

**Docket No. SA-538**

**Exhibit No. 2-P**

**NATIONAL TRANSPORTATION SAFETY BOARD**

**Washington, D.C.**

Attachment 15 – BHM Landing Performance  
(4 Pages)



## **NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

February 3, 2014

### **Attachment 15 – BHM Landing Performance Data**

# **OPERATIONAL FACTORS**

**DCA13MA133**

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# BMH LANDING PERFORMANCE DATA

BIRMINGHAM, ALABAMA, UNITED STATES BIRMINGHAM-SHUTTLESWORTHINTL KBHM/BHM  
 ATIS: 119.40

AIRBUS A300-622R SLATS 15/FLAPS 20 ELEV. 650FT  
 LANDING PERFORMANCE MAX TEMP 53C  
 A/C PACKS ON PW4158 ENGINE

TEMPERATURE	-40	29	30	35	40	45	50
LND CLMB LMT	375.9	375.9	375.9	374.7	359.2	343.0	326.8
TEMPERATURE	53						
LND CLMB LMT	317.0						

RUNWAY LIMITS  
 FOR HEADWIND CORRECTION ADD 800 LBS / KT

RUNWAY	EFF LGTH FT	ZERO WIND WEIGHT	LANDING WEIGHT WITH TAILWIND - LBS				
			2 KTS	4 KTS	6 KTS	8 KTS	10 KTS
06 WET*	10008	375.9	375.9	375.9	374.6	369.1	363.9
06 WET	11998	375.9	375.9	375.9	375.9	375.9	375.9
18 WET	7099	326.2	317.8	309.8	300.5	291.3	281.7
24 WET*	10060	375.9	375.9	375.9	375.6	370.1	364.8
24 WET	10801	375.9	375.9	375.9	375.9	375.9	375.9
36 WET	7099	326.2	317.8	309.8	300.5	291.3	281.7
06 DRY*	10008	375.9	375.9	375.9	375.9	375.9	375.9
06 DRY	11998	375.9	375.9	375.9	375.9	375.9	375.9
18 DRY	7099	355.6	349.3	342.3	335.7	329.1	321.5
24 DRY*	10060	375.9	375.9	375.9	375.9	375.9	375.9
24 DRY	10801	375.9	375.9	375.9	375.9	375.9	375.9
36 DRY	7099	355.6	349.3	342.3	335.7	329.1	321.5

RUNWAY	EFF LGTH FT	GROUND SPOILERS INOP		ANTI-SKID INOP/BRAKE DEAC		WEIGHT REF TW	
		WEIGHT	REF TW	WEIGHT	REF TW	WEIGHT	REF TW
06 WET*	10008	343.8	0 KTS	359.2	0 KTS	375.9	6 KTS
06 WET	11998	375.9	0 KTS	375.9	2 KTS	375.9	10 KTS
18 WET	7099	246.3	99 KTS	274.6	0 KTS	325.7	0 KTS
24 WET*	10060	344.9	0 KTS	360.1	0 KTS	375.9	6 KTS
24 WET	10801	358.5	0 KTS	372.6	0 KTS	375.9	10 KTS
36 WET	7099	246.3	99 KTS	274.6	0 KTS	325.7	0 KTS
06 DRY*	10008	369.6	0 KTS	375.9	0 KTS	N/A	0 KTS
06 DRY	11998	375.9	6 KTS	375.9	10 KTS	N/A	0 KTS
18 DRY	7099	293.6	0 KTS	315.6	0 KTS	N/A	0 KTS
24 DRY*	10060	370.5	0 KTS	375.9	0 KTS	N/A	0 KTS
24 DRY	10801	375.9	0 KTS	375.9	4 KTS	N/A	0 KTS
36 DRY	7099	293.6	0 KTS	315.6	0 KTS	N/A	0 KTS

\* - See \*\*\* LANDING NOTES \*\*\* at end of Landing Performance page

TAILWIND CORRECTION:  
 SUBTRACT 7600 LBS PER EACH KNOT ABOVE THE REFERENCE TAILWIND (REF TW)

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 \* OBSERVE STRUCTURAL LIMIT \*  
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MAXIMUM LANDING WEIGHT FOR THERMAL PLOG INTEGRITY:  
 DO NOT BLOCK OUT UNTIL BRAKE TEMP WARNING LIGHT EXTINGUISHES

\*\*\* LANDING NOTES \*\*\*  
 06 : RWY 24 THR DSPLCD 1938, EXIT M  
 24 : RWY 24 THR DSPLCD 1938

DATED: 8/5/2013

BIRMINGHAM, ALABAMA, UNITED STATES BIRMINGHAM-SHUTTLESWORTHINTL KBHM/BHM  
 ATIS: 119.40

AIRBUS A300-622R SLATS 30/FLAPS 40 ELEV. 650FT  
 LANDING PERFORMANCE MAX TEMP 53C  
 A/C PACKS ON PW4158 ENGINE

TEMPERATURE	-40	29	30	35	40	45	50
LND CLMB LMT	375.9	375.9	373.3	358.9	344.2	328.6	313.1
TEMPERATURE	53						
LND CLMB LMT	303.8						

RUNWAY LIMITS  
 FOR HEADWIND CORRECTION ADD 800 LBS / KT

RUNWAY	EFF LGTH FT	LANDING WEIGHT WITH TAILWIND - LBS						
		ZERO WIND WEIGHT	2 KTS	4 KTS	6 KTS	8 KTS	10 KTS	
06 WET*	10008	375.9	375.9	375.9	375.9	375.9	375.9	
06 WET	11998	375.9	375.9	375.9	375.9	375.9	375.9	
18 WET	7099	361.0	354.8	347.4	339.8	332.6	324.4	
24 WET*	10060	375.9	375.9	375.9	375.9	375.9	375.9	
24 WET	10801	375.9	375.9	375.9	375.9	375.9	375.9	
36 WET	7099	361.0	354.8	347.4	339.8	332.6	324.4	
06 DRY*	10008	375.9	375.9	375.9	375.9	375.9	375.9	
06 DRY	11998	375.9	375.9	375.9	375.9	375.9	375.9	
18 DRY	7099	375.9	375.9	374.2	367.9	362.0	356.5	
24 DRY*	10060	375.9	375.9	375.9	375.9	375.9	375.9	
24 DRY	10801	375.9	375.9	375.9	375.9	375.9	375.9	
36 DRY	7099	375.9	375.9	374.2	367.9	362.0	356.5	

RUNWAY	EFF LGTH FT	GROUND SPOILERS INOP		ANTI-SKID INOP/BRAKE DEAC		WEIGHT REF TW	
		WEIGHT	REF TW	WEIGHT	REF TW	WEIGHT	REF TW
06 WET*	10008	375.9	0 KTS	375.9	2 KTS	375.9	10 KTS
06 WET	11998	375.9	8 KTS	375.9	10 KTS	375.9	10 KTS
18 WET	7099	295.4	0 KTS	319.7	0 KTS	373.0	0 KTS
24 WET*	10060	375.9	0 KTS	375.9	2 KTS	375.9	10 KTS
24 WET	10801	375.9	2 KTS	375.9	6 KTS	375.9	10 KTS
36 WET	7099	295.4	0 KTS	319.7	0 KTS	373.0	0 KTS
06 DRY*	10008	375.9	5 KTS	375.9	10 KTS	N/A	0 KTS
06 DRY	11998	375.9	10 KTS	375.9	10 KTS	N/A	0 KTS
18 DRY	7099	335.2	0 KTS	353.5	0 KTS	N/A	0 KTS
24 DRY*	10060	375.9	6 KTS	375.9	10 KTS	N/A	0 KTS
24 DRY	10801	375.9	10 KTS	375.9	10 KTS	N/A	0 KTS
36 DRY	7099	335.2	0 KTS	353.5	0 KTS	N/A	0 KTS

\* - See \*\*\* LANDING NOTES \*\*\* at end of Landing Performance page

TAILWIND CORRECTION:  
 SUBTRACT 7600 LBS PER EACH KNOT ABOVE THE REFERENCE TAILWIND (REF TW)

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 \* OBSERVE STRUCTURAL LIMIT \*  
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MAXIMUM LANDING WEIGHT FOR THERMAL FLOG INTEGRITY:  
 DO NOT BLOCK OUT UNTIL BRAKE TEMP WARNING LIGHT EXTINGUISHES

\*\*\* LANDING NOTES \*\*\*  
 06 : RWY 24 THR DSPLCD 1938, EXIT M  
 24 : RWY 24 THR DSPLCD 1938

DATED: 8/5/2013