NISSAN GROUP
OF NORTH AMERICA

Nissan North America, Inc.
One Nissan Way
Franklin, TN 37067

Mailing Address:
PO Box 685001
Franklin, TN 37068

November 24, 2021

Mr. Jeff Giuseppe
Associate Administrator for Enforcement
National Highway Traffic Safety Administration
Attn: Recall Management Division (NVS-215)
Room W48-302
1200 New Jersey Avenue, SE
Washington, D.C. 20590

Dear Mr. Giuseppe:

We are transmitting the enclosed supplement to the Defect Information Report filed on October 26, 2021. This supplement updates section(s) 2 and 7: Vehicles Potentially Involved and Description of Corrective Action, respectively.

Very truly,

Derek Latta
Manager,
Technical Compliance

Encl.

DEFECT INFORMATION REPORT

1. Manufacturer:

Nissan North America Inc., Canton plant
Nissan North America Inc., Smyrna plant

2. Vehicles Potentially Involved:

Production period of affected vehicles involved:

Model	Dates of Manufacture
MY 2015-2016 Nissan Murano Hybrid	August 22, 2014 (SOP) to July 19, 2016 (EOP)
MY 2014-2015 Nissan Pathfinder Hybrid	July 18, 2013 (SOP) to June 21, 2014 (EOP)
MY 2014-2017 INFINITI QX60 Hybrid	July 18, 2013 (SOP) to August 4, 2017 (EOP)

This issue only affects models equipped with the hybrid powertrain produced at the Canton and Smyrna plants. The defect (described in Section 5 below) is unique to these models and dates of manufacture; no other Nissan or INFINITI vehicles are affected.

The name, description and part number of the subject component is below:

Part Name	Part Description	Part Number(s)
Hybrid Power Control Unit Module	HPCM Module	237A1 3JV9B 237A1 3JV9C
HPCM Software Program Version	HPCM Software	Ver. Ph5.421 Ver. Ph5.801 Ver. Ph5.831 Ver. Ph5.841

The software supplier for the subject vehicles:

Hitachi Astemo, Ltd.
8th Floor, Minatomirai Grand Central Tower 4-6-2 Minato Mirai
Nishi-ku, Yokohama-shi, Kanagawa, 220-0012 Japan

Mr. Keishiro Kihira, Product Sales Group
+81 70-3985-0801
Keishiro.kihira.sk@hitachiastemo.com

3. Total Number of Vehicles Potentially Involved:

Approximately 7,634 vehicles are potentially affected:

Make/Model	**Number of Vehicles**
MY 2015-2016 Nissan Murano Hybrid	614
MY 2014-2015 Nissan Pathfinder Hybrid	2,845
MY 2014-2017 INFINITI QX60 Hybrid	4,175

4. Percentage of Vehicles Estimated to Actually Contain the Defect:

0.42%

1% is used here because submission within NHTSA's safety portal will not allow a value under 1%.

5. Description of the Defect:

The Hybrid Powertrain Control Module (HPCM) on certain Nissan Murano Hybrid, Pathfinder Hybrid and INFINITI QX60 Hybrid vehicles may contain software that can cause an engine stall under certain conditions. In the event of bearing damage, the HPCM detects the overheat condition and initiates failsafe mode, which cuts drive power to both the engine and electric motor. Without drivetrain power, the customer may experience an engine stall while driving, increasing the risk of a crash.

6. Chronology of Principal Events:

March 2021 – Nissan became aware of reports of engine stall and power shutdown in the China market involving the subject vehicles.

April 2021 through July 2021 - Nissan focused its investigation on the motor and continuously variable transmission operation, in addition to the failsafe mode activation of the hybrid powertrain control module (HPCM). As part of the investigation, Nissan initiated a parts collection activity in China.

The analysis revealed that the HPCM failsafe mode might potentially disable drive power to the engine and electric motor in the event of bearing damage.

August 2021 to September 2021 – Nissan performed a safety assessment of the failsafe mode to evaluate the potential conditions that could result from a power shutdown of the

hybrid powertrain. If both the engine and electric motor are disabled, a stall condition may occur. This failsafe mode condition also reduces power steering assist and braking assist.

In addition, Nissan conducted a warranty review to determine any incidents in markets outside of China. Nissan identified thirty-five (35) claims related to the subject condition in the U.S. market.

September 27, 2021 – Based on the foregoing, Nissan decided to conduct a safety recall campaign to remedy potentially affected vehicles.

7. Description of Corrective Action:

Nissan will notify all owners of potentially affected vehicles beginning December 3, 2021. Dealers were notified October 5, 2021. Dealers will reprogram the HPCM with updated software to enable EV only operation in the event of failsafe mode activation.

Nissan will not include a statement in the Part 577 owner notification concerning reimbursement for the cost of obtaining a pre-notification remedy since the repair is a reprogram.

8. Copy of Notices:

Copies of all notices will be provided to NHTSA as they become available.