5 327.05
(RWYS 09L-27R, 08-26 and 17-35)
135.1 327.05
(RWY 09R-27L)
GND CON
121.9 348.6
CLNC DEL
118.85 348.6

VAR 12.2° W

JANUARY 2010
ANNUAL RATE OF CHANGE
0.0° E

PCN 08-26 F/A/X/T
D-145
RWY 09L-27R
PCN 60 F/A/X/T
S-100, D-210, 2D-350
RWY 09R-27L
PCN 60 F/A/X/T
S-200, D-210, 2D-350
RWY 17-35
PCN 27 F/A/X/T
S-100, D-170, 2D-300

AIRPORT DIAGRAM

12096

PHILADELPHIA, PENNSYLVANIA
PHILADELPHIA INTL (PHL)

THIS DIAGRAM IS NOT TO SCALE

SECTION 9.
Flight Progress Strip(s) and/or In-Flight Contact Record(s)

Philadelphia ATCT

89A AWE1702 A320/L	1714 452 KPHL P2150 320 KPHL	+ . . OOD . . TEBEE . . HAYDO	. . SBY . + . OOD . . TEBEE . . HAYDO . . SBY . . KEMPR . . ILM . AR21 . BAHAA . AR21 . CRANS		
FISEL5 . KFL / 0213				2225Z	24000 LBS 149 SOB

AWE1702	1714	KPHL	KPHL <u>OOD</u> TEBEE HAYDO SBY	EDCT	
A320/L	P2150	→	KEMPR ILM AR21 BAHAA AR21	2229	
89A	320		CRANS FISEL5 KFL		

FAA Form 7230-8

SECTION 10.
Transcription of Voice Recording(s)



Federal Aviation Administration


Memorandum

Date: March 24, 2014
To: Aircraft Accident File PHL-ATCT-0135
From: Philadelphia Airport Traffic Control Tower
Subject: **INFORMATION:** Partial Transcript
Aircraft Accident, AWE1702
Philadelphia, PA, March 13, 2014

This transcription covers the Philadelphia Airport Traffic Control Tower (ATCT) GCE GC position for the time period from March 13, 2014, 2203 UTC, to March 13, 2014, 2220 UTC.

Agencies Making Transmissions	Abbreviations
US AIRWAYS (PHOENIX, AZ), AWE1702	AWE1702
Ground Control East	GCE

I certify that the following is a true transcription of the recorded conversations pertaining to the subject Aircraft Accident involving AWE1702.


Sharon Colvin
Support Specialist
Philadelphia Air Traffic Control Tower

2203
(2204-2207)

2208
2208:20 AWE1702 cactus seventeen zero two spot two yankee

2208:25 GCE cactus seventeen zero two philly ground runway two seven
left taxi via yankee hold short of the nine left approach

2208:32 AWE1702 and yankee hold short of the nine left approach cactus
seventeen zero two

2209
(2210-2212)

2213
2213:57 GCE cactus seventeen zero two yankee sierra on sierra monitor
tower

2214

PHL-ATCT-0135
AWE1702

Page 2 of 2

2214:01 AWE1702 yankee sierra monitor tower cactus seventeen zero two
2215
(2216-2219)
2220

End of Transcript



Federal Aviation Administration


Memorandum

Date: March 24, 2014
To: Aircraft Accident File PHL-ATCT-0135
From: Philadelphia Airport Traffic Control Tower
Subject: **INFORMATION:** Partial Transcript
Aircraft Accident, AWE1702
Philadelphia, PA, March 13, 2014

This transcription covers the Philadelphia Airport Traffic Control Tower (ATCT) LW LC position for the time period from March 13, 2014, 2214 UTC, to March 13, 2014, 2235 UTC.

Agencies Making Transmissions	Abbreviations
Local Control West	LCW
US AIRWAYS (PHOENIX, AZ), AWE1702	AWE1702
Unknown aircraft	UNKNOWN

I certify that the following is a true transcription of the recorded conversations pertaining to the subject Aircraft Accident involving AWE1702.


Sharon Colvin
Support Specialist
Philadelphia Air Traffic Control Tower

2214
(2215-2218)
2219
2219:30 LCW cactus seventeen o two number six for depature

2219:34 AWE1702 seventeen o two roger
2220
2221
2221:23 LCW ah cactus seventeen o two you'll be next for departure
following the southwest

2221:27 AWE1702 seventeen zero two
2222

2222:35 LCW nd cactus seventeen zero two runway two seven left line up
and wait

2222:38 AWE1702 line up and wait two seven left cactus seventeen zero two
2223

2223:26 LCW cactus seventeen zero two fly heading two three zero
runway two seven left cleared for take off

2223:31 AWE1702 two tree zero and cleared for take off cactus seventeen
2224 zero two

2224:44 LCW cactus seventeen o two you on the frequency

2224:48 AWE1702 seventeen zero two aborting ah two seven left

2224:51 LCW okay yeah ah it's really tough to tell i see smoke down
there an ah are you ah still on the runway

2225:00 LCW seventeen o two we're gonna dispatch the emergency
vehicles

2225:08 AWE1702 (unintelligible) this is cactus seventeen o two do how do
you read

2225:11 LCW i i hear you loud and clear we're just di dispatching the
emergency vehicles

2225:15 AWE1702 okay alright it seems to be everything's okay

2225:21 LCW okay no problem sir we got the ah vehicles en road as soon
as we can get them there

2225:24 AWE1702 left engine left engine

2225:46 LCW cactus seventeen o two as soon as you can if you could
give me any information that you can that will help out
the ah the ah emergency personnel

2225:52 AWE1702 do you show smoke coming out of the ah left engine

2225:56 LCW okay thank you i i do see some ah yeah smoke out of your

left side there thank you

2226:00 AWE1702 is it bad is it bad

2226:03 UNKNOWN yes

2226:04 UNKNOWN yes

2226:05 AWE1702 okay
2227
2228

2228:59 LCW and cactus seventeen o s two two are you still on frequency

2229:04 AWE1702 seventeen o two go ahead

2229:05 LCW just so we can pass along to the emergency per personnel they did want to know it looks like maybe you let some passengers off it's tough to tell from up here but do ah you have the the fuel and ah souls on board

2229:14 AWE1702 ah ya it was one hundred forty nine on the souls ah we lost our ah fuel indication i don't know what's on board we were at twenty four thousand pounds and ah we we did evacuate the aircraft

2229:28 LCW okay thank you i'll pass that along and ah let me know please if you need anything from them i'm going to relay i don't seem to have them on frequency

2229:33 AWE1702 okay
2230
(2231-2234)
2235

End of Transcript

SECTION 11.

FAA Form(s) 8020-3, Facility Accident/Incident Notification Record



FACILITY ACCIDENT/INCIDENT NOTIFICATION RECORD

Aircraft Identification
AWE170Z
 Date
3/13/2014
 Airport
 PHL

The order and number of call will be determined by the situation involved.

	Phone No.	Time	Initials	
			Caller	Recipient
Airport Emergency Equipment		✓		
Additional Emergency Equipment				
Search and Rescue				
*Washington Operations Center (WOC)				
Region Operations Center (ROC)		✓		
Air Traffic Manager		✓		
Flight Standards District Office (FSDO)				
System Safety Investigations		✓		
National Transportation Safety Board (NTSB)		✓		
System Maintenance Organization Manager				
Law Enforcement				
National Weather Service (NWS)				
Military Authority				
Airport Authority				
Aircraft Operator				
Contract Weather Observer (Condor Services)				
Technical Operations Sector Supervisor (AI Best)				
Flight Service DCA AFSS				
New York Center Area Manager				
Washington Center Area Manager				
FAA Security Local				
Regional				
ATCSCC				
FBI				
PHL ATM Melveice Harris		✓		
Independence District Manager (Rick Kettell)				
NATCA Rep. (beeper # [redacted] pin 13745 end of msg #5)		✓		
If unable to contact PHL ATM contact ONE of the following:				
RN, DS, GG				
FAX PRELIMINARY FORM 8020-9 TO ROC				


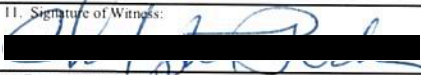
Form Updated by (Name, Title, Facility): **Robert Eberly, Support Specialist, PHL ATCT**

Date:
03/28/2012

* Accidents requiring telephone notification to Washington shall be made immediately following motivation for emergency equipment and/or search and rescue.

SECTION 12.


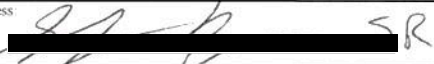
FAA Form(s) 8020-26, Personnel Statement

 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION PERSONNEL STATEMENT		1. Name of Reporting Facility: Philadelphia ATCT	2. Report Number: PHL-ATCT-0135
		3. Aircraft Identification and Type: AWE1702, A320	
4. Location of Accident/Incident: Philadelphia, PA		5. Date/Time of Accident/Incident (UTC): March 13, 2014; 2225 UTC	
6. Name (Operating Initials): Christopher Perks (MM)	7. Title: ATCS	8. Position and Time (UTC): GCE GC 2128-2215 UTC	
<p>9. Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement.</p>			
10. TEXT OF STATEMENT:		<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> SUPPLEMENTAL <input checked="" type="checkbox"/> COMMENT <input type="checkbox"/> NO COMMENT	
<p>I was working GCE/60W positions combined at the beginning of a departure push. It was a standard session without^{with} aircraft requesting taxi instructions from various points of the airport. I taxied AWE1702 for departure and transferred communications to LCW without noting anything out of the ordinary or non standard. I was relieved from the position prior to the AWE 1702 incident.</p> <p>The above statement is factual and true to the best of my knowledge, based upon the information available to me at this time.</p>			
11. Signature of Witness: 		12. Date of Signature: 31 MAR 2014	

FAA Form 8020-26 (12-10)

PHL-ATCT-0135

AWE1702

 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION PERSONNEL STATEMENT		1. Name of Reporting Facility: Philadelphia ATCT	2. Report Number: PHL-ATCT-0135
		3. Aircraft Identification and Type AWE1702, A320	
4. Location of Accident/Incident: Philadelphia, PA		5. Date/Time of Accident/Incident (UTC): March 13, 2014; 2225 UTC	
6. Name (Operating Initials): Shaun Regan (SR)	7. Title: ATCS	8. Position and Time (UTC): GCE GC 2216-2257 UTC	
<p>9. Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/ incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement.</p>			
10. TEXT OF STATEMENT:		<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> SUPPLEMENTAL <input checked="" type="checkbox"/> COMMENT <input type="checkbox"/> NO COMMENT	
<p>I worked GC after AWE1702 was taxied out. I never communicated with the aircraft. The above statement is true and factual to the best of my knowledge, based upon the information available to me at this time.</p>			
11. Signature of Witness:  SR		12. Date of Signature: March 28 2014	

FAA Form 8020-26 (12-10)

PHL-ATCT-0135

AWE1702



**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
PERSONNEL STATEMENT**

1. Name of Reporting Facility: Philadelphia ATCT
2. Report Number: PHL-ATCT-0135

3. Aircraft Identification and Type: AWE1702, A320

4. Location of Accident/Incident: Philadelphia, PA

5. Date/Time of Accident/Incident (UTC): 2225 ~~1459~~
March 13, 2014: 1412 UTC

6. Name (Operating Initials): Matthew J. Rogers (MR)

7. Title: ATCS

8. Position and Time (UTC): LW LC 2222-2249 UTC

9. Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/ incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement.

10. TEXT OF STATEMENT: ORIGINAL SUPPLEMENTAL

COMMENT NO COMMENT

I cleared AWE1702 for takeoff on Runway 27L.
I issued RPA3297 line up and wait instructions.
I observed AWE1702 rotate. I cleared RPA 3297 for takeoff. I visually scanned the departure end of runway 27L and saw smoke. I canceled RPA3297's takeoff clearance and assisted AWE 1702 with emergency coordination.
The above statement is true and factual to the best of my knowledge, based upon the information available to me at this time.

11. Signature of Witness:

12. Date of Signature: 3-21-2014



**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
PERSONNEL STATEMENT**

1. Name of Reporting Facility: Philadelphia ATCT	2. Report Number: PHL-ATCT-0135
3. Aircraft Identification and Type: AWE1702, A320	

4. Location of Accident/Incident:
Philadelphia, PA

5. Date/Time of Accident/Incident (UTC):
March 13, 2014; 2225 UTC

6. Name (Operating Initials):
Michael P. Donahue (HO)

7. Title:
ATCS

8. Position and Time (UTC):
LE LC 2222-2316 UTC

9. Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/ incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement.


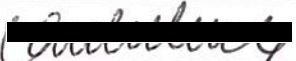
10. TEXT OF STATEMENT: ORIGINAL SUPPLEMENTAL

COMMENT NO COMMENT

I was working local was at the time of the incident. The incident occurred on the other side of the airport from the traffic that I was working. By the time I was able to divert my attention over there all that I could see was smoke and the "Alert 2" was called. I worked a couple of emergency vehicles over to RWY 27L.

11. Signature of Witness:


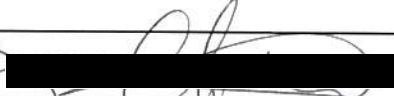
12. Date of Signature:
3/20/14



 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION PERSONNEL STATEMENT		1. Name of Reporting Facility: Philadelphia ATCT	2. Report Number: PHL-ATCT-0135
		3. Aircraft Identification and Type: AWE1702, A320	
4. Location of Accident/Incident: Philadelphia, PA		5. Date/Time of Accident/Incident (UTC): March 13, 2014; 2225 UTC	
6. Name (Operating Initials): Michael P. Donahue (HO)	7. Title: ATCS	8. Position and Time (UTC): LE LC 2222-2316 UTC	
<p>9. Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/ incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement.</p>			
10. TEXT OF STATEMENT:		<input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> SUPPLEMENTAL <input checked="" type="checkbox"/> COMMENT <input type="checkbox"/> NO COMMENT	
<p>The above/previous statement is true and factual to the best of my knowledge, based upon the information available to me at this time.</p>			
11. Signature of Witness: 		12. Date of Signature: 3/27/14	

FAA Form 8020-26 (12-10)

PHL-ATCT-0135

AWE1702

 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION PERSONNEL STATEMENT		1. Name of Reporting Facility Philadelphia ATCT	2. Report Number PHL-ATCT-0135
		3. Aircraft Identification and Type AWE1702, A320	
4. Location of Accident/Incident Philadelphia, PA		5. Date/Time of Accident/Incident (UTC) March 13, 2014; ²²²⁵ 1112 UTC	
6. Name (Operating Initials) James Clothier (OL)	7. Title FM	8. Position and Time (UTC) OST FM 2115-0050 UTC	
<p>9. Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/ incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement.</p>			
<p>10. TEXT OF STATEMENT: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> SUPPLEMENTAL</p> <p style="text-align: center;"><input checked="" type="checkbox"/> COMMENT <input type="checkbox"/> NO COMMENT</p> <p>Awe 1702 appeared to have rotated then come back down on the runway. At the same time smoke was observed from the left side of the aircraft. The crash phone rung and emergency response vehicles reported on scene.</p>			
11. Signature of Witness 		12. Date of Signature 3-24-14	

 DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION PERSONNEL STATEMENT		1. Name of Reporting Facility: Philadelphia ATCT	2. Report Number: PHL-ATCT-0135
		3. Aircraft Identification and Type: AWE1702, A320	
4. Location of Accident/Incident: Philadelphia, PA		5. Date/Time of Accident/Incident (UTC): March 13, 2014; ²²²⁵ 1112 UTC	
6. Name (Operating Initials): Daniel P. Mullin (DM)	7. Title: OM	8. Position and Time (UTC): OMIC SI 1833-0319 UTC	
<p>9. Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement.</p>			
10. TEXT OF STATEMENT:		<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> SUPPLEMENTAL <input checked="" type="checkbox"/> COMMENT <input type="checkbox"/> NO COMMENT	
<p>I WAS WORKING OMIC POSITION WHEN AN ALERT II WAS CALLED RWY 27L FOR AWE1702. ALL COORDINATION WAS COMPLETED. CITY DOWNGRADED TO ALERT I 30 MINUTES LATER.</p>			
11. Signature of Witness: 		12. Date of Signature: 3-19-14	

FAA Form 8020-26 (12-10)

PHL-ATCT-0135

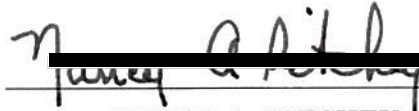
AWE1702

SECTION 13.
Weather Products

FORM CD-64
(REVISED)
Prescribed By
D.A.O. 201-17

U. S. DEPARTMENT OF COMMERCE
Asheville, N.C.

I CERTIFY that the attached are authentic and true copies of meteorological records on file in the NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA.



NANCY A. RITCHEY
RECORDS CUSTODIAN
DATA ADMINISTRATOR
(Official Title)

.....

I HEREBY CERTIFY that NANCY A. RITCHEY, RECORDS CUSTODIAN, who signed the foregoing certificate, is now, and was at the time of signing, DATA ADMINISTRATOR, NATIONAL CLIMATIC DATA CENTER, and that full faith and credit should be given his certificate as such. I further state that I am the person to whom the said custodian reports.

IN WITNESS WHEREOF, I have hereunto
subscribed my name and caused the
seal of the Department of Commerce
to be affixed
on this date: **MAR 17 2014**

For the SECRETARY OF COMMERCE:



THOMAS R. KARL
DIRECTOR
NATIONAL CLIMATIC DATA CENTER
(Certifying Officer)



QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA
(may be updated)
HOURLY OBSERVATIONS TABLE
PHILADELPHIA INTERNATIONAL AIRPORT
(13739)
PHILADELPHIA, PA
(03/2014)

Elevation: 10 ft. above sea level
Latitude: 39.868
Longitude: -75.231
Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp (F) (C)		Wet Bulb Temp (F) (C)		Dew Point Temp (F) (C)		Rel Humid %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alli-meter (in. hg)
						(F)	(C)	(F)	(C)	(F)	(C)											
13	0054	11	BKN035 BKN050	10.00		25	-3.9	20	-6.4	8	-13.3	48	26	320	36	29.40			29.43	AA		29.43
13	0154	11	FEW033	10.00		24	-4.4	20	-6.8	8	-13.3	50	24	310	34	29.42			29.45	AA		29.45
13	0254	11	SCT038	10.00		23	-5.0	19	-7.4	6	-14.4	48	29	300	39	29.47			29.49	AA		29.50
13	0354	11	SCT039 SCT050	10.00		22	-5.6	17	-8.0	4	-15.6	46	33	310	43	29.52			29.54	AA		29.55
13	0454	11	FEW043 SCT120	10.00		21	-6.1	16	-8.6	2	-16.7	43	28	320	37	29.57			29.59	AA		29.60
13	0554	11	BKN043	10.00		21	-6.1	17	-8.5	3	-16.1	45	21	310	29	29.60			29.63	AA		29.63
13	0654	11	FEW043 SCT110	10.00		21	-6.1	17	-8.5	3	-16.1	45	21	300	33	29.64			29.67	AA		29.67
13	0754	11	SCT045 SCT120	10.00		22	-5.6	17	-8.3	1	-17.2	40	22	310	34	29.68			29.70	AA		29.71
13	0854	11	SCT047	10.00		24	-4.4	18	-7.5	1	-17.2	37	22	320	33	29.70			29.73	AA		29.73
13	0954	11	SCT048	10.00		25	-3.9	19	-6.9	3	-16.1	38	28	310	34	29.73			29.75	AA		29.76
13	1054	11	BKN047	10.00		25	-3.9	19	-6.9	3	-16.1	38	24	300	33	29.75			29.78	AA		29.78
13	1154	11	FEW050	10.00		28	-2.2	21	-6.1	0	-17.8	30	29	310	43	29.77			29.79	AA		29.80
13	1254	11	FEW060	10.00		30	-1.1	22	-5.6	4	-20.0	23	25	330	39	29.78			29.81	AA		29.81
13	1354	11	FEW065	10.00		31	-0.6	23	-5.1	2	-18.9	24	23	280	37	29.80			29.82	AA		29.83
13	1454	11	FEW070	10.00		33	0.6	24	-4.4	3	-19.4	21	21	290	31	29.82			29.85	AA		29.85
13	1554	11	FEW075	10.00		32	0.0	23	-4.9	4	-20.0	21	24	300	39	29.82			29.85	AA		29.85
13	1654	11	CLR	10.00		32	0.0	23	-4.9	5	-20.6	20	21	290	32	29.89			29.91	AA		29.92
13	1754	11	CLR	10.00		32	0.0	23	-4.9	5	-20.6	20	14	300	22	29.94			29.96	AA		29.97
13	1854	11	CLR	10.00		31	-0.6	22	-5.3	6	-21.1	20	18	290	25	29.99			30.01	AA		30.02
13	1954	11	CLR	10.00		31	-0.6	22	-5.3	6	-21.7	19	18	300	29	30.03			30.05	AA		30.06
13	2054	11	CLR	10.00		30	-1.1	22	-5.4	7	-18.9	25	14	280	28	30.07			30.09	AA		30.10
13	2154	11	CLR	10.00		30	-1.1	22	-5.4	7	-18.3	26	14	280	28	30.10			30.13	AA		30.13
13	2254	11	CLR	10.00		29	-1.7	22	-5.7	1	-18.3	27	13	280	28	30.13			30.16	AA		30.16
13	2354	11	CLR	10.00		28	-2.2	21	-6.0	0	-17.8	30	10	280	28	30.15			30.17	AA		30.18

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration

**QUALITY CONTROLLED LOCAL
CLIMATOLOGICAL DATA**
(may be updated)
HOURLY REMARKS OBSERVATIONS TABLE
PHILADELPHIA INTERNATIONAL AIRPORT
(13739)
PHILADELPHIA, PA
(03/2014)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28901

Elevation: 10 ft. above sea level
Latitude: 39.868
Longitude: -75.231
Data Version: VER2

Date	Time	Remarks
13	0054	AO2 PK WND 30031/0505 SLP967 60014 T10391133 10144 21039 53053 (LPA)
13	0154	AO2 PK WND 34037/0602 SLP973 T10441133 (LPA)EQDD10+000000ADE726
13	0254	AO2 PK WND 30038/0719 SLP988 T10501144 (LPA)EQDD10+000000ADE726
13	0354	AO2 PK WND 29040/0819 SLP004 T10561156 53038 (LPA)EQDD10+000000ADE726
13	0454	AO2 PK WND 33042/0933 SLP021 T10611167 (LPA)EQDD10+000000ADE726
13	0554	AO2 PK WND 32035/0959 SLP034 T10611161 (LPA)
13	0654	AO2 PK WND 32033/1104 SLP047 70028 T10611161 11039 21061 51042 (GAH)EQDD10+000000ADE726
13	0754	AO2 PK WND 30036/1204 SLP058 T10561172 (GAH)EQDD10+000000ADE726
13	0854	AO2 PK WND 30035/1339 SLP068 T10441172 (GAH)EQDD10+000000ADE726
13	0954	AO2 PK WND 33038/1409 SLP076 T10391161 51030 (GAH)
13	1054	AO2 PK WND 28033/1510 SLP085 T10391161 (GAH)
13	1154	AO2 PK WND 30037/1654 SLP089 T10221178 (GAH)
13	1254	AO2 PK WND 29038/1741 SLP094 T10111200 11011 21061 51018 (GAH)
13	1354	AO2 PK WND 28035/1837 SLP099 T10061189 (GAH)
13	1454	AO2 PK WND 31037/1940 SLP108 T00061194 (SDK)
13	1554	AO2 PK WND 30034/2048 SLP118 T00001200 53024 (SDK)
13	1654	AO2 PK WND 30033/2113 SLP130 T00001206 (SDK)
13	1754	AO2 PK WND 29032/2205 SLP147 T00001206 (SDK)
13	1854	AO2 PK WND 29027/2311 SLP164 T10061211 10006 21011 53045 (SDK)
13	1954	AO2 PK WND 29026/0001 SLP177 T10061217
13	2054	AO2 SLP191 T10111189
13	2154	AO2 SLP203 T10111183 51040
13	2254	AO2 SLP212 T10171183
13	2354	AO2 SLP217 T10221178 400061061

Dynamically generated Mon Mar 17 13:38:11 EDT 2014 via <http://cdo.ncdc.noaa.gov/qcled/QCLCD>