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*By Recall Management Division at 10:16 am, May 29, 2014*

May 28, 2014

Ms. Nancy Lewis  
Associate Administrator for Enforcement  
National Highway Traffic Safety Administration  
Recall Management Division (NVS-215)  
1200 New Jersey Avenue, SE – Room W45-306  
Washington, DC 20590

Re: NHTSA Notification Campaign No. 14V-253

Dear Ms. Lewis:

This letter supersedes General Motors' letter of May 14, 2014, and is submitted pursuant to the requirements of 49 CFR 573.6 as it applies to a determination by General Motors of a safety defect for 2014 model year Cadillac CTS vehicles. Specifically, the information submitted pursuant to 49 CFR 573.6(c)(6) below supersedes information included in General Motors' letter of May 14, 2014.

573.6(c)(1): Cadillac Brand of General Motors Company.

573.6(c)(2)(3)(4): This information is shown on the attached sheet.

573.6(c)(5): General Motors has decided that a defect which relates to motor vehicle safety exists in 2014 model year Cadillac CTS vehicles. The wiper system in these vehicles may become inoperative after a vehicle jump start with wipers on and restricted (e.g. ice and snow) during jump condition. If the battery loses charge, then it is possible that an unstable voltage in the vehicle can reproduce this condition without an external jump start. With inoperative wipers, the driver would no longer be able to clear rain or snow from the windshield, and depending on weather conditions, visibility could be reduced potentially increasing the risk of a crash.

573.6(c)(6): As permitted by the provisions of 49 C.F.R. 573.6(b), and pursuant to the requirements of 49 C.F.R. 573.6(c)(6), General Motors now submits the chronology of principal events that were the basis for the determination that the defect related to motor vehicle safety.

On January 17, 2014, GM received a warranty claim and wiper module for a low mileage Cadillac CTS vehicle with a complaint of inoperative front wiper systems. The wiper module associated with the warranty claim was sent to the supplier, BOSCH's electrical technical center in Germany for root cause analysis. On January 31, 2013, Bosch completed the initial root cause investigation and it was determined that the MOSFET (metal-oxide-semiconductor field-effect transistor) Trench 4 was damaged. GM and Bosch began investigating the potential cause of the damage to the MOSFET.

From January 31 through April 14, 2014, GM engineering and Bosch engineering investigated potential sources of MOSFET damage from the supplier manufacturing through the vehicle assembly processes.

On March 7, 2014, while GM and Bosch were investigating the potential source of part damage, a failed part was identified by GM's Third Party transportation manager at the assembly plant. The part was identified after conducting a vehicle jumpstart and the wipers were inoperative. The wiper module received was added to the GM and Bosch investigation and as of April 3, 2014, a total of 9 warranty parts were received.

In parallel with the MOSFET Trench 4 investigation for the source of damage, on February 26, 2014, Bosch changed the production parts and began using MOSFET Trench 3 instead of Trench 4. A "Trench" is a design style of a MOSFET and Bosch made the change to communize the MOSFET parts used by Bosch on GM wiper modules.

On April 15, 2014, GM was able to reproduce electrical overstress inputs that could create a damaged MOSFET failure in a vehicle with restricted wipers during a jumpstart. GM tested the new MOSFET Trench 3 for electrical overstress and they did not exhibit the same failure.

On April 28, 2014, Bosch Germany duplicated the MOSFET 4 electrical overstress condition on a bench without a vehicle jumpstart.

The issue was presented to the Field Performance Evaluation Review Committee on May 05, 2014, and on May 07, 2014, the Executive Field Action Decision Committee decided to conduct a safety recall.

573.6(c)(8): Dealers are to replace the front wiper module.

General Motors will provide the dealer bulletin and owner letter mailing dates when available.

Pursuant to 577.11, General Motors does not plan to provide notice about reimbursement to owners because all involved vehicles are covered under the new vehicle warranty.

573.6(c)(10): General Motors will provide the dealer bulletin and owner letter under separate cover.

573.6(c)(11): General Motors' assigned recall number is 14157.

Sincerely,



Brian Latouf, Director  
Field Product Investigations & Evaluations

Attachment

573.6(c)(2)(3)(4)

VEHICLES POTENTIALLY AFFECTED BY MAKE, MODEL, AND MODEL YEAR  
PLUS INCLUSIVE DATES OF MANUFACTURE

<u>MAKE</u>	<u>MODEL SERIES</u>	<u>MODEL YEAR</u>	<u>NUMBER INVOLVED</u>	<u>INCLUSIVE MANUFACTURING DATES (FROM) (TO)</u>		<u>DESCRIPTIVE INFO. TO PROPERLY IDENT. VEH.</u>	<u>EST. NO. W/CONDITION</u>
Cadillac	A	2014	19,225	06/10/2013	02/26/2014	CTS	*
	GM Total:		19,225				

\* All involved vehicles will be corrected as necessary.

573.6(c)(2)(iv): Bosch  
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Bosch Electrical Drives Division  
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The parts are manufactured in Mexico.