

**SUBCOMMITTEE ON OVERSIGHT AND INVESTIGATIONS
DOCUMENT BINDER INDEX**

April 1, 2014

"The GM Ignition Switch Recall: Why Did It Take So Long?"

Exhibit Number	Document
1	Majority Staff Hearing Memorandum, March 30, 2014
2	February 7, 2014, Letter From Carmen Benavides, Director, Product Investigations and Safety Regulations, General Motors; To Nancy Lewis, Associate Administrator for Enforcement, National Highway Traffic Safety Administration
3	February 24, 2014, Letter From Carmen Benavides, Director, Product Investigations and Safety Regulations, General Motors; To Nancy Lewis, Associate Administrator for Enforcement, National Highway Traffic Safety Administration
4	March 11, 2014, Letter From Carmen Benavides, Director, Product Investigations and Safety Regulations, General Motors; To Nancy Lewis, Associate Administrator for Enforcement, National Highway Traffic Safety Administration
5	March 17, 2014, GM Customer Care and After Sales-Upcoming Safety Recalls 13454 and 14063
6	March 28, 2014, GM News Article, "GM Moves to Secure Recalled Ignition Switches"
7	2001 Ion PRTS that resulted in pre-production ignition switch design change GMHEC000001980-1990
8	2004-2005 PRTS N172404 to examine inadvertent key turn due to contact with driver's knee, closed due to no solution representing acceptable business case GMHEC000001727-1741
9	2005 PRTS reexamine inadvertent key turn due to contact with driver's knee GMHEC000001742-1754
10	Calspan Corporation, Crash Data Research Center, On-Site Air Bag Non-Deployment Investigation, Case No: CA05-049, July 2005 Maryland Crash
11	NHTSA Follow-Up Request for Death Incidents Selected from GM's 3 rd Quarter of 2005 Early Warning Report and GM Response Letter GMHEC000198137-8144; GMHEC000197893
12	December, 2005, General Motors Corporation Service Bulletin No: 05-02-35-007 GMHEC000000001
13	Email Chain between GM and Delphi Employees, Subject: Request for Information Chevrolet Cobalt Ignition Switch P/N 10392423 GMHEC000003192-3206
14	Indiana University, Transportation Research Center, On-Site Air Bag Non-

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	Deployment Investigation, Case No: IN-06-033, October 2006 Wisconsin Crash
15	NHTSA Follow-Up Request for Death Incidents Selected from GM's 4 th Quarter of 2006 Early Warning Report and GM Response Letter GMHEC000198410-8414
16	October, 2006, General Motors Corporation Service Bulletin No: 05-02-35-007A GMHEC000000002
17	Siemens VDO Automotive Corporation Field Event Analysis Report GMHEC000003143-3153
18	September 5, 2007, IE07-080, Non-Deployment of Frontal Airbags in the 20043-2006 Cobalt/Ion NHTSA-HECC-004491-4492
19	November 15, 2007, National Highway Traffic Safety Administration , DAD Panel Presentation NHTSA-HECC-004462-4481
20	Calspan Corporation, Crash Data Research Center, On-Site Air Bag Non-Deployment Investigation, Case No: CA09022, April 2009 Pennsylvania Crash
21	Continental Automotive Systems US, Inc. Field Event Analysis Report GMHEC000003129-3142
22	Chart-Torque to Rotate From Run to Accessory GMHEC000221427
23	September 6, 2012, Email between GM Employees, Subject: Red X Assistance Requested Cobalt 2007 vs 2008 GMHEC000136204
24	Melton v GM GMHEC000003156-3180
25	Delphi Email Chain, Subject: Force Displacement Curves SC-000084
26	Delphi Email Chain, Subject: Delta Ignition Samples with New PCB/Plunger SC-00001-02
27	October 3, 2011, Email from Terry Woychowski to Mary Barra, Subject: NYT on Ion Upgrade GMHEC000221311
28	September 30, 2005, Email Chain From Steven Kirkman To Ray DeGiorgio, Subject: No new Delta/Kappa ign switch for MY 08 GMHEC000219123
29	June 28, 2012, Email from Peter Judis To Brian Stouffer, John Sprague, John Zuzelsi, Terrence E Connoly, Subject: Cobalt Key Cylinder Issue-History of Steering Column Changes Attached GMHEC000221438
30	Email Chain between Ray DeGiorgio and Brian Stouffer, Subject: 2005-07 Cobalt and Ignition Switch Effort GMHEC000221539-1541
31	December 18, 2013 Email Chain between Brian Stouffer and John Murawa, Subject: Cobalt Airbag Chronology GMHEC000224274-4275
32	GM Preventative Action Documentation (N-130454) 2005-2007 Cobalt/Pursuit/G5 Ignition Switch GMHEC000224956-4958
33	Charts GM EFADC Presentation
34	July 24, 2013 Email from Michael J. Robinson, To Gay P Kent, Confidential: NHTSA Email Outlining Concerns about Recent GM Actions GMHEC000222037-2041

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35	April 25, 2006, General Motors Commodity Validation Sign-Off, Delta Ignition Switch SC-000165
36	Delphi Electronics and Safety Report GMHEC000197874-7880
37	May 15, 2006, Delphi Memo on Delta Torque Angle Data SC-000081-83
38	Delphi Memo with April 25, 2006, General Motors Commodity Validation Sign-Off, Delta Ignition Switch SC-000094-96
39	EFADC Presentation on Frontal Airbag Non-Deployment GMHEC000002899-2947
40	EFADC Presentation on Ignition Switch GMHEC000002739-2799
41	EFADC Presentation on Ignition Switch Unintended Rotation GMHEC000002735-2738
42	GM Statement on Chevrolet Cobalt Inadvertent Shut offs GMHEC000143093
43	Plain Dealer Article, "Salamis, key rings and GM's ongoing sense of humor," by Christopher Jenson, June 26, 2005
44	New York Times Article, "Making a Case for Ignitions That Don't Need Keys," by Jeff Sabatini, March 31, 2014
45	Class Action Complaint, Case No: 14-CV-01339-JSW
46	Brian Stouffer Deposition GMHEC000146933
47	Ray DeGiorgio Deposition GMHEC000138906, 8909, 8927, 8932
48	Complete Report GM Aftersales, Ion-Ignition Switch-Column-Intermittent Stall While Driving with no DTC's, GMHEC000000238-0249
49	February 14, 2014, NHTSA Letter to GM, Ignition Switch May Turn Off
50	February 25, 2014, GM Letter to NHTSA on Product Recall
51	March 28, 2014, GM Letter to NHTSA on Product Recall
52	McSwain Engineering, Inc., General Motors Ignition Switch Photos
53	GM Component Technical Specification GMHEC000139324-9356
54	GM Analysis/Development/Validation Plan Report for Suppliers, SC-000019-080
55	Delphi Design Records SC-000103-159
56	GM Root Cause Analysis, GMECH000001748
57	Email regarding short circuit testing with GM Analysis/Development/Validation Plan and Report for Suppliers SC-000003-18
58	GM PPAP Report SC-000415-416
59	List of GM Fatalities Compiled by Democratic Committee Staff
60	Analysis/Development/Validation Plan and Report—GM1829, SC-000400-414
61	Delphi Material/Performance Test Results, SC-000193-197
62	Delphi DFMEA, SC-000167-174
63	Delphi Change Request Form, SC-000091-93
64	GMX001 Lock Module Detent in Run Presentation GMHEC000001718-1726