

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division

Washington, D.C. 20594

November 9, 2021

Voyage Data Recorder (VDR)

Specialist's Factual Report

By Nick Swann

1. EVENT SUMMARY

Location: Jacksonville, Florida
Date: June 4, 2020
Vessel Name: Hoegh Xiamen
IMO: 9431848
NTSB Number: DCA20FM020

2. GROUP

A data group was not convened.

3. DETAILS OF INVESTIGATION

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received data electronically from the following VDR:

Recorder Manufacturer/Model: **JCY-1800**
Recorder Serial Number: **N/A**
Vessel: **Hoegh Xiamen, IMO: 9431848**

3.1. VDR Carriage Requirements

The event vessel, IMO 9431848, was built in 2010 and was operating such that it was required to be equipped with a VDR as cited under Regulation 20 of *Safety of Life at Sea* (SOLAS) Chapter V.

3.2. JCY-1800 VDR Description

The JCY-1800 is a VDR system capable of recording navigation, propulsion, control surface, alarm, and automatic identification system (AIS) data. Additionally, bridge audio and communications audio channels are recorded by the system. A minimum of 12 hours of data are recorded by the system.

3.3. Data Recovery

The data was provided to the NTSB Vehicle Recorder Division as a series of file structures. The files were then converted into the National Marine Electronics Association (NMEA) 0183 format using the provided software from the manufacturer of the VDR. From there, lab software was used to convert the data into engineering units.

3.4. Time Correlation

The extracted data were recorded in universal coordinated time (UTC) and are displayed in UTC for this report.

3.5. Data Description

Data from the VDR were extracted and converted from NMEA into tabular form. Data converted are from June 4, 2020, from approximately 19:45 to 20:30 UTC. The ship was at berth at the time of the accident. The data extracted and determined to be of interest are the data related to the fire alarm system located onboard. The data used to create the following plot are attached in electronic (*.csv) form to this report.

3.6. Overlays and Tabular Data

Figure 1 shows a plot of the count of the alarms on each deck as a function of time.

Attachment 1 to this report is a table of all alarm notifications recorded by the VDR in the time examined.

Hoegh Xiamen Car Deck Fire Alarms

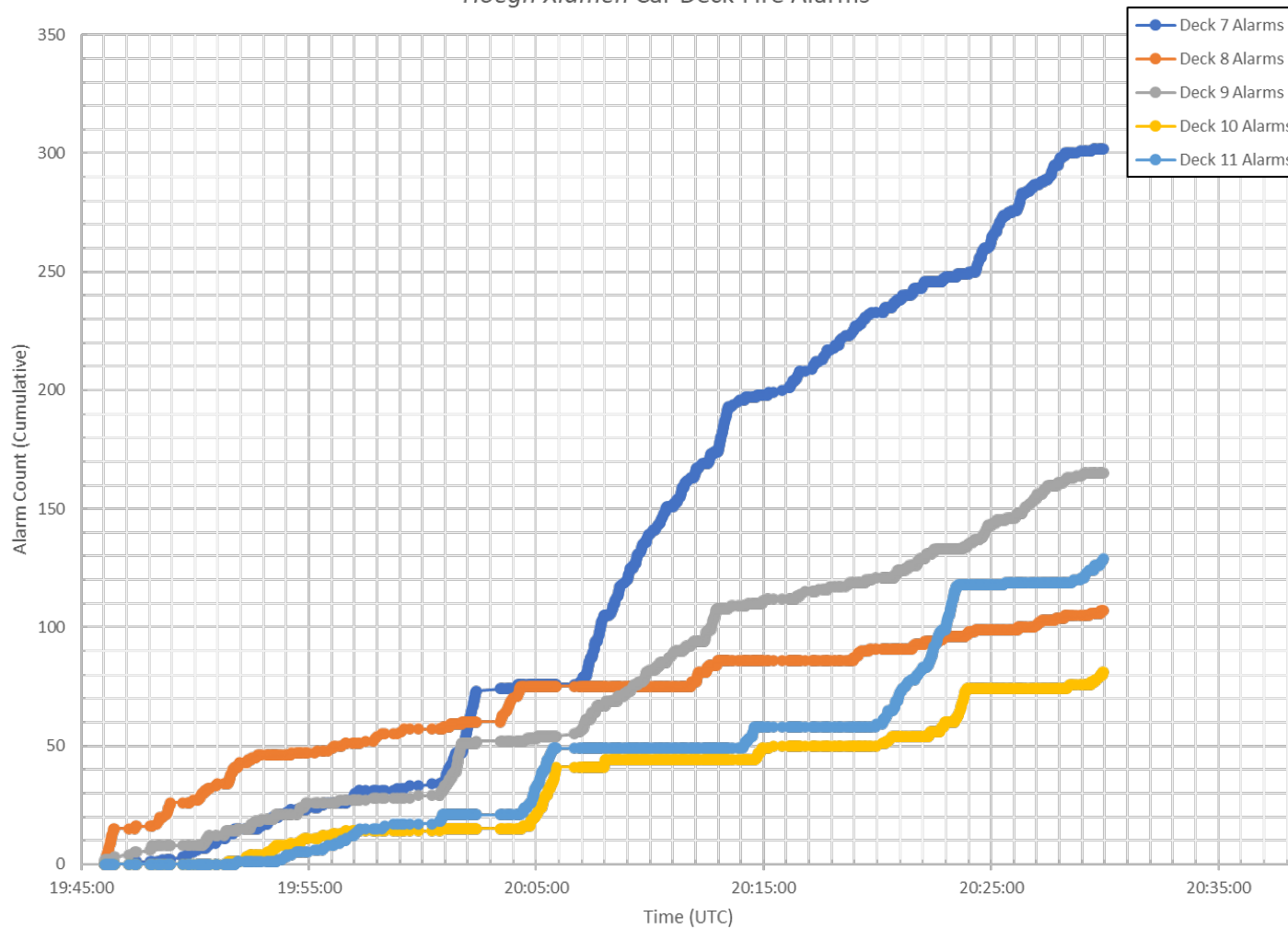


Figure 1. Overview of Fire Alarm Data from the Accident.