

**2006-2010MY Sedona & 2007-2009MY Sorento HECU Chronology
Basis of Safety Defect Determination 573.6(c)(6)**

April 2017-May 2017	Kia Motors America, Inc. (KMA) receives engine compartment fire complaint for 2009 Kia Sorento on April 6, 2017. KMA inspects vehicle on May 18, 2017 and identifies origin of fire near engine room fuse/relay box; cause could not be determined.
July 2018-August 2018	KMA receives complaints of two (2) engine compartment fires involving a 2008 and 2009 Sorento. During this time, KMA conducts broad search of salvage yard vehicles for further investigation. KMA and Kia Motors Corporation (KMC) jointly inspect the available Sorento vehicles. Inspections reveal origin of fire is near area of Hydraulic Electronic Control Unit (HECU) and engine room fuse/relay box. Cause of fire could not be confirmed. Further analysis needed. KMA begins process of recovering parts from inspected vehicles for further evaluation.
September-November 2018	KMA continues to monitor field incidents; no related fire incidents identified. On November 26, 2018, KMA provides part recovered from prior salvage yard inspection to KMC for further analysis.
December 2018	KMC and supplier conduct visual and x-ray evaluation of HECU part received from KMA in November 2018 from salvage yard vehicle. HECU connector B+ area severely damaged from fire. Minor corrosion found on one of the ESC connector wires. Corrosion possibly due to moisture intrusion, but manner of intrusion could not be determined.
January 2019	KMA recovers HECU parts from two (2) Sorento vehicles previously inspected in August 2018 and ships them to KMC for further evaluation. KMC and supplier analyze parts; corrosion of ESC wiring found on one examined part possibly due to moisture intrusion. Examination of second part revealed thermal damage to HECU cover; fire origin suspected to be in relay box area, but cause could not be determined.
February 2019	KMA notified of a fire incident involving a 2008 Sedona on February 12, 2019. KMA inspects vehicle and finds burn damage of HECU connector but cause could not be determined. KMA begins process to repurchase vehicle for further evaluation. KMA continues to monitor.
May 2019-June 2019	KMA notified of fire incident involving a 2007 Sedona on May 7, 2019. KMA inspects vehicle on June 27, 2019. Origin of fire in area of HECU but cause could not be determined. KMA works to collect parts for further examination by KMC.
July 2019-November 2019	KMA continues to monitor incidents and receives 2009 Sorento engine compartment fire claim on August 6, 2019. KMA subsequently inspects vehicle on October 9, 2019 and identifies fire originated in left rear of engine compartment, likely in area near

	HECU. However, cause could not be determined.
December 2019-January 2020	KMC engineers and KMA engineers conduct joint inspection at KMA headquarters on December 9, 2019 of two (2) previously repurchased incident vehicles and three (3) HECU parts which had been collected by KMA. Inspection confirms visible thermal damage to HECUs. Further X-ray analysis of HECU conducted by supplier in January showed evidence of a short circuit, possibly related to intrusion of moisture. Source of possible moisture intrusion could not be determined. No identifiable trend relating to a design or manufacturing defect could be found.
February 10, 2020	As a precautionary measure, KMC decides to conduct a recall of certain Kia Sedona and Sorento vehicles to prevent key OFF engine compartment fires by depowering the HECU when the vehicle is in the ignition key OFF condition. Two (2) Sedona and five (5) Sorento fire related customer complaints. No known injuries related to this condition.