

Docket No. SA-538

Exhibit No. 6-B

NATIONAL TRANSPORTATION SAFETY BOARD

Washington, D.C.

FAA Tech Ops and flight inspection reports
(8 Pages)

United Parcel Service
Airbus A-300-600
Birmingham, Alabama
August 14, 2013
DCA13MA133

**National Transportation Safety Board
Washington, DC**

Survival Factors Group Chairman's Factual Report

Attachment 1

FAA Tech Ops and flight inspection reports

6 pages

TECHNICAL PERFORMANCE RECORD

PRECISION APPROACH PATH INDICATOR (PAPI)

FACILITY ID: **BXO PAPI** DATES FROM: **05/12/2011** TO: **8/14/13** SUPE: **[REDACTED]** 2/15/13

LOCATION: **Birmingham, Alabama** (CITY, STATE, AIRPORT, OTHER) EQUIPMENT TYPE: **NBP** COMMISSIONED ANGLE (DEG): **3.2**

Date	UTC Time	PCA Input Voltage (Vac)			PCA Input Current (Amps)		Loop 1 Current (Amps)		Loop 2 Current (Amps)		Photocell Control (Secs)		Angular Elevation (Deg/Min)				Elapsed Time (Hours)	Remarks	Initials
		L-1	L-2	L-3	L-1	L-2	High	Low	High	Low	High	Low	High	Low	LHA 1	LHA 2			
NOMINAL		120	120	240	12	12	4.5	6.4	4.5	6.4	<1 min	<1 MIN	3°42'	3°22'	3°02'	2°42'			
MINIMUM		108	108	216			4.2	6.2	4.2	6.2	STD	STD	3°36'	3°16'	2°46'	2°36'			
MAXIMUM		132	132	264			5.7	6.6	5.7	6.6	STD	STD	3°48'	3°28'	3°08'	2°48'			
05/12/11	2000	118	119	241	11.8	11.4	4.6	6.4	4.6	6.4	20Sec	18Sec	3°42'	3°22'	3°02'	2°42'		SA/14	
06/08/11	1300	121	120	242	12.1	12.2	4.5	6.4	4.5	6.4	155cc	85cc	3°42'	3°22'	3°02'	2°42'		7447.6 A/SA/M	
03/01/12	M30												3°42'	3°24'	3°02'	2°42'		R	
07/03/12	1800	120	121	241			4.5	6.2	4.5	6.2	15	15	3°42'	3°24'	3°02'	2°42'		NA/STEF	
06/05/12	1350	121	120	241	12.0	11.8	4.5	6.4	4.5	6.4	10	10	3°42'	3°22'	3°02'	2°42'		Q/SA/ANNUAL	
08/16/12	1351												3°42'	3°22'	3°02'	2°42'		N/Q	
09/19/12	1312	120	120	241.8	5.0	4.0	4.5	6.9	4.6	6.6	10	10						Performance Exam ADJUSTED SA LOOP CURRENT	
10/02/12	1300	121	121	242.1	5.0	4.1	4.5	6.4	4.5	6.4								1581.6	
11/08/12	2046												3°48'	3°28'	3°01'	2°48'		Q	
02/13/13	1631												3°42'	3°22'	3°01'	2°42'		Q	
03/14/13	1449	120.8	121	242.4	11.3	11.4	4.9	6.0	4.8	6.0								Cert Exam - Error	
03/14/13	1449	120.8	121	242.4	11.3	11.4	4.9	6.0	4.8	6.0								(P-1 EXAM - correct)	
03/14/13	1449	120.8	121	242.4	11.3	11.4	4.5	6.4	4.5	6.4			3°44'	3°22'	3°02'	2°42'		Cert Exam - correct	
05/08/13	1430	121	121	242	11.1	11.2	4.5	6.4	4.5	6.4	8	8	3°44'	3°22'	3°01'	2°42'		Q/SA/A	
8/14/13	233						4.7		4.7				3°43'	3°23'	3°01'	2°42'		Post Aircraft Au	

Electronic Version (Adobe) [REDACTED]

FAA Form 6850-2 (11/10)

I certify that the above post accident/incident data is a true record of the BXO PAPI parameters values as found and left at the date and time indicated.

OBSERVER: [REDACTED] Signature: [REDACTED] NAME: [REDACTED]

FLIGHT INSPECTION REPORT

NONDIRECTIONAL BEACON, DIRECTION FINDING,
VISUAL AIDS, COMMUNICATIONS

1. FLIGHT INSPECTION REPORT HEADER

2. CREW INFORMATION

IDENT	OWNER	STATE	CTRY	REGION	INSPECTION DATE(S)
KBHM18	F	AL	US	ASO	08/16/13
LOCATION					INSP TYPE
BIRMINGHAM					A

PIC	SIC	MS	A/C NO
VN128	VN126	VN142	N72
ACM			FIFO
			ATL

3. FACILITY INFORMATION

DIRECTION FINDING		NDB		FACILITY STATUS	Unrestricted
COMMUNICATIONS		NDB/DME		SIAP(s) VERIFIED	
VISUAL AIDS	Inspected				

4. NOTAMs

5. REMARKS

Special AA inspection A-08-100-13 to verify PAPI angle, satisfactory. Box 2 = 3.40, box 3 = 3.01.

6. FLIGHT INSPECTION DATA

A. NONDIRECTIONAL BEACON

RADIO CLASS CODE		IDENTIFICATION		INTERFERENCE		VOICE	
FREQUENCY		COVERAGE		OSCILLATIONS		BRG ACCURACY	
DME CHANNEL		STA PASSAGE		STANDBY EQUIP.		STANDBY POWER	

B. DIRECTION FINDING

STATION PASSAGE

STANDBY POWER

CHECKPOINT	AIRCRAFT ALTITUDE	AIRCRAFT DISTANCE	BEARING			FREQUENCY USED
			AIRCRAFT	DF	ERROR	

C. VISUAL AIDS

FACILITY INSPECTED

ALS

REIL

VASI

PAPI

OTHER*

RUNWAY(S) SERVED	18	INTENSITY	Sat	SEQUENCE FLASHERS		FOCUS AND ADJUST.	Sat	RUNWAY LIGHTS	
G.S. ANGLE	3.20/3.20	ANGULAR COVERAGE		OBST. CLEAR. (VGS)	Sat	COINC. (PAR/LS/MLS)		RADIO CTRL SYST.	

D. COMMUNICATIONS

APPROACH CONTROL	<input type="checkbox"/>	FSS	<input type="checkbox"/>	TOWER	<input type="checkbox"/>	CENTER	<input type="checkbox"/>	OTHER*	<input type="checkbox"/>	P/F	<input type="checkbox"/>	CS/T	<input type="checkbox"/>
FREQUENCY USED		PRIMARY		SECONDARY		VOICE QUALITY		COVERAGE		STANDBY POWER			

* Remarks are required for fields marked with an asterisk

FLIGHT INSPECTION REPORT

AFTER ACCIDENT CONTINUATION SHEET

1. GENERAL

A. Location	BIRMINGHAM
B. Ident	KBHM18
C. Facility Type	PRECISION APPROACH PATH INDICATOR
D. Date(s) of Inspection	08/16/13
E. Date & Time of Accident	08/14/13 1045Z
F. Aircraft Type & Number	AIRBUS A300F4-622R N155UP

2. OTHER INFORMATION

A. Procedures In Use at Time of Accident	BIRMINGHAM-SHUTTLESWORTH INTL AIRPORT, BIRMINGHAM, AL., LOC RWY 18, AMDT 2A
B. Equipment In Use at Time of Accident	PRECISION APPROACH PATH INDICATOR
C. Date & Time of After Accident Inspection	08/16/13 1825Z
D. Weather Conditions at Time of Accident	WIND VARIABLE 06 KNOTS, VISIBILITY 10 STATUTE MILES, CEILING 1500 OVERCAST, TEMPERATURE 21 CELSIUS, DEW POINT 17 CELSIUS, BAROMETRIC PRESSURE 30.10 INCHES
E. Procedures Inspected and Extent of Inspection	EVALUATED PRECISION APPROACH PATH INDICATOR LIGHTS PATH ANGLE AND OBSTACLE CLEARANCE
F. SIAP	
G. Name & Routing Symbol of Accident Coordinator/Investigator	XXXXXXXXXX AVP-100

3. REMARKS

FACILITY OPERATION FOUND SATISFACTORY

6941BG-02, 10C

AMIS

FLIGHT INSPECTION REPORT--NONDIRECTIONAL BEACON, DIRECTION FINDING, VISUAL AIDS, COMMUNICATIONS															REVIEW INITIALS 	
1. LOCATION: BIRMINGHAM AL											2. IDENT: BXO					
3. COMMON SYSTEM:					4. DATE/DATES OF INSPECTION: 01/11,21/99						5. OWNER: F					
6. TYPE OF INSPECTION																
<input checked="" type="checkbox"/> SITE EVALUATION <input checked="" type="checkbox"/> COMMISSIONING <input type="checkbox"/> PERIODIC SURVEILLANCE <input type="checkbox"/> SPECIAL INCOMPLETE																
7. FACILITY / COMPONENT INSPECTED																
DIRECTION FINDING					NDB			NDB / DME			COMMUNICATIONS		<input checked="" type="checkbox"/> VISUAL AIDS			
8. NONDIRECTIONAL BEACON																
RADIO CLASS CODE:					FREQUENCY:					DME CHANNEL:						
ITEMS CHECKED			SAT	UNSAT	ITEMS CHECKED			SAT	UNSAT	ITEMS CHECKED			SAT	UNSAT		
IDENTIFICATION					COVERAGE					STATION PASSAGE						
INTERFERENCE					NEEDLE OSCILLATIONS					STANDBY EQUIPMENT						
VOICE					BEARING ACCURACY					STANDBY POWER						
9. DIRECTION FINDING																
CHECKPOINT	AIRCRAFT ALTITUDE	AIRCRAFT DISTANCE	BEARING			FREQUENCY USED										
			AIRCRAFT	D F	ERROR											
STATION PASSAGE		SATISFACTORY			UNSATISFACTORY			STANDBY POWER		SATISFACTORY		UNSATISFACTORY				
10. VISUAL AIDS																
FACILITY INSPECTED		ALS		REIL		VASI		<input checked="" type="checkbox"/> PAPI		RUNWAY (S) SERVED: 18						
ITEMS CHECKED			SAT	UNSAT	ITEMS CHECKED			SAT	UNSAT	ITEMS CHECKED			SAT	UNSAT		
INTENSITY			<input checked="" type="checkbox"/>		ANGULAR COVERAGE			<input checked="" type="checkbox"/>		SEQUENCE FLASHERS						
GLIDE SLOPE ANGLE 320/310			<input checked="" type="checkbox"/>		OBST. CLEARANCE (VGS)			<input checked="" type="checkbox"/>		FOCUS AND ADJUSTMENTS			<input checked="" type="checkbox"/>			
COINCIDENCE (PAR/LS/MLS)					RUNWAY LIGHTS					RADIO CONTROL SYSTEM						
11. COMMUNICATIONS																
APPROACH CONTROL					F S S		TOWER		CENTER		OTHER					
FREQUENCY USED					PRIMARY		SECONDARY		VOICE QUALITY		COVERAGE		STANDBY POWER			
SAT		UNSAT		SAT		UNSAT		SAT		UNSAT		SAT		UNSAT		
12. APPROACH:																
SAT																
UNSAT																
13. REMARKS: COMMISSIONING A-10-103-8 RUNWAY 18 PAPI. ANGLE OF 3 10 DEGREES DETERMINED USING AFIS PAPI SUPPORTS BXO LOC RWY 18.																
FACILITY STATUS		NOTAM's:														
UNRESTRICTED <input checked="" type="checkbox"/>																
RESTRICTED																
UNUSABLE																
REGION: ASO		FLIGHT		WT		TECHN		AIRCRAFT NO:								
FIO: ATL								N68								

FEB 11 1999



6941BG-02, 10c

FLIGHT INSPECTION REPORT--NONDIRECTIONAL BEACON, DIRECTION FINDING, VISUAL AIDS, COMMUNICATIONS												REVIEW INITIALS					
1. LOCATION: BIRMINGHAM, AL										2. IDENT: BXO							
3. COMMON SYSTEM:				4. DATE(S) OF INSPECTION: 08/26/99						5. OWNER: F							
6. TYPE OF INSPECTION			SITE EVALUATION			PERIODIC			SPECIAL			UC					
			COMMISSIONING			SURVEILLANCE			INCOMPLETE								
7. FACILITY / COMPONENT INSPECTED			DIRECTION FINDING		NDB		NDB / DME		COMMUNICATIONS		VISUAL AIDS						
									X								
8. NONDIRECTIONAL BEACON																	
RADIO CLASS CODE:				FREQUENCY:				DME CHANNEL:									
ITEMS CHECKED		S A T		UNSAT		ITEMS CHECKED		S A T		UNSAT		ITEMS CHECKED		S A T		UNSAT	
IDENTIFICATION				COVERAGE				STATION PASSAGE									
INTERFERENCE				NEEDLE OSCILLATIONS				STANDBY EQUIPMENT									
VOICE				BEARING ACCURACY				STANDBY POWER									
9. DIRECTION FINDING																	
CHECKPOINT	AIRCRAFT ALTITUDE	AIRCRAFT DISTANCE	BEARING			FREQUENCY USED											
			AIRCRAFT	D F	ERROR												
STATION PASSAGE		SATISFACTORY		UNSATISFACTORY		STANDBY POWER		SATISFACTORY		UNSATISFACTORY							
10. VISUAL AIDS																	
FACILITY INSPECTED		ALS		REIL		VASI		PAPI		RUNWAY (S) SERVED: RWY 18							
ITEMS CHECKED		S A T		UNSAT		ITEMS CHECKED		S A T		UNSAT		ITEMS CHECKED		S A T		UNSAT	
INTENSITY		X				ANGULAR COVERAGE		--				SEQUENCE FLASHERS		--			
GLIDE SLOPE ANGLE *		X				OBST. CLEARANCE (VGS)		--				FOCUS AND ADJUSTMENTS		X			
COINCIDENCE (PAR/ILS/MLS)						RUNWAY LIGHTS		--				RADIO CONTROL SYSTEM					
11. COMMUNICATIONS																	
FACILITY STATUS				APPROACH CONTROL		F S S		TOWER		CENTER		OTHER					
UNRESTRICTED				X													
RESTRICTED																	
UNUSABLE																	
REGION: ASO				S A T		UNSAT		S A T		UNSAT		S A T		UNSAT			
FIO: ATL																	
12. APPROACH:												SAT					
												UNSAT					
13. REMARKS: A-08-101-9																	
SPECIAL INSPECTION TO CONFIRM PAPI ANGLE AFTER USER COMPLAINT REPORTING LOW ANGLE.																	
* FACILITY COMMISSIONED AT 3.20 DEGREES. PAPI ANGLE FOUND AT 3.16 DEGREES. FACILITY SATISFACTORY.																	
FACILITY STATUS		NOTAM's:															
UNRESTRICTED		X															
RESTRICTED																	
UNUSABLE																	
REGION: ASO		TECHNICIAN'S SIGNATURE:						AIRCRAFT NO.:									
FIO: ATL		N/A						N80									

OCT 01 1999

6941BG-02



**FLIGHT INSPECTION REPORT--NONDIRECTIONAL BEACON,
DIRECTION FINDING, VISUAL AIDS, COMMUNICATIONS**

REVIEW INITIALS

7/19/05

1. LOCATION: BIRMINGHAM, AL		2. IDENT: KBHM18	
3. COMMON SYSTEM:	4. DATE/DATES OF INSPECTION: 7/7/05	5. OWNER: F	
6. TYPE OF INSPECTION	SITE EVALUATION	<input checked="checked" type="checkbox"/> PERIODIC	SPECIAL
	COMMISSIONING	SURVEILLANCE	INCOMPLETE
7. FACILITY / COMPONENT INSPECTED	DIRECTION FINDING	NDB	NDB / DME
		COMMUNICATIONS	<input checked="checked" type="checkbox"/> VISUAL AIDS

8. NONDIRECTIONAL BEACON

RADIO CLASS CODE:		FREQUENCY:		DME CHANNEL:	
ITEMS CHECKED	S A T	UNSAT	ITEMS CHECKED	SAT	UNSAT
IDENTIFICATION			COVERAGE		
INTERFERENCE			NEEDLE OSCILLATIONS		
VOICE			BEARING ACCURACY		

9. DIRECTION FINDING

CHECKPOINT	AIRCRAFT ALTITUDE	AIRCRAFT DISTANCE	BEARING			FREQUENCY USED
			AIRCRAFT	D F	ERROR	

STATION PASSAGE SATISFACTORY UNSATISFACTORY STANDBY POWER SATISFACTORY UNSATISFACTORY

10. VISUAL AIDS

FACILITY INSPECTED	ALS	REIL	VASI	<input checked="checked" type="checkbox"/> PAPI	RUNWAY (S) SERVED: 18
ITEMS CHECKED	S A T	UNSAT	ITEMS CHECKED	SAT	UNSAT
INTENSITY	<input checked="checked" type="checkbox"/>		ANGULAR COVERAGE		
GLIDE SLOPE ANGLE 3.20/3.09	<input checked="checked" type="checkbox"/>		OBST. CLEARANCE (VGS)	<input checked="checked" type="checkbox"/>	
COINCIDENCE (PAR/ILS/MLS)			RUNWAY LIGHTS		

11. COMMUNICATIONS

FREQUENCY USED	APPROACH CONTROL		F S S		TOWER	CENTER	OTHER	
	S A T	UNSAT	S A T	UNSAT	S A T	UNSAT	S A T	UNSAT

12. REMARKS:

FACILITY STATUS	NOTAM's:
UNRESTRICTED <input checked="checked" type="checkbox"/>	
RESTRICTED	
UNUSABLE	
REGION: ASO	FLIGHT INSPECTOR SIGNATURE: [Signature] JR
FIO: ATL	DATE: 7/11/05
	TECHNICIAN'S SIGNATURE: [Signature]
	AIRCRAFT NO.: N81

RECORDINGS RECEIVED JUL 29 2005