



Adam M. Gerhardt
Senior Aviation Accident Investigator
Office of Aviation Safety, Eastern Region

Date: October 10, 2023

Subject: ERA23FA048
METEOROLOGICAL INFORMATION

Summary: The following memorandum details airport information and routine hourly weather observations at the accident airport, Tucker-Guthrie Memorial Airport (I35) Harlan, Kentucky, and surrounding airports on the day of the accident.

I35 METARS November 3, 2022 (Accident Day)

METAR KI35 031535Z AUTO 00000KT 10SM CLR 12/12 A3035 RMK AO2
T01180116=

METAR KI35 031515Z AUTO 00000KT 10SM SCT002 10/10 A3035 RMK AO2
T01030103=

METAR KI35 031455Z AUTO 00000KT 1/2SM OVC002 09/09 A3035 RMK AO2
T00930093=

METAR KI35 031435Z AUTO 00000KT M1/4SM OVC002 09/09 A3036 RMK AO2
T00860086=

**METAR KI35 031415Z AUTO 00000KT M1/4SM OVC002 08/08 A3037
RMK AO2 T00820082=**

Accident Time: 1409UTC

METAR KI35 031355Z AUTO 00000KT M1/4SM OVC002 08/08 A3036 RMK AO2
T00810081=

METAR KI35 031335Z AUTO 00000KT M1/4SM OVC002 08/08 A3036 RMK AO2
T00800080=

Departure Time: 1332UTC

METAR KI35 031315Z AUTO 00000KT M1/4SM OVC002 08/08 A3035 RMK AO2
T00770077=

METAR KI35 031255Z AUTO 00000KT M1/4SM OVC002 08/08 A3034 RMK AO2
T00760076=

METAR KI35 031235Z AUTO 00000KT M1/4SM OVC002 08/08 A3033 RMK AO2
T00750075=

METAR KI35 031215Z AUTO 00000KT M1/4SM OVC002 08/08 A3033 RMK AO2
T00750075=

Surveillance Footage at I35

Surveillance video screenshots were provided by the I35 airport at the time of the accident, as viewed in Figure 1. The security camera system did not record audio. The camera was located on the northeast corner of the terminal building facing the landing runway. As measured by Google Earth, the visibility was limited to about .03 nautical mile (175 ft) due to fog and low clouds. An additional image was provided as viewed in Figure 2, displaying improved visibility about an hour and a half after the accident.



Figure 1: Surveillance video screenshot at the time of the accident, as viewed from the airport terminal.



Figure 2: Surveillance video screenshot taken at 1130 the day of the accident, showing that the fog had burnt off and visibility had improved, as viewed from the airport terminal.

Knoxville Downtown Island Airport (DKX), Knoxville, Tennessee METARs (Departure Airport) November 3, 2022

METAR KDKX 031355Z AUTO 00000KT 10SM 14/12 A3034 RMK A01=

METAR KDKX 031335Z AUTO 00000KT 10SM 13/12 A3034 RMK A01=

Departure Time: 1332UTC

METAR KDKX 031315Z AUTO 00000KT 6SM BR 12/12 A3034 RMK A01=

METAR KDKX 031255Z AUTO 00000KT 4SM BR 11/11 A3033 RMK A01=

METAR KDKX 031235Z AUTO 00000KT 3/4SM BR 11/10 A3032 RMK A01 VIS 1/4V2=

Middlesboro/Bell County Airport (1A6), Middlesboro, Kentucky METARs
November 3, 2022:

Airport along route of flight, 23 nautical miles southwest from I35.

METAR K1A6 031435Z AUTO 00000KT 1 1/4SM BR OVC002 09/09 A3036 RMK
AO2 VIS 1/2V4 T00880088=

METAR K1A6 031415Z AUTO 00000KT 3/4SM BR OVC002 08/08 A3036 RMK
AO2 T00840084=

Accident Time: 1409UTC

METAR K1A6 031355Z AUTO 00000KT 1/4SM FG OVC002 08/08 A3037 RMK
AO2 T00810081=

METAR K1A6 031335Z AUTO 00000KT 1/4SM FG OVC002 08/08 A3037 RMK
AO2 T00800080=

#END#