

## 22C14

### **Chronology of Defect / Noncompliance Determination**

**Provide the chronology of events leading up to the defect decision or test data for the noncompliance decision.**

#### March – June 2022

On **March 17, 2022**, an issue pertaining to of Headlamp Control Module (HCM) malfunction on Lincoln Navigator was brought to Ford's Critical Concern Review Group by the HCM engineering team for review. In these vehicles, the (HCM) controls the LED-based headlamps and provides feature functionality. The engineering team reviewed reports of unexpected HCM function on pre-production units in another country with CCRG.

CCRG then investigated the potential effect(s) on pre-production vehicles, and whether any of the affected lighting functions could relate to regulatory performance requirements for vehicles in the field. Ford Engineering's review of the suspect pre-production vehicles found that the HCM malfunction could result in the suppression of side marker lamps, daytime running lamps (DRL), and other non-regulated advanced lighting features. One of three specific diagnostic trouble codes (DTCs) are associated with this HCM malfunction. When these DTCs were triggered, there was no loss of low beam, manual high beam, turn signal, hazard, or position functionality for this concern. In addition, the instrument cluster displayed the message "Advanced front lighting features temporarily unavailable. See manual." when one or more of the three DTCs were present.

Further CCRG investigation was conducted to understand whether the condition might exist on vehicles already shipped. These efforts included review of available connected vehicle data, warranty data, and review of vehicles at dealers. One dealer reported that an unsold vehicle in their possession exhibited the relevant DTCs and that it was exhibiting non-functional side marker and DRL features. Between 31-March-2022 and 14-June-2022 CCRG has identified 21 warranty claims relating to this concern, with 3 reports at or prior to the warranty start date.

On **June 17, 2022**, Ford's Field Review Committee reviewed the concern, determined that a potential noncompliance existed, and approved a field action.

Ford is not aware of any reports of accident or injury related to this condition.

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