

#### 573.6 (c) (6) - Chronology of Events (Recall H441)

On February 02, 2022, an investigation was initiated in the Product Safety and Compliance Committee (PSCC) following reports of vehicle fire through JLRs critical concerns reporting process.

An Engineering team was assigned responsibility for the investigation and were tasked with analyzing available data from vehicles where fire had been reported and feedback their findings to the PSCC.

Between February and May, 2022, some EV batteries from vehicles that had experienced thermal overload (both fire and smoke exhibited) were obtained, inspected in JLR facilities, and returned to the battery supplier for further and more detailed analysis. In conjunction with the battery supplier, the Engineering team Diagnostic Over The Air (DOTA) data was acquired. The supplier and engineering teams started analysis of this data from all vehicles for which DOTA data is available.

In June, 2022, the PSCC received an update on the status of the investigation along with next steps. This included research of un-failed batteries where DOTA data identified them to be of interest. During June and July, 2022, 6 un-failed batteries were made available to the battery supplier for testing and evaluation to determine their condition in comparison to that indicated by the DOTA data.

In August, 2022, feedback from the supplier's detailed analysis was provided to the PSCC which showed alignment between DOTA data and physical battery condition.

During Quarter 3, 2022, field inspections of fire damaged vehicles were completed on 3 vehicles in the United States, the battery packs of these 3 vehicles were returned to the battery suppliers US facility for detailed analysis.

From September, 2022, to date, the findings of this detailed analysis have not yet been concluded.

During Quarter 4, 2022, detailed investigations into DOTA data including independent engineering company engagement revealed that the data could possibly be used to identify at risk battery packs. The progress of this use of data was reviewed through January and February, 2023.

On February 28, 2023, the Engineering team presented the progress of the investigation to the PSCC. They confirmed that DOTA data can be used to identify at-risk battery packs and that the data has identified a small number of vehicles where there is an elevated risk. The PSCC agreed the issue would be progressed to the Recall Determination Committee (RDC) for consideration.

The RDC reviewed the investigation on March 2, 2023, and concluded that 25 traction batteries found to have elevated risk of failure should be subject to a safety recall to remove the potential defect. The RDC also requested that these battery packs would be used to aid determination of the scope of any further actions. On March 9, 2023, Jaguar Land Rover submitted a foreign recall notice under 49 CFR 579.11 to NHTSA for the 25 vehicles due to the potential degraded EV battery condition.

The investigation continued through March and April, 2023, seeking to define and scope of an at risk population. During this period, further field reports were received of vehicle the thermal overload condition, both smoke and fires. The engineering team reported findings from investigations of these further vehicles, including analysis of the DOTA data from these vehicles.

On May 16, 2023, the PSCC reviewed all analysis of vehicle thermal overload conditions and the engineering investigation to date and agreed the issue would be progressed to the RDC for consideration.

On May 18, 2023: Although the Engineering team had not made a determination of whether the HV battery pack assembly is defective and a cause of reported thermal overload conditions, the PSCC raised the issue to take a pre-emptive field action to reduce a possible risk. Out of an abundance of caution, the RDC decided to conduct a voluntary safety recall on all affected vehicles. The RDC agreed that absent of any determined end point, the scope of this issue is all I-PACE vehicles manufactured to date.

There have been no reported accidents or injuries as a result of this concern. JLR is aware of a number of reports of vehicle thermal overload condition.

JLR has received 8 reports of vehicle fires in the US, reports were received on the following dates;

June 20, 2019

July 6, 2020

August 31, 2021

August 31, 2021

November 11, 2021

December 20, 2021

June 22, 2022

May 3, 2023