

**2022-2024MY EV6
ICCU Assembly
Basis of Safety Defect Determination 573.6(c)(6)**

May 10, 2023	Kia North America (Kia NA) Safety Office provides information relating to Integrated Charging Control Unit (ICCU) and associated limp home mode condition involving 2022-2023MY EV6 vehicles during meeting with National Highway Traffic Safety Administration’s (NHTSA) Office of Defect Investigation (ODI).
May 29, 2023	Kia NA Safety Office informs ODI of its plan to conduct a voluntary service campaign for certain 2022-2023MY EV6 vehicles regarding the ICCU.
May 30, 2023	Kia NA Safety Office decides to conduct a voluntary service campaign (SC271) to address an over current condition in the high voltage system that can result in multiple warnings and gradual reductions in power. Three (3) cases report loss of motive power with warnings; no cases report loss of motive power without warnings. No injuries, crashes, fatalities or fires.
July 3, 2023	ODI opens PE23-012 to investigate “consumer report experiencing a reduced or complete loss of motive power during vehicle operation increasing the risk of a crash” involving 2022MY EV6 vehicles.
July 11, 2023—July 13, 2023	Kia NA issues SC271 dealer and owner notifications.
August 18, 2023—October 23, 2023	Kia NA submits responses to PE23-012 information requests and concludes no unreasonable risk to motor vehicle safety exists due to 1) progressive and lengthy audible and visual warnings and messages, including instructing customer to stop the vehicle; 2) the ability to continue to drive vehicle with progressive reductions in power; and 3) low incident rate with no reported fires, accidents or injuries.
February 5, 2024—February 14, 2024	Kia Corporation (Kia HQ) informs Kia NA Safety Office of elevated claims following SC271 software upgrade in other global markets. Kia NA Safety Office preliminary data analysis identifies a total of 25 unique reports of loss of motive power after receiving software update under SC271 and shares results with Kia HQ.
February 19, 2024	Kia HQ provides Kia NA Safety Office with investigation results showing the ICCUs collected from global markets show signs of

	damage after thermal cycling and exposure to transient voltage peaks.
March 1, 2024	Kia NA Safety Office escalates issue to SEL.
March 7, 2024	<p>Kia HQ informs Kia NA Safety Office of newly developed software which was incorporated into production on 2/27/2024.</p> <p>Kia NA Safety Office updates data analysis and identifies a total of 34 unique reports of loss of motive power after receiving software update. [33 warranty claims; 2 techline cases and 2 customer complaints (dates of receipt 9/20/2023—2/29/2024)]. No injuries, crashes, fatalities or fires.</p>
March 8, 2024	Kia NA decides to recall all 2022-2023MY EV6 vehicles and certain 2024MY EV6 vehicles. No injuries, crashes, fatalities or fires.