

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

**June 18, 2014**

**“The GM Ignition Switch Recall: Investigation Update.”**

| <b>Exhibit Number</b> | <b>Document</b>   | <b>Date</b>            | <b>Bates Number</b>                     |
|-----------------------|---|------------------------|---|
| 1                     | General Motors Company Organization Chart   | 1/14/2014<br>1/15/2014 |   |
| 2                     | Ignition Switch/Eaton-Delphi (Koyo)   | 9/21/2001              | GMHEC000442102-07                       |
| 3                     | Increased Detent Force  | 2/19/2002              | GMHEC000444037-39                       |
| 4                     | GMX 357 TACL Issue --- 04/03/02 Steering Column PDT Minutes   | 4/11/2002              | GMHEC000424034                          |
| 5                     | GM Crash Test Special Report; June 24, 2004 Crash   | 7/27/2004              | GMHEC000220547-51                       |
| 6                     | GMX 357 – Saturn ION Ignition Switch – Intermittent No Starts at Cold Temperatures                                  | 11/19/2004             | GMHEC000264113-14                       |
| 7                     | Mid-corner cut outs; Electrical VSE on X001 Program   | 11/21/2004             | GMHEC000330213-14;<br>GMHEC000330211-12 |
| 8                     | PRTS N172404  | 1/7/2005               |   |
| 9                     | Wider Distribution (Core Team and Functional Support)   | 3/1/2005               | GMHEC000228075-76                       |
| 10                    | Torque Study—X001 Ign Cylinder rotation effort; GMX0001 Lock Module Detent in RUN; GMX001 Lock Module Detent in Run | 3/7/2005               | GMHEC000219001-02                       |
| 11                    | Ignition Switch for 2007 GMX001, GMT001, GMX020   | 4/1/2005               | GMHEC000264189-90                       |
| 12                    | GMX 001: Inadvertent Ign turn-off; Delta EPS PDT – 05MAY05 Meeting Minutes  | 5/4/2005;<br>5/5/2005  | GMHEC000337786-87;<br>GMHEC000329832-34 |
| 13                    | Ignition Key Operating Torques  | 5/31/2005              | GMHEC000407568-69                       |
| 14                    | GMX001 VAPIR Meeting  | 6/7/2005               | GMHEC000552133                          |
| 15                    | Wider Distribution (Core Team and Functional Support)   | 6/14/2005              | GMHEC000552111-24                       |
| 16                    | PRTS N182276  | 5/24/2005              |   |
| 17                    | Force displacement curves   | 6/14/2005              | SC-000084                               |
| 18                    | 2006 GMX020 (Solstice) Ignition Cylinder Effort   | 6/14/2005              | GMHEC000276944-51                       |
| 19                    | Wider Distribution (Core Team and Function Support)   | 6/21/2005              | GMHEC000329781-82                       |
| 20                    | UPDATE: X001 Ignition Cylinder; X001 Ignition Cylinder Efforts  | 6/24/2005              | GMHEC000219085                          |
| 21                    | UPDATE: GMX001 Ignition Cylinder Changes  | 6/27/2005              | GMHEC000219094-95                       |

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|-----------------------|--|-------------------------|-----------------------------------|
|                       | – Unintentional Turning Off Engine; X001 Ignition Cylinder Efforts   |                         |                                   |
| 22                    | GMX001 VAPIR Meeting   | 6/28/2005               | GMHEC000552175                    |
| 23                    | Cobalt Ignition Condition  | 6/30/2005               | GMHEC000551913                    |
| 24                    | GMX 002 DLIS-Ignition switch quotes '08 MY   | 7/18/2005               | DLPH_DOJ_0000672-73               |
| 25                    | Deep Dive – FINAL PET APPROVAL   | 9/6/2005                |                                   |
| 26                    | Wider Distribution (Core Team and Functional Support)  | 9/20/2005               | GMHEC000228096-97                 |
| 27                    | TvA graphs GMT-265   | 9/22/2005               | GMHEC000264221-23                 |
| 28                    | No new Delta/Kappa ign switch for MY 08  | 9/30/2005               | GMHEC000219123                    |
| 29                    | 2005 Chevy Cobalt Technical Highlights Gary Altman   |                         | GMHEC200118726-58                 |
| 30                    | Delta Ignition Samples with New PCB/Plunger  | 1/9/2006                | SC-000001-02                      |
| 31                    | New Ign-Switch 15886190 for Delta and Kappa  | 2/17/2006               | GMHEC000330677-81                 |
| 32                    | Continuous Improvements – Delta tool changes   | 3/10/2006               | DLPH_DOJ_0000892-900              |
| 33                    | PQC: 051033/9 (Opened) GMT265 Ignition Switch  | 2/17/2006               |                                   |
| 34                    | Delta PDT Issues; Delphi Eng. Changes Programation   | 3/31/2006               | DLPH_DOJ_0000923                  |
| 35                    | DELTA IGNITION SWITCH CHANGES- Tooling Tweaks Increased Process Capability; Delphi Eng. Changes Programation | 4/5/2006                | DLPH_DOJ_0000927-928              |
| 36                    | Delphi Design Failure Mode and Effects Analysis (FMEA)   | 4/21/2006               | SC-000167-74                      |
| 37                    | Delta Torque/Angle data & GM 3660  | 4/24/2006               | DLPH_DOJ_0000944-59               |
| 38                    | Delta Torque/Angle data & GM 3660; GM Validation Sign-Off  | 4/25/2006;<br>4/26/2006 | DLPH_DOJ_0000942-43; SC-000165-66 |
| 39                    | Delphi Mechatronics Change Request Form  | 1/5/2006                | SC-000091-93                      |
| 40                    | Delta process & quality changes in production Line   | 5/25/2006               | DLPH_DOJ_0000960-69               |
| 41                    | Part Submission Warrant for GMX-357 Anti-Theft Ignition Switch (Delta)                                       | 5/26/2006               | SC-000102                         |
| 42                    | Engineering Change Support Information-Approval for GM to implement change                                   | 5/27/2006               | SC-000094-96                      |
| 43                    | Delta Ignition Switch Voltage Drop follow up conference; Proposed PCB Layout                                 | 6/2/2006                | DLPH_DOJ_0000970                  |
| 44                    | Global Quality Tracking System – PPAP Report   | 6/1/2006                | SC-001409-10                      |
| 45                    | GM Aftersales Complete Report ION-Ignition Switch-Steering Column-No crank/no start                          | 6/20/2006               | GMHEC000226068-83                 |
| 46                    | Ignition Switch-Steering Column Incident Report  | 6/13/2006               | GMHEC000000352-64                 |

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|-----------------------|---|---|---|
| 47                    | Collision Analysis & Reconstruction Report Prepared by Keith A. Young, Trooper, WI  | 2/14/2007                                     | GMHEC000284699-711  |
| 48                    | Cobalt/Ion Bulletin   | 4/24/2007                                     | GMHEC000386832  |
| 49                    | Action Items from NHTSA Quarterly; Chevrolet Cobalt Air Bag ETAs; ISR Agenda for 5/4 – Revised; Cobalt and ION Non-Deployment Comparison; Meeting Notice – Cobalt & Ion Airbag Sensing Product Improvement 5/18 | 3/30/2007<br>4/4/2007<br>5/3/2007<br>5/9/2007 | GMHEC000419934;<br>GMHEC000285480-84;<br>GMHEC000273388;<br>GMHEC200034362;<br>GMHEC000398765 |
| 50                    | 2008 X001 Cost Save To Go With Strattec Steering Column Ignition Cylinders  | 1/30/2008                                     | GMHEC000277710-11   |
| 51                    | Indiana University, Transportation Research Center, On-Site Air Bag Non-Deployment Investigation, Case No: IN-06-033, October 2006 Wisconsin Crash  | 3/31/2008                                     |   |
| 52                    | Cost and timing to change Cobalt ign switch to Equinox style  | 10/13/2008                                    | GMHEC000281846-47   |
| 53                    | E7200 Cobalt Warranty Reduction, Cobalt 2008MIS 5 phase 26JA09 update   | 1/27/2009                                     | GMHEC000409008-25   |
| 54                    | Cobalt PQSR Jan. 29; Altman – Quality Review – Lordstown January 29 09  | 1/29/2009                                     | GMNHTSA000281702-61   |
| 55                    | URGENT Request! PRTS 1078137: PWO 1070202 Cobalt Key Hole Change to Address Customer Complaint  | 2/18/2009                                     | GMHEC000282093  |
| 56                    | Cobalt Airbags  | 4/20/2009                                     | GMHEC000646950-52   |
| 57                    | Chevy Cobalt MY2006_GMX001 Harding Report   | 5/11/2009                                     |   |
| 58                    | Cobalt Information – airbag non-deployments   | 7/21/2011                                     |   |
| 59                    | GMX001 Proposal   | 12/20/2011                                    | GMHEC000620200  |
| 60                    | Review of key design change for Bill Kemp project   | 3/29/2012                                     | GMHEC000221338-40   |
| 61                    | Meeting with Terry Woychowski (req by Bill Kemp) to "kick off Cobalt engineering effort." Need to "settle debate and get started"   | 5/9/2012                                      | GMHEC000221384-86   |
| 62                    | Dolan Slides that summarize “the Cobalt issue” for Meeting and Wachtel Notes  | 5/15/2012                                     | GMHEC000282935+native;<br>GMHEC000221400-01   |
| 63                    | 2005-7 Cobalt/G5 Slides   |   |   |
| 64                    | Testing Ignition Torque at Davidson/Salvage Yard  | 5/22/2012                                     | GMHEC000221425 and<br>GMHEC000221428 (plus natives)   |
| 65                    | 2005-7 Cobalt/G5 Frontal Airbags Slides   |   |   |
| 66                    | Sprague provides Wachtel/Stouffer with raw number of claims for non-deployment involving  | 10/4/2012                                     | GMHEC000221533  |

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|                       | Cobalt and Ion; Attachment   |                        |                                 |
| 67                    | Stouffer requests that Ray D. develop a proposal to increase the torque in the ignition switch per direction from meeting with J. Fed  | 10/4/2012              | GMHEC000221539-41               |
| 68                    | T. Connelly Summary of the meeting; J Fed in "wait/see mode" on electronic fix. Wants all alternatives scoped  | 10/7/12                | GMHEC000221551-1553             |
| 69                    | Electronic solutions won't work so explore mechanical solutions and GMHEC000221648 (BCM Slide)   | 11/27/2012             | GMHEC000274510-513              |
| 70                    | NHTSA Email Outlining Concerns about Recent GM Actions; Meeting on the 25th  | 7/24/2013<br>7/23/2013 | GMHEC000222037-41               |
| 71                    | Cobalt non-delays  | 10/8/2013              | GMHEC000283663                  |
| 72                    | 2005-7 Cobalt Airbag Presentation  | 11/4/2013              | GMHEC000251136                  |
| 73                    | 2005-2007 Cobalt/Pursuit/G5 Front Airbag Non-Deployment  |                        |                                 |
| 74                    | Letter From Carmen Benavides, Director, Product Investigations and Safety Regulations, General Motors; To Nancy Lewis, Associate Administrator for Enforcement, National Highway Traffic Safety Administration on Product Recall | 2/7/2014               |                                 |
| 75                    | Letter From Carmen Benavides, Director, Product Investigations and Safety Regulations, General Motors; To Nancy Lewis, Associate Administrator for Enforcement, National Highway Traffic Safety Administration on Product Recall | 2/25/2014              |                                 |
| 76                    | Letter From Carmen Benavides, Director, Product Investigations and Safety Regulations, General Motors; To Nancy Lewis, Associate Administrator for Enforcement, National Highway Traffic Safety Administration on Product Recall | 3/28/2014              |                                 |
| 77                    | GM Preventative Action Documentation (N-130454) 2005-2007 Cobalt/Pursuit/G5 Ignition Switch  |                        | GMHEC000224956-58               |
| 78                    | Unintentional Ignition Switch Rotation DFSS Presentation– Joe Fedullo  | 4/28/2014              |                                 |
| 79                    | United States Department of Transportation NHTSA Consent Order TQ14-001 NHTSA Recall No. 14V-047; Exhibit A, Exhibit B   | 5/16/2014              | Exhibit B:<br>GMHEC000258534-80 |

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|----------------|--|------------|-------------------|
| 80             | California Superior Court County of Alameda  | 10/11/2000 |                   |
| 81             | Letter from Rep. Waxman, Rep. DeGette, Rep. Schakowsky to Mary T. Barra, CEO, GMC  | 3/31/2014  |                   |
| 82             | Letter from Gay P. Kent, Director, Product Investigations and Safety Regulations, GM to Daniel C. Smith, Associate Administrator for Enforcement, National Highway Traffic Safety Administration, Recall Management Division | 3/1/2010   |                   |
| 83             | Hot Alert for the 2006 Chevy Impala Special  | 10/3/2005  | GMHEC000442219-21 |