



GENERAL MOTORS LLC
Vehicle Safety and Crashworthiness

1204 MAY -6 P 4:03

OFFICE OF DEPT
INVESTIGATION
2014 MAY -6 P 4:0

GM Reply Date: May 5, 2014

N140165 Partial

Book 1 of 1

NHTSA # PE14-010

NHTSA Requesting Engineer #1

Non-Confidential

General Motors' (GM) partial response to your Preliminary Evaluation (PE14-010) dated April 17, 2014, to investigate allegations of inappropriate autonomous braking while driving a model year (MY) 2014 Chevrolet Impala manufactured by General Motors Corporation and to request certain information. This Preliminary Evaluation also requests information on 2013 Cadillac ATS as peer vehicles.

In a telephone conversation with you on April 24, 2014, General Motors agreed to provide the response to request #1 by May 5, 2014. The due date for the remainder of the response is June 6, 2014.

- **Subject vehicles:** All MY 2014 Chevrolet Impala vehicles manufactured for sale or lease in the United States and federalized territories.
- **Peer vehicles:** All MY 2013 Cadillac ATS manufactured for sale or lease in the United States and federalized territories.
- **Subject system:** Driver assistance systems and all associated sensors, control modules, software, actuators, wiring and other components manufactured for use as original equipment or service replacement parts in the subject and peer vehicles.

Tab (1).....NHTSA Letter

Tab (2).....GM Response Letter to NHTSA

Tab (3).....Attachment 1 Material (1) Disk



GENERAL MOTORS LLC
Global Vehicle Safety

May 5, 2014

Jeffrey L. Quandt, Chief
Vehicle Control Division
Office of Defects Investigation
National Highway Traffic Safety Administration
1200 New Jersey Ave, SE, Room W48-312
Washington, DC 20590

N140165

NVS -213krh
PE14-010

Dear Mr. Quandt:

This letter is General Motors' (GM) partial response to your Preliminary Evaluation (PE14-010) dated April 17, 2014, to investigate allegations of inappropriate autonomous braking while driving a model year (MY) 2014 Chevrolet Impala manufactured by General Motors Corporation and to request certain information. This Preliminary Evaluation also requests information on 2013 Cadillac ATS as peer vehicles.

In a telephone conversation with you on April 24, 2014, General Motors agreed to provide the response to request #1 by May 5, 2014. The due date for the remainder of the response is June 6, 2014.

Your request and our corresponding reply is as follows:

1. **State, by model, engine and model year, the number of subject and peer vehicles GM has manufactured for sale or lease in the United States and federalized territories. Separately, for each subject and peer vehicle manufactured to date by GM, state the following:**
 - a. **Vehicle identification number (VIN);**
 - b. **Model;**
 - c. **Engine (displacement and engine code);**
 - d. **Installed driver assistance system feature package or option;**
 - e. **Installed driver assistance system sensors types, part numbers and suppliers;**
 - f. **Installed driver assistance system controller part number and supplier;**
 - g. **Driver assistance system software release number;**
 - h. **Model Year;**
 - i. **Date of manufacture;**
 - j. **Date warranty coverage commenced; and**
 - k. **The State in the United States, or the federalized territory, where the vehicle was originally sold or leased (or delivered for sale or lease).**



Provide the table in Microsoft Access 2003, 2007, or a compatible format, entitled "PE14 010 PRODUCTION DATA."

General Motors is providing the number of subject and peer vehicles which were sold or leased in the United States and federalized territories in Tables 1-1 through 1-3 below.

Please note that General Motors sold two Impala models in MY2014. In the first part of the MY2014 production, the Impala was a carry-over style. A new platform and body style, the Impala E, production began mid-MY2014.

MAKE	MODEL	MODEL YEAR	ENGINE RPO					TOTAL SUBJECT AND PEER VEHICLES
			LCV	LFX	LTG	LKW	LUK	
CHEVROLET	IMPALA E	2014	0	68,919	0	35,971	875	105,765*
CHEVROLET	IMPALA	2014	0	56,116	0	0	0	56,116
CADILLAC	ATS	2013	13,203	7,917	18,256	0	0	39,376
TOTAL			13,203	132,952	18,256	35,971	875	201,257

TABLE 1-1: SUBJECT AND PEER VEHICLE PRODUCTION

*NOTE: 2014 IMPALA E POPULATION AS OF APRIL 28, 2014 QUERY

MAKE	MODEL	MODEL YEAR	SAFETY SYSTEM RPO				TOTAL SUBJECT VEHICLES
			UEU	UEU/KSG	UEU/UGN/KSG	ALL OTHER	
CHEVROLET	IMPALA E	2014	52,499	1,500	12	51,754	105,765
CHEVROLET	IMPALA	2014	0	0	0	56,116	56,116
TOTAL			52,499	1,500	12	107,870	161,881

TABLE 1-2: SUBJECT VEHICLE PRODUCTION

MAKE	MODEL	MODEL YEAR	SAFETY SYSTEM RPO				TOTAL PEER VEHICLES
			UEU	UEU/KSG	UEU/UGN/KSG	ALL OTHER	
CADILLAC	ATS	2013	10,876	0	1,070	27,430	39,376

TABLE 1-3: PEER VEHICLE PRODUCTION

General Motors is providing descriptive information of Regular Production Option (RPO) codes for Engine and Collision Preparation System Options on subject and peer vehicles in Tables 1-4 through 1-5 below.

RPO	DESCRIPTION
LFX	ENGINE GAS, 6CYL, 3.0L, SIDI, DOHC, VVT, E85 MAX, ALUM
LKW	ENGINE GAS, 4CYL, 2.5L, SIDI, DOHC, E85 MAX, ALUM, GM
LUK	ENGINE GAS, 4 CYL, 2.4L, D1, ALUM, DOHC, BAS, ECOTEC
UEU	FORWARD COLLISION ALERT
KSG	ADAPTIVE CRUISE CONTROL WITH CRASH IMMINENT BRAKING
UGN	SENSOR COLLISION AVOIDANCE

TABLE 1-4: IMPALA REGULAR PRODUCTION OPTION (RPO) DESIGNATIONS

*NOTE – AS OF MARCH 28, 2014, UGN "SENSOR COLLISION AVOIDANCE" IS USED AS AN ADDITIONAL SYSTEM IDENTIFIER FOR THE "KSG ADAPTIVE CRUISE CONTROL W/ CRASH IMMINENT BRAKING". ALL KSG VEHICLES ALSO HAVE SENSOR COLLISION AVOIDANCE CAPABILITY.

RPO	DESCRIPTION
LCV	ENGINE GAS, 4CYL, 2.5L, L4, SIDI, DOHC, DCVCP, VVT, E85 MAX, E0-E100, ALUM
LTG	ENGINE GAS, 4CYL, 2.0L, SIDI, L4, ALUM DOHC, VVT, DCVCP TURBO, E0-E100, ALUM
LFX	ENGINE GAS, 6CYL, 3.0L, SIDI, DOHC, VVT, E85 MAX, ALUM
UEU	FORWARD COLLISION ALERT
KSG	ADAPTIVE CRUISE CONTROL
UGN	AUTOMATIC COLLISION PREPARATION

TABLE 1-5: 2013 ATS REGULAR PRODUCTION OPTION (RPO) DESIGNATIONS

The production information requested in 1a – 1d as well as 1 h - 1k is provided on the ATT_1_GM disk; folder labeled "Q_01." Refer to the Microsoft Access 2010 file labeled: "Q_01_PRODUCTION DATA."

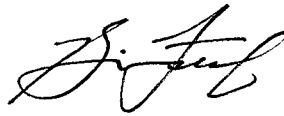
Table 1-6 below shows the Driver Automatic Collision Preparation Systems and corresponding suppliers for the subject and peer vehicles. As agreed in a May 2, 2014 discussion, the remainder of the information requested in 1e, 1f and 1g will be provided in General Motors' final response to this PE14-010 request.

	MAKE	MODEL	MODEL YEAR	SYSTEM FEATURE	SUPPLIER
SUBJECT VEHICLE	CHEVROLET	IMPALA	2014	Long Range Radar	DELPHI
	CHEVROLET	IMPALA	2014	Front Camera Module	MAGNA
PEER VEHICLE	CADILLAC	ATS	2013	EXTERNAL OBJECT CALCULATION MODULE	CONTINENTAL
	CADILLAC	ATS	2013	LONG RANGE RADAR	CONTINENTAL
	CADILLAC	ATS	2013	Short Range Radar	AUTOLIV
	CADILLAC	ATS	2013	Front Camera Module	CONTINENTAL

TABLE 1-6: DRIVER AUTOMATIC COLLISION PREPARATION SYSTEMS/SUPPLIERS

Please contact me if you require further information about this response.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Latouf", written in a cursive style.

Brian Latouf, Director
Field Product Investigations & Evaluations

Attachment