

National Transportation Safety Board

Office of Railroad, Pipeline and Hazardous Materials

Washington, DC 20594



PLD24FR003

METEOROLOGY

Specialist's Factual Report

November 20, 2024

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A. ACCIDENT

Location 1: 185 Bristol Blvd., Jackson, Mississippi
Date: Wednesday, January 24, 2024
Time: about 0814 central standard time (CST)
1414 coordinated universal time (UTC)

Location 2: 1146 Shalimar Drive, Jackson, Mississippi
Date: Saturday, January 27, 2024
Time: 0434 CST
1034 UTC

B. METEOROLOGY SPECIALIST

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National Transportation Safety Board
Washington, D.C.

C. SUMMARY

On January 24, 2024, about 0814 central standard time (CST), a home explosion and fire occurred at 185 Bristol Blvd. (location 1) in Jackson, Mississippi, resulting in one injury. While the National Transportation Safety Board (NTSB) investigation team was traveling to the scene, the NTSB learned of a second home explosion and fire. The second explosion occurred at 1146 Shalimar Drive (location 2) about 0434 CST on January 27, 2024, about 0.7 miles southeast of the first explosion, and the fire from the explosion spread to a neighboring home. All three homes were destroyed. Weather conditions on January 24, 2024, were light to heavy rain and thunderstorms with a temperature of about 62°F; on January 27, 2024, there was light to heavy rain with a temperature of about 61°F.

D. DETAILS OF THE INVESTIGATION

The National Transportation Safety Board's (NTSB) Senior Meteorologist was not on scene for this investigation and conducted the meteorology phase of the investigation remotely, collecting data from official National Weather Service (NWS) sources including the Weather Prediction Center (WPC) and the National Center for Environmental Information (NCEI). All times are central standard time (CST) based upon the 24 hour clock, local time is +6 hours to UTC, and UTC=Z. Directions are referenced to true north and distances in nautical miles. Heights are in feet (ft) above

mean sea level (msl) unless otherwise noted. Visibility is in statute miles and fractions of statute miles.

The accident site (location 1) was located at latitude 32.28803° N and longitude 90.244436° W at an elevation of approximately 360 ft. The second gas explosion (location 2) occurred at latitude 32.279167°N and latitude 90.238889°W at 366 ft.

E. FACTUAL INFORMATION

1.0 Observations

The closest official weather reporting facility to the accident site was from Hawkins Field Airport (KHKS), Jackson, Mississippi, which reported an elevation of 341 ft. The airport had an Automated Surface Observation System (ASOS). The officially reported observations surrounding the time of the accidents were as follows. Cloud heights are report in feet above ground level (agl).

1.1 January 24, 2024, Weather Conditions

Location 1 was located at 185 Bristol Boulevard, Jackson, MS, or about 3 ½ miles south of KHKS. At the approximate time of the accident the following conditions were reported.

Weather observation for KHKS at 0753 CST, wind from 060° at 6 knots, visibility 4 miles with thunderstorms in the vicinity, moderate rain and mist, scattered clouds at 6,000 ft agl, overcast at 7,500 ft, temperature 62°F (17°C), dew point temperature 62°F (17°C), altimeter setting 30.03 inches of mercury (inHg). Remarks: automated observation system with a precipitation discriminator, lightning distant in all quadrants, thunderstorm ended at 0731, began again at 0732 and ended at 0747 CST, sea-level pressure 1016.4-hPa, hourly precipitation 0.30 inches, temperature 16.7°C, dew point temperature 16.7°C.

Special weather observation for KHKS at 0819 CST, wind from 050° at 6 knots, visibility 3 miles, thunderstorms and moderate rain and mist, a few clouds at 1,300 ft agl, broken clouds at 4,600 ft, and overcast clouds at 7,000 ft, temperature of 62°F (17°C), dew point temperature 62°F (17°C), altimeter setting 30.02 inHg. Remarks: automated observation system with a precipitation discriminator, lightning distant in all quadrants, thunderstorm began at 0813 CST, pressure falling rapidly, hourly precipitation 0.11 inches, temperature 16.7°C, dew point temperature 16.7°C.

A review of the observations surrounding the time of the accident noted light to heavy rain and thunderstorms in the area between 0342 through 1637 CST. At KHKS

there was about 1.32 inches of rain reported near the time of the accident, with heavy rain continuing through the period. The 24-hour rainfall accumulation was 2.76 inches.

Time (CST)	T (F)	Td (F)	RH (%)	Wind Dir	Speed (mph)	VIS (SM)	WX	Clouds (X100ft)	ALT (inHg)	1-hr (in)	6-hr (in)
0053	63	61	93	130	11	10		OVC007	30.05		
0153	64	62	93	140	12	10		OVC007	30.03		
0253	64	62	93	130	9	8		OVC006	30.01		
0353	64	62	93	120	12	10	-RA	OVC007	29.98		
0453	64	62	93	130	8	10	-RA	OVC008	29.99		
0535	64	63	93	090	7	4	+RA BR VCTS	OVC008	29.96		
0543	64	63	94	090	7	7	-TSRA	OVC008	29.95		
0553	64	63	96	080	9	10	VCTS -RA	OVC008	29.96		
0603	64	62	96	070	7	10	-TSRA	OVC006	29.96		
0622	63	62	98	340	12	¾	+TSRA	OVC006	30.01		
0631	63	63	100	320	10	¾	VCTS +RA BR	SCT006 OVC012	30.03		
0638	63	63	100	320	8	1	+TSRA BR	FEW006 OVC016	30.04		
0653	63	63	100	110	5	2	+TSRA BR	FEW025 OVC031	30.04		
0727	63	62		100	7	4	TSRA BR	BKN075 OVC100	30.04	0.24	
0753	62	62		060	6	4	VCTS RA BR	SCT006 OVC075	30.03	0.30	
0819	62	62		050	6	3	TSRA BR	BKN046 OVC070	30.02		
0839	62	62		090	6	2 ½	+TSRA BR	FEW010 OVC040	30.05	0.21	
0846	62	62		070	5	4	VCTS RA BR	FEW010 OVC039	30.05	0.24	
0853	62	62		060	4	4	TSRA BR	FEW010 OVC028	30.05		
0900	62	62		040	5	3	+TSRA BR	FEW005 OVC028	30.05	0.03	
0910	62	62		010	3	3	TSRA BR	FEW005 OVC032	30.05	0.07	
0925	62	62		000	0	3	VCTS RA BR	FEW005 OVC036	30.07	0.11	
1351	63	63		290	5	1 ¾	+RA BR	OVC003	30.08	0.04	
1353	63	62		300	6	1 ¾	RA BR	OVC003	30.08	0.04	
1401	63	62		300	6	3	RA BR	BKN003 OVC011	30.09	0.01	
1408	63	62		320	5	2	RA BR	BKN003 OVC024	30.07	0.02	
1424	63	63	100	000	0	3	-RA BR	SCT003 OVC039	30.07	0.06	
1453	62	62	100	120	4	6	-RA BR	SCT003 OVC055	30.03	0.06	0.14
1521	63	63	100	080	3	6	BR	BKN002 OVC080	30.01	0.00	
1553	63	62	97	100	3	4	BR	SCT002 OVC075	30.02	0.00	
1653	62	62	100	160	4	4	BR	BKN080 OV110	30.05	0.01	

1753	63	62	97	110	5	10		SCT070 BKN090	30.03		0.15
1804	62	62		140	6	10		BKN004	30.03		
1853	63	63	100	000	0	9		OVC003	30.03	0.00	
1932	62	62	100	000	0	7	-RA	FEW004 OVC080	30.06	0.00	
1953	62	62		280	4	10		FEW004 OVC080	30.09	0.00	
2053	63	62		310	6	6	RA BR	OVC100	30.11	0.07	0.07
2153	62	62		040	5	6	-RA BR	OVC100	30.03	0.11	
2210	62	62		VRB	3	10	-RA	SCT005 BKN110	30.04	0.00	
2227	62	61		340	3	10		BKN003 BKN110	30.04	0.00	
2253	61	60		320	3	9		FEW003 BKN090	30.05	0.00	
2332	60	60	100	320	3	9		FEW003 BKN090	30.07		
2353	60	60	100	000	0	2 ½	BR	BKN002 OVC085	30.07	0.04	0.22

A depiction of the conditions from the NWS Aviation Weather Center's Observations with the regional radar mosaic overlaid for 0730 CST is included as figure 1 with the approximate accident site marked by a red star. The image depicted a line of thunderstorms with moderate to heavy rain moving over the accident site with a large band of precipitation following the line.

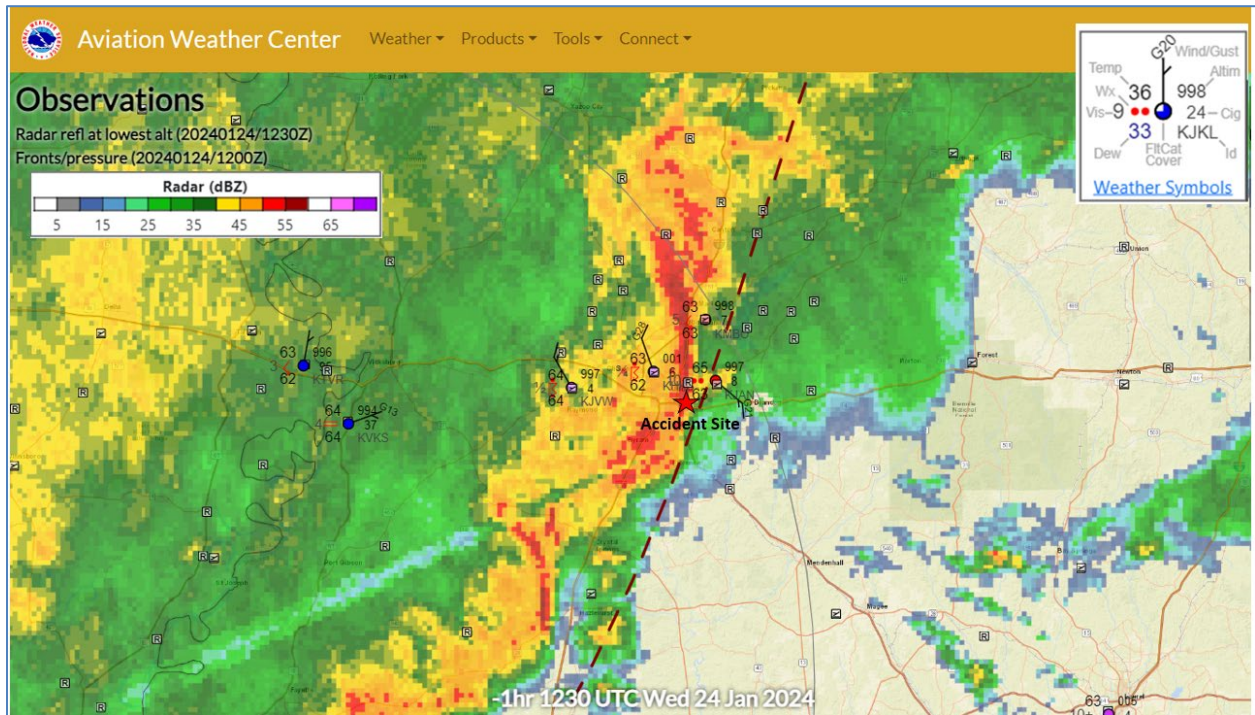


Figure 1 - NWS Aviation Weather Center's Observation displays for 0730 CST with the regional radar display overlaid.

The observations in standard METAR format surrounding the period were as follows, with the observation decoded above in bold type.

METAR KHKS 240853Z AUTO 13009KT 8SM OVC006 18/17 A3001 RMK AO2 SLP157 T01780167 58014

METAR KHKS 240953Z AUTO 12012KT 10SM -RA OVC007 18/17 A2998 RMK AO2 LTG DSNT N AND NW RAB42 PRESFR SLP144 P0000 T01780167

METAR KHKS 241053Z AUTO 13008KT 10SM -RA OVC008 18/17 A2999 RMK AO2 LTG DSNT S AND SW CIG 007V011 SLP149 P0002 T01780167

SPECI KHKS 241135Z AUTO 09007KT 4SM VCTS +RA BR OVC008 18/17 A2996 RMK AO2 LTG DSNT SW AND W CIG 006V011 P0012 T01780172

SPECI KHKS 241143Z AUTO 09007KT 7SM -TSRA OVC008 18/17 A2995 RMK AO2 LTG DSNT SW AND W TSB37 CIG 006V011 P0012 T01780172

METAR KHKS 241153Z AUTO 08009KT 10SM VCTS -RA OVC008 18/17 A2996 RMK AO2 LTG DSNT SW -NW TSB37E52 CIG 006V011 SLP138 P0013 60015 70017 T01780172 10178 20172 56018

SPECI KHKS 241203Z AUTO 07007KT 10SM -TSRA OVC006 18/17 A2996 RMK AO2 LTG DSNT ALQDS TSB1157 CIG 006V009 P0003 T01780167

SPECI KHKS 241222Z AUTO 34012G28KT 3/4SM +TSRA BR OVC006 17/17 A3001 RMK AO2 PK WND 29028/1216 LTG DSNT ALQDS TSB1157 P0049 T01720167

SPECI KHKS 241231Z AUTO 32010G23KT 3/4SM VCTS +RA BR SCT006 OVC012 17/17 A3003 RMK AO2 PK WND 29028/1216 LTG DSNT ALQDS TSB1157E31 P0065 T01720172

SPECI KHKS 241238Z AUTO 32008G21KT 1SM +TSRA BR FEW006 OVC016 17/17 A3004 RMK AO2 PK WND 29028/1216 LTG DSNT ALQDS TSB1157E31B38 P0080 T01720172

METAR KHKS 241253Z 11005KT 2SM +TSRA BR FEW025 OVC031 17/17 A3004 RMK AO2 PK WND 29028/1216 LTG DSNT ALQDS TSB1157E31B38 SLP165 P0102 T01720172

SPECI KHKS 241327Z 10007KT 4SM TSRA BR SCT045 BKN075 OVC100 17/17 A3004 RMK AO2 LTG DSNT ALQDS P0024 T01720167

METAR KHKS 241353Z 06006KT 4SM VCTS RA BR SCT060 OVC075 17/17 A3003 RMK AO2 LTG DSNT ALQDS TSE31B32E47 SLP164 P0030 T01670167

SPECI KHKS 241419Z 05006KT 3SM TSRA BR FEW013 BKN046 OVC070 17/17 A3002 RMK AO2 LTG DSNT ALQDS TSB13 PRESFR P0011 T01670167

SPECI KHKS 241439Z 09006KT 2 1/2SM +TSRA BR FEW010 OVC040 17/17 A3005 RMK AO2 LTG DSNT ALQDS TSB13 P0021 T01670167

SPECI KHKS 241446Z 07005KT 4SM VCTS RA BR FEW010 BKN039 OVC075 17/17 A3005 RMK AO2 LTG DSNT ALQDS TSB13E46 P0024 T01670167

METAR KHKS 241453Z 06004KT 4SM TSRA BR FEW010 BKN028 OVC075 17/17 A3005 RMK AO2 LTG DSNT ALQDS TSB13E46B49 SLP170 P0026 60158 T01670167 51031

SPECI KHKS 241500Z 04005KT 3SM +TSRA BR FEW005 SCT011 OVC028 17/17 A3005 RMK AO2 LTG DSNT ALQDS P0003 T01670167

SPECI KHKS 241510Z 01003KT 3SM TSRA BR FEW005 BKN032 OVC075 17/17 A3005 RMK AO2 LTG DSNT ALQDS P0007 T01670167

SPECI KHKS 241525Z 00000KT 3SM VCTS RA BR FEW005 OVC036 17/17 A3007 RMK AO2 LTG DSNT ALQDS TSE19 P0011 T01670167

GAPE IN DATA

SPECI KHKS 241951Z 29005KT 1 3/4SM +RA BR OVC003 17/17 A3008 RMK AO2 LTG DSNT S P0004

METAR KHKS 241953Z 30006KT 1 3/4SM RA BR OVC003 17/17 A3008 RMK AO2 LTG DSNT S SLP178 P0004 T01720167

SPECI KHKS 242001Z 30006KT 3SM RA BR BKN003 OVC011 17/17 A3009 RMK AO2 P0001 T01720167

SPECI KHKS 242008Z 32005KT 2SM RA BR BKN003 OVC024 17/17 A3007 RMK AO2 P0002 T01720167

SPECI KHKS 242024Z 00000KT 3SM -RA BR SCT003 BKN039 OVC090 17/17 A3007 RMK AO2 P0006 T01720172

METAR KHKS 242053Z 12004KT 6SM -RA BR SCT003 SCT055 BKN070 17/17 A3003 RMK AO2 SLP163 P0006 60014 T01670167 50007

1.2 January 27, 2024, Weather Conditions

Location 2 at 1146 Shalimar Drive, Jackson, MS, was located about 3.5 miles south of KHKS. The conditions reported at the time of that explosion was as follows.

Special weather observation for KHKS at 0435 CST, automated, wind from 130° at 11 knots, visibility 1 ¾ mile in heavy rain and mist, a few clouds at 600 ft agl, broken clouds at 1,700 ft, overcast at 2,500 ft, temperature 62°F (17°C), dew point temperature 62°F (17°C), altimeter setting 29.94 inHg. Remarks: automated station with a precipitation discriminator, hourly precipitation 0.29 inches, temperature 16.7°C, dew point temperature 16.7°C, maintenance indicator on (\$).

A review of the observations indicated that rain began at 1756 CST on January 26th and continued into the morning hours and ending at 0514 CST on January 27th, with approximately 1.45 inches of rainfall. The raw observations surrounding the period of the gas explosion were as follows.

METAR KHKS 270853Z AUTO VRB03KT 4SM +RA BR OVC010 17/16 A2996 RMK AO2 LTG DSNT SW RAE06B17 CIG 007V012 SLP139 P0009 60036 T01720161 57006 \$=

SPECI KHKS 270905Z AUTO 18004KT 2 1/2SM +RA BR BKN009 OVC015 17/17 A2999 RMK AO2 LTG
DSNT SW CIG 007V012 PRESRR P0007 T01720167 \$=

SPECI KHKS 270919Z AUTO 36003KT 2 1/2SM RA BR BKN011 BKN016 OVC028 17/17 A2996 RMK AO2
P0014 T01670167 \$=

SPECI KHKS 270924Z AUTO 05004KT 3SM RA BR BKN009 BKN014 OVC028 17/17 A2996 RMK AO2
P0015 T01720167 \$=

SPECI KHKS 270942Z AUTO 07004KT 2 1/2SM +RA BR BKN008 BKN013 OVC025 17/17 A2995 RMK
AO2 P0026 T01670167 \$=

METAR KHKS 270953Z AUTO 06004KT 2 1/2SM +RA BR BKN008 OVC015 17/17 A2994 RMK AO2
SLP131 P0033 T01670167 \$=

SPECI KHKS 271001Z AUTO 00000KT 3SM RA BR BKN006 OVC011 17/17 A2996 RMK AO2 P0003
T01670167 \$=

SPECI KHKS 271005Z AUTO 00000KT 1 3/4SM +RA BR BKN006 OVC015 17/17 A2995 RMK AO2 P0006
T01670167 \$=

SPECI KHKS 271021Z AUTO 14008KT 2SM +RA BR SCT006 BKN014 OVC020 17/16 A2995 RMK AO2
P0018 T01670161 \$=

Location 2 at 1034Z January 27, 2024

**SPECI KHKS 271035Z AUTO 13011KT 1 3/4SM +RA BR FEW006 BKN017 OVC025 17/17 A2994
RMK AO2 P0029 T01670167 \$=**

SPECI KHKS 271042Z AUTO 14012G23KT 2 1/2SM +RA BR FEW012 BKN017 OVC027 17/16 A2992 RMK
AO2 PRESFR P0033 T01720161 \$=

SPECI KHKS 271051Z AUTO 14010KT 5SM -RA BR FEW008 BKN018 OVC025 17/16 A2993 RMK AO2
P0035 \$=

METAR KHKS 271053Z AUTO 14009KT 6SM -RA BR SCT008 BKN018 OVC025 17/16 A2992 RMK AO2
SLP126 P0036 T01720161 \$=

SPECI KHKS 271126Z AUTO 14009KT 10SM SCT009 BKN014 17/16 A2988 RMK AO2 RAE14 P0000
T01720161 \$=

METAR KHKS 271153Z AUTO 17010KT 10SM FEW009 BKN015 17/16 A2989 RMK AO2 RAE14 SLP115
P0000 60105 70119 T01720161 10172 20161 58016 \$=

1.3 Weather conditions through period in table format

The previous weather conditions from January 17th through January 27th, 2024, in table format with time (UTC), sea-level pressure, altimeter setting (inHg), temperature (°F), dew point temperature (°F), relative humidity (RH%), wind direction and speed (kt) and gusts, visibility, cloud cover, Weather, and hourly precipitation, and 6-hour totals precipitation. Cloud cover is provided as clear (CLR), scattered (SCT),

broken (KBN) and or overcast (OVC). Weather codes identified below include mist (BR), fog (FG), rain (RA), thunderstorm (TS) with precipitation intensity identified as light (-), moderate (), or heavy (+).

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUST	VIS	CLOUDS	WX	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg/kt	mile	SM				in	In
HKS	17/2353		30.28	34	6	30	170	4		10.0	CLR			
HKS	17/2253		30.28	36	6	28	150	5		10.0	CLR			
HKS	17/2153		30.29	38	4	24	190	6		10.0	CLR			
HKS	17/2053		30.30	37	3	23	0	0		10.0	CLR			
HKS	17/1953		30.31	35	3	25	0	0		10.0	CLR			
HKS	17/1853		30.35	32	3	29	VRB	3		10.0	CLR			
HKS	17/1753		30.39	29	4	34	180	4		10.0	CLR			
HKS	17/1653			26	4	38	VRB	3		10.0				
HKS	17/1553			23	3	41	0	0		10.0	CLR			
HKS	17/1453													
HKS	17/1353		30.42	10	5	80	150	4		10.0	CLR			
HKS	17/1253	1029.9	30.41	10	5	80								
HKS	17/1153		30.39											
HKS	17/1053		30.39											
HKS	17/0953		30.39											
HKS	17/0853		30.40											
HKS	17/0753		30.40											
HKS	17/0653		30.39											
HKS	17/0553		30.39											
HKS	17/0453		30.40											
HKS	17/0353	1029.4	30.40	14	4	64								
HKS	17/0253		30.39											
HKS	17/0153		30.38											
HKS	17/0053	1028.4	30.37	18	6	59								

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	WX	P01	PCP
	DD/HHMM	hPa	inHg	°F	°F	%	deg	ktGkt	mile				in	in
HKS	18/2353	1013.2	29.93	52	47	83	180	6		10.0	OVC012			
HKS	18/2253	1012.5	29.91	52	46	80	160	10		10.0	OVC014			
HKS	18/2153	1013.0	29.93	53	45	74	170	13		10.0	OVC015			
HKS	18/2053	1013.5	29.94	54	45	71	170	11		10.0	OVC017			
HKS	18/1953	1014.2	29.96	52	43	71	160	15G19		10.0	OVC016			
HKS	18/1853	1015.7	30.00	50	43	77	180	14G24		10.0	SCT029 BKN070		0.00	
HKS	18/1753	1017.4	30.05	46	40	79	170	12		10.0	BKN024 OVC033	-RA	0.00	0.00
HKS	18/1653	1018.4	30.08	44	35	70	150	3		0.0	OVC022		0.00	
HKS	18/1553	1018.7	30.09	42	34	73	120	4		5.0	SCT017 OVC022	-RA	0.00	
HKS	18/1453	1018.2	30.08	41	30	65	140	7		10.0	BKN023 OVC055			
HKS	18/1353	1018.1	30.07	37	24	59	150	7		10.0	OVC045			
HKS	18/1253	1018.6	30.09	36	21	54	140	9		10.0	BKN030 OVC037			
HKS	18/1153	1019.7	30.12	35	16	45	150	7		10.0	BKN026 OVC037			
HKS	18/1053	1020.1	30.13	34	15	45	140	7		10.0	SCT021 OVC036			
HKS	18/0953	1020.9	30.16	33	14	45	170	6		10.0	OVC030			
HKS	18/0853	1021.2	30.17	32	15	49	140	6		10.0	OVC030			
HKS	18/0753	1021.1	30.16	28	14	55	140	7		10.0	CLR			
HKS	18/0653	1021.5	30.17	26	13	57	140	5		10.0	CLR			
HKS	18/0553	1022.9	30.21	28	12	51	130	5		10.0	CLR			
HKS	18/0453	1023.7	30.24	27	12	53	140	5		10.0	CLR			
HKS	18/0353	1023.2	30.22	29	11	46	130	6		10.0	CLR			
HKS	18/0253		30.23	30	9	41	110	5		10.0	CLR			
HKS	18/0153	1024.8	30.27	30	9	41	130	3		10.0	CLR			
HKS	18/0053	1024.9	30.27	33	6	32	140	5		10.0	CLR			

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg	ktGkt		mile		in	in	
HKS	19/2353	1028.9	30.39	33	19	56	340	7		10.0	CLR			
HKS	19/2253	1027.9	30.36	37	19	48	340	10G19		10.0	CLR			
HKS	19/2153	1027.2	30.34	40	19	43	350	10G18		10.0	CLR			
HKS	19/2053	1026.1	30.31	43	23	45	350	11G21		10.0	CLR			
HKS	19/1953	1025.9	30.31	43	24	47	340	7G19		10.0	CLR			
HKS	19/1853	1025.7	30.30	43	23	45	360	10G19		10.0	CLR			
HKS	19/1753	1026.3	30.32	42	24	49	350	9G19		10.0	CLR			
HKS	19/1653	1026.7	30.33	41	26	55	350	9G18		10.0	CLR			
HKS	19/1553	1027.0	30.34	38	27	64	330	8G21		10.0	CLR			
HKS	19/1453	1026.3	30.32	36	28	73	360	10G27		10.0	CLR			
HKS	19/1353	1025.0	30.28	34	31	88	350	8G14		8.0	FEW007			
HKS	19/1253	1023.9	30.25	33	32	96	340	6		7.0	OVC006			
HKS	19/1153	1023.0	30.22	34	31	88	340	4		8.0	BKN006			
HKS	19/1053	1021.9	30.19	35	33	92	320	5		8.0	OVC006			
HKS	19/0953	1020.8	30.16	36	34	92	320	6		9.0	OVC006			
HKS	19/0853	1020.4	30.15	37	35	92	320	9		8.0	OVC004			
HKS	19/0753	1019.7	30.12	38	36	92	330	7		7.0	OVC004			
HKS	19/0653	1019.0	30.10	39	37	93	330	7G16		5.0	OVC004	BR		
HKS	19/0553	1018.1	30.08	42	40	92	320	9		10.0	BKN006		0.01	
HKS	19/0453	1017.7	30.06	46	44	93	330	7		9.0	OVC004			
HKS	19/0353	1016.4	30.03	51	49	92	340	5		9.0	OVC004			
HKS	19/0253	1015.4	30.00	50	49	96	0	0		6.0	BKN017 OVC055	BR	0.01	0.01
HKS	19/0153	1015.1	29.99	52	49	89	310	9		6.0	OVC010	-RA BR	0.00	
HKS	19/0053	1014.3	29.96	52	48	86	170	3		10.0	OVC011			

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg	ktGkt		mile		in	in	
HKS	20/2353	1033.8	30.53	29	11	46	340	6		10.0	CLR			
HKS	20/2253	1033.1	30.51	32	10	39	VRB	5		10.0	CLR			
HKS	20/2153	1033.2	30.51	34	10	36	350	8G15		10.0	CLR			
HKS	20/2053	1033.3	30.52	34	10	36	340	8		10.0	CLR			
HKS	20/1953	1033.4	30.52	34	10	36	360	7		10.0	CLR			
HKS	20/1853	1033.9	30.54	33	10	38	340	11G17		10.0	CLR			
HKS	20/1753	1034.6	30.56	31	10	41	340	6		10.0	CLR			
HKS	20/1653	1035.4	30.58	28	9	44	360	8G16		10.0	CLR			
HKS	20/1153	1032.8	30.51	21	10	62	360	4		10.0	CLR			
HKS	20/1053	1032.2	30.49	22	10	60	360	5		10.0	CLR			
HKS	20/0953	1032.1	30.48	22	10	60	360	5		10.0	CLR			
HKS	20/0853	1031.5	30.47	23	9	54	020	8G16		10.0	CLR			
HKS	20/0753	1031.4	30.47	23	10	57	010	5		10.0	CLR			
HKS	20/0653	1031.1	30.46	24	11	57	010	7		10.0	CLR			
HKS	20/0553	1031.4	30.47	25	13	60	360	10G17		10.0	CLR			
HKS	20/0453	1031.0	30.46	26	15	63		6		10.0	CLR			
HKS	20/0353	1031.2	30.46	27	17	66	340	10G17		10.0	CLR			
HKS	20/0253	1030.8	30.45	28	19	69	340	5		10.0	CLR			
HKS	20/0153	1030.4	30.44	29	19	66	360	6		10.0	CLR			
HKS	20/0053	1029.8	30.42	31	20	63	340	7		10.0	CLR			

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg	ktGkt		mile		in	in	
HKS	21/2353	1030.9	30.45	40	11	30	090	4		10.0	CLR			
HKS	21/2253	1030.6	30.44	43	11	27	050	4		10.0	CLR			
HKS	21/2153	1030.9	30.45	44	11	26		5		10.0	CLR			
HKS	21/2053	1031.4	30.47	44	10	25	060	4		10.0	CLR			
HKS	21/1953	1031.8	30.47	41	9	26				10.0	CLR			
HKS	21/1853	1032.7	30.50	38	11	32	0	0		10.0	CLR			
HKS	21/1753	1033.8	30.53	34	10	36	060	4		10.0	CLR			
HKS	21/1653	1035.0	30.57	31	10	41		5		10.0	CLR			

HKS	21/1553	1035.8	30.59	26	9	48	060	5		10.0	CLR			
HKS	21/1453	1035.6	30.58	23	9	54	080	7		10.0	CLR			
HKS	21/1353	1035.3	30.57	20	8	59	080	10		10.0	CLR			
HKS	21/1253	1035.5	30.58	19	8	62	100	5		10.0	CLR			
HKS	21/1153	1035.1	30.57	20	8	59	060	5		10.0	CLR			
HKS	21/1053	1034.8	30.56	20	9	62	060	7		10.0	CLR			
HKS	21/0953	1035.1	30.57	20	10	65	040	3		10.0	CLR			
HKS	21/0853	1035.0	30.57	21	10	62	030	4		10.0	CLR			
HKS	21/0753	1035.0	30.57	21	11	65	VRB	4		10.0	CLR			
HKS	21/0653	1034.9	30.57	21	11	65	010	4		10.0	CLR			
HKS	21/0553	1035.0	30.57	21	12	68	020	3		10.0	CLR			
HKS	21/0453	1034.8	30.56	22	13	68	010	6		10.0	CLR			
HKS	21/0353	1035.1	30.57	23	13	65				10.0	CLR			
HKS	21/0253	1035.4	30.58	24	13	62	350	5		10.0	CLR			
HKS	21/0153	1035.0	30.57	25	13	60	350	8		10.0	CLR			
HKS	21/0053	1034.4	30.55	27	13	55	340	5		10.0	CLR			

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg	ktGkt		mile			in	in
HKS	22/2353	1024.1	30.26	55	45	69	130	14G20		10.0	OVC022			
HKS	22/2253	1023.9	30.25	57	44	62	120	12G19		10.0	OVC027			
HKS	22/2153	1023.2	30.23	58	44	60	130	12G19		10.0	OVC028			
HKS	22/2053	1023.4	30.24	60	44	55	140	9		10.0	BKN030 OVC095			
HKS	22/1953	1023.5	30.24	61	44	54	130	12		10.0	SCT090			
HKS	22/1853	1024.3	30.36	59	41	51	130	10		10.0	OVC080			
HKS	22/1753	1026.6	30.33	53	35	50	110	7		10.0	BKN075			
HKS	22/1653	1028.2	30.38	47	29	49	120	7		10.0	OVC075			
HKS	22/1553	1028.7	30.39	44	26	49	110	8		10.0	OVC080			
HKS	22/1453	1028.6	30.39	41	22	46	100	10		10.0	BKN070 OVC085			
HKS	22/1353	1028.3	30.37	38	18	44	110	6		10.0	OVC095			
HKS	22/1253	1028.4	30.38	37	14	38	120	7		10.0	OVC075			
HKS	22/1153	1028.6	30.38	36	13	38	110	6		10.0	SCT075			
HKS	22/1053	1028.4	30.38	35	14	42	110	7		10.0	BKN090			
HKS	22/0953	1028.9	30.40	34	13	41	120	9		10.0	SCT085			
HKS	22/0853	1029.0	30.40	34	13	41	120	7		10.0	SCT085			
HKS	22/0753	1028.9	30.39	34	12	40	120	9		10.0	CLR			
HKS	22/0653	1029.6	30.41	34	12	40	130	7		10.0	CLR			
HKS	22/0553	1030.0	30.42	35	11	36	120	6		10.0	CLR			
HKS	22/0453	1030.7	30.45	35	10	35	110	5		10.0	CLR			
HKS	22/0353	1031.1	30.45	36	11	35	090	5		10.0	CLR			
HKS	22/0253	1031.9	30.48	37	10	32	110	3		8.0	CLR			
HKS	22/0153	1031.8	30.47	38	10	31	150	4		7.0	CLR			
HKS	22/0053	1030.9	30.45	37	13	37	100	7		10.0	CLR			

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg	ktGkt		mile			in	in
HKS	23/2353	1017.8	30.07	63	58	84	120	10		10.0	OVC015			
HKS	23/2253	1017.8	30.08	63	58	84	130	8G18		10.0	OVC015			
HKS	23/2153	1017.8	30.08	63	58	84	140	11		10.0	OVC014			
HKS	23/2053	1018.3	30.09	64	58	80	140	14G20		10.0	OVC014			
HKS	23/1953	1019.3	30.12	63	58	84	130	10		10.0	OVC013			
HKS	23/1853	1019.5	30.13	63	58	84	140	14G20		10.0	OVC011			
HKS	23/1753	1021.1	30.17	60	56	86	130	11		10.0	OVC009			0.02
HKS	23/1653	1022.0	30.20	59	56	90	140	11		10.0	OVC009			
HKS	23/1553	1022.2	30.20	57	54	89	130	9G19		10.0	OVC008			
HKS	23/1453	1022.0	30.20	56	53	90	130	11		10.0	OVC009			0.02
HKS	23/1353	1021.7	30.19	54	52	93	130	9		10.0	BKN010 OVC015			
HKS	23/1253	1021.9	30.19	53	51	93	130	7		10.0	BKN027 OVC048		0.02	
HKS	23/1153	1021.6	30.19	52	50	93	120	9		10.0	FEW026 OVC034-RA		0.00	0.20
HKS	23/1053	1021.7	30.19	51	50	96	110	6		2.5	BKN036 OVC055-RA	BR	0.03	
HKS	23/0953	1022.0	30.20	52	50	93	130	10		4.0	BKN080 OVC100-RA	BR	0.06	

HKS	23/0853	1022.2	30.20	51	50	96	130	8		4.0	SCT080	OVC095	RA	BR	0.06	0.11
HKS	23/0753	1022.1	30.20	52	49	89	130	10G18		10.0	OVC110		-RA		0.03	
HKS	23/0653	1022.4	30.21	53	48	83	130	13G21		10.0	OVC100		-RA		0.02	
HKS	23/0553	1022.6	30.19	54	46	74	130	12		10.0	BKN080	OVC110				
HKS	23/0453	1023.1	30.23	53	44	71	120	9G19		10.0	FEW031	BKN120				
HKS	23/0353	1023.7	30.25	53	44	71	130	12		10.0	BKN036	BKN120				
HKS	23/0253	1023.8	30.25	53	44	71	110	11G19		10.0	SCT036	BKN120				
HKS	23/0153	1024.4	30.26	53	45	74	130	14G21		10.0	OVC018					
HKS	23/0053	1024.2	30.26	53	44	71	120	13G22		10.0	OVC021					

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP		
	DD/HHMM	hPa	inHg	F	F	%	deg	ktGkt		mile			in	in		
HKS	24/2353	1016.2	30.03	63	62	97	110	5		10.0	SCT070	BKN090			0.15	
HKS	24/2253	1016.8	30.05	62	62	100	160	4		4.0	BKN080	OVC110	BR		0.01	
HKS	24/2153	1015.9	30.02	63	62	97	100	3		4.0	BKN075	OVC110	-RA		0.00	
HKS	24/2053	1016.3	30.03	62	62	100	120	4		6.0	BKN070		-RA		0.06	0.14
HKS	24/1953	1017.8	30.08	63	62	97	300	6		1.8	OVC003		RA		0.04	
HKS	24/1853	MISSING	DATA													
HKS	24/1753	MISSING	DATA													
HKS	24/1653	MISSING	DATA													
KKS	24/1553	MISSING	DATA													
HKS	24/1453	1017.0	30.05	62	62	100	060	4		4.0	BKN028	OVC075	TSRA		0.26	1.58
Gas explosion location 1 1414Z																
HKS	24/1353	1016.4	30.03	62	62	100	060	6		4.0	SCT060	OVC075	RA		0.30	
HKS	24/1253	1016.5	30.04	63	63	100	110	5G28		2.0	OVC031		+TSRA		1.02	
HKS	24/1153	1013.8	29.96	64	63	96	080	9		10.0	OVC008		-RA		0.13	0.15
HKS	24/1053	1014.9	29.99	64	62	93	130	8		10.0	OVC008		-RA		0.02	
HKS	24/0953	1014.4	29.98	64	62	93	120	12		10.0	OVC007		-RA		0.00	
HKS	24/0853	1015.7	30.01	64	62	93	130	9		8.0	OVC006					
HKS	24/0753	1016.2	30.03	64	62	93	140	12G18		10.0	OVC007					
HKS	24/0653	1016.7	30.05	63	61	93	130	11		10.0	OVC007					
HKS	24/0553	1017.1	30.06	63	61	93	140	10		9.0	OVC007				0.00	0.00
HKS	24/0453	1017.7	30.07	62	60	93	140	12		4.0	OVC009		-RA		0.00	
HKS	24/0353	1017.8	30.07	62	60	93	130	13G20		8.0	OVC009					
HKS	24/0253	1017.6	30.07	63	59	87	130	12		10.0	OVC011				0.00	0.00
HKS	24/0153	1017.4	30.06	63	59	87	130	13		10.0	OVC011		-RA		0.00	
HKS	24/0053	1017.9	30.08	62	59	90	130	10G18		10.0	OVC011					

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP		
	DD/HHMM	hPa	inHg	F	F	%	deg	ktGkt		mile			in	in		
HKS	25/2353	1015.8	30.02	61	60	97	280	5		7.0	SCT007	OVC014			0.00	0.00
HKS	25/2253	1015.4	30.01	62	61	96	270	4		5.0	BKN006	OVC014	-RA		0.00	
HKS	25/2153	1014.7	29.92	63	61	93	0	0		10.0	BKN010	OVC015				
HKS	25/2053	1014.6	29.98	63	61	93	200	4		10.0	OVC009					
HKS	25/1953	1014.7	29.98	62	61	96	240	5		10.0	OVC006					
HKS	25/1853	1015.0	30.00	62	61	96	260	8		10.0	BKN007	OVC012				
HKS	25/1753	1014.4	29.98	61	60	97	260	6		10.0	BKN005	OVC110			0.04	0.31
HKS	25/1653	1013.9	29.96	60	59	96	090	7		7.0	SCT100	OVC110	RA		0.10	
HKS	25/1553	1016.9	30.05	62	60	93	300	14G31		2.5	BKN021	OVC065	RA		0.17	
HKS	25/1453	1015.2	30.00	63	62	97	140	5		8.0	OVC004		-RA		0.00	0.00
HKS	25/1353	1015.2	30.00	62	61	96	120	5		10.0	BKN010	OVC015				
HKS	25/1253	1015.1	30.00	61	60	97	090	3		10.0	BKN005	OVC020			0.00	
HKS	25/1153	1014.7	29.99	60	60	100	0	0		9.0	OVC002				0.00	0.31
HKS	25/1053	1014.4	29.98	60	60	100	070	4		9.0	BKN004	OVC110	-RA		0.05	
HKS	25/0953	1016.2	30.03	61	61	100	0	0		3.0	SCT006	OVC045			0.11	
HKS	25/0853	1016.1	30.03	61	61	100	090	3		10.0	BKN035	OVC046			0.00	0.15
HKS	25/0753	1017.3	30.06	62	61	96	0	0		8.0	BKN024	OVC075	-RA		0.02	
HKS	25/0653	1017.5	30.07	61	60	97	310	5		4.0	BKN032	OVC049	RA		0.13	
HKS	25/0553	1017.6	30.07	60	60	100	0	0		1.2	BKN002	OVC019	RA		0.04	0.22
HKS	25/0453	1016.8	30.05	61	60	97	320	3		9.0	FEW003	BKN090			0.00	

HKS	25/0353	1016.4	30.03	62	62	100	040	5	6.0	OVC100		-RA	0.11
HKS	25/0253	1018.9	30.11	63	62	97	310	6	6.0	OVC100		RA	0.07 0.07
HKS	25/0153	1018.3	30.09	62	62	100	280	4	10.0	FEW004	OVC080		0.00
HKS	25/0053	1016.2	30.03	63	63	100	0	0	9.0	OVC003			0.00

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg	kt	Gkt	mile			in	in
HKS	26/2353	1017.3	30.06	62	60	93	080	5		5.0	OVC008	BR		
HKS	26/2253	1018.1	30.08	63	60	90	050	6		10.0	OVC009			
HKS	26/2153	1018.0	30.08	64	60	87	060	5		10.0	OVC010			
HKS	26/2053	MISSING												
HKS	26/1953	1017.6	30.07	63	59	87	070	4		10.0	OVC009			
HKS	26/1853	1018.5	30.09	63	59	87	040	5		10.0	OVC008			
HKS	26/1753	1019.6	30.13	62	58	86	080	6		10.0	OVC009			
HKS	26/1653	1020.0	30.14	60	58	93	080	7		10.0	SCT017	OVC021		
HKS	26/1453	1020.1	30.14	56	55	97	0	0		5.0	OVC002	BR		
HKS	26/1353	1019.6	30.13	52	51	97	0	0		0.5	X002	FG		
HKS	26/1253	1018.7	30.10	52	51	97	330	3		0.5	CLR	FG		
HKS	26/1053	1018.0	30.08	55	55	100	0	0		4.0	OVC023	BR		
HKS	26/0953	1017.9	30.08	55	55	100	0	0		1.2	BKN004	OVC021	BR	
HKS	26/0853	1018.2	30.08	54	53	97	0	0		0.5	X005	FG		
HKS	26/0753	1018.1	30.08	54	54	100	0	0		0.2	X003	FG		
HKS	26/0653	1018.1	30.08	54	53	97	0	0		0.2	X002	FG		
HKS	26/0453	1018.0	30.09	55	55	100	0	0		0.2	X001	FG		
HKS	26/0353	1018.1	30.08	56	56	100	0	0		0.2	X001	FG		
HKS	26/0253	1018.0	30.08	58	58	100	0	0		4.0	FEW005	FG		
HKS	26/0153	1017.7	30.08	59	59	100	300	3		8.0	BKN007	OVC013		
HKS	26/0053	1017.1	30.06	60	59	96	260	3		10.0	BKN008	OVC014		

STN	TIME	PMSL	ALTM	TMP	DEW	RH	DIR	SPD	GUS	VIS	CLOUDS	Wx	P01	PCP
	DD/HHMM	hPa	inHg	F	F	%	deg	kt	Gkt	mile			in	in
HKS	27/2353	1018.2	30.08	50	48	93	300	7		10.0	OVC013		0.00	0.00
HKS	27/2253	1017.2	30.06	50	48	93	300	9		7.0	OVC013		0.00	
HKS	27/2153	1016.3	30.03	51	49	92	290	14G20		7.0	BKN008	OVC028	0.00	
HKS	27/2053	1015.2	30.00	53	51	93	300	8		4.0	BKN012	OVC026	-RA	0.00 0.00
HKS	27/1953	1014.3	29.97	55	51	86	280	11G17		10.0	BKN020	OVC029		0.00
HKS	27/1853	1014.2	29.97	55	51	86	290	12		10.0	OVC013	-RA	0.00	
HKS	27/1753	1014.4	29.97	54	52	93	280	16G26		6.0	OVC011	-RA	0.00	0.02
HKS	27/1653	1014.0	29.96	57	54	89	290	16G27		10.0	OVC009		0.00	
HKS	27/1553	1013.6	29.95	60	59	96	270	12G26		6.0	BKN008	OVC030	-RA	0.02
HKS	27/1453	1012.4	29.92	64	62	93	190	11		6.0	BKN011	OVC017	-RA	0.00 0.00
HKS	27/1353	1012.3	29.92	63	61	93	170	12		10.0	OVC010		0.00	
HKS	27/1253	1012.2	29.91	63	61	93	180	12G18		6.0	OVC013	-RA	0.00	
HKS	27/1153	1011.5	29.89	63	61	93	170	10		10.0	FEW009	BKN015	0.00	1.05
HKS	27/1053	1012.6	29.92	63	61	93	140	9		6.0	BKN018	OVC025	-RA	0.36
Gas explosion 1034Z location 2														
HKS	27/0953	1013.1	29.94	62	62	100	060	4		2.5	BKN008	OVC015	+RA	0.33
HKS	27/0853	1013.9	29.96	63	61	93	0	3		4.0	OVC010	+RA	0.09	0.36
HKS	27/0753	1013.9	29.96	63	62	97	130	11G28		10.0	OVC007	-RA	0.07	
HKS	27/0653	1014.5	29.98	62	61	96	110	12		5.0	BKN005	OVC075	RA	0.20
HKS	27/0353	1016.8	30.04	61	61	100	070	5		4.0	OVC004	-RA	0.03	
HKS	27/0253	1017.6	30.07	62	61	96	110	3		10.0	OVC006	-RA	0.01	0.01
HKS	27/0153	1017.5	30.06	62	61	96	070	6		3.0	OVC005	-RA	0.00	
HKS	27/0053	1017.2	30.07	62	61	96	070	6		5.0	OVC005	BR	0.00	

F. ATTACHMENTS

Hawkins Field Airport does not record climatological information into the NCEI Information database. The closest official station was for Jackson International Airport, Jackson, MS, which was located about 8.5 miles east of the accident sites. The daily climatology data for January 2024 is included as attachment 1.

Attachment 1 - Jackson International Airport, Jackson, MS, Local Climatological Data for the month of January 2024.

Submitted by:

Donald Eick
NTSB Senior Meteorologist