

RECEIVED NVS-215

May 7, 2004

Thomas Z. Cooper, Chief Vehicle Integrity Division Office of Defects Investigation NHTSA Safety Assurance Room #5326 400 Seventh Street, S.W. Washington, D.C. 20590 **确拟门户25**54

OFFICE OF DEFECTS INVESTIGATION

GM-852

NVS-212peo RQ04-002

Dear Mr. Cooper:

This letter is General Motors (GM) response to your Recall Query information request (IR), dated February 25, 2004, regarding alleged energy absorbing loop deployment of the driver's seat belt assembly during rollover crashes, on 1997 model year Chevrolet S-10 and GMC Sonoma Pickup vehicles.

Your questions and our corresponding replies are as follows:

- State, by model, model year and sesting position(s), the number of subject vehicles GM has manufactured for sale or lease in the United States. In addition, state, by model, model year and sesting position(s) the number of other vehicles containing an energy-absorbing loop management system GM has manufactured for sale or lease in the United States. Separately, for each subject vehicle manufactured to date by GM, state the following:
 - a. Vehicle identification number (VIN);
 - b. Make:
 - c. Model:
 - d. Model Year:
 - e. Date of manufacture:
 - f. Date warranty coverage commenced; and
 - g. The State in the United States where the vehicle was originally sold or lessed (or delivered for sale or lesse).

Provide the table in Microsoft Access 2000, or a competible formet, entitled "PRODUCTION DATA." See Engiosure 1, Data Collection Disc, for a pre-formatted table which provides further details regarding this submission.

The number of subject vehicles GM has manufactured for sale or lease in the United States is shown in Table Q1-1. An electronic summary of the production data is provided on the CD identified as Attachment 1; refer to the Microsoft Access 2000 fits in the folder labeled Response for Q1 -PRODUCTION DATA.* This data was collected from the GM Claims Analysis Retrieval Database (CARD) on March 22, 2004. GM is providing production counts of Utility vehicles based on a verbal agreement with NHTSA in mid-March 2004.

VEHICLE	PICKUP	Unuity	TOTAL
Chevrolet	180,037	211,708	391,748
GMC	38,687	73,278	111,965
Oldsmobile	Ó	27,731	27,731
lauzu Hombre	11,852	0	11,852
Total	230,576	312,715	543,291

TABLE Q1-1 PRODUCTION DATA SUMMARY

Product investigations

Mail Code: 480-108-904 • 80500 Mound Road • Warren, MI 48090-9055

Phone: (686) 986-8029 • Fax: (586) 947-2318

GMSt2 Response



- State the number of each of the following, received by GM, or of which GM are otherwise sware, which relate to, or may relate to, the alleged defect in the subject vehicles:
 - Consumer complaints, including those from fiset operators;
 - b. Fleid reports, including dealer field reports;
 - c. Reports involving a crash, injury, or fatality, based on claims against the manufacturer involving a death or injury, notices received by the manufacturer alleging or proving that a death or injury was caused by a possible defect in a subject vehicle, property damage claims, consumer complaints, or field reports;
 - d. Property demage claims;
 - Third-party arbitration proceedings where GM is or was a party to the arbitration;
 - Laweuite, both pending and closed, in which QM is or was a defendant or codefendant.

For subparts "a" through "d," state the total number of each item (e.g., consumer complaints, field reports, sto.) separately. Multiple incidents involving the same vehicle are to be counted separately. Multiple reports of the same incident are also to be counted separately (i.e., a consumer complaint and a field report involving the same incident in which a crash occurred are to be counted as a crash report, a field report and a consumer complaint).

in addition, for items "c" through "f," provide a summary description of the sileged problem and causal and contributing factors and GM's assessment of the problem, with a summary of the significant underlying facts and evidence. For items f and g, identify the parties to the action, as well as the caption, court, docket number, and date on which the complaint or other document initiating the action was filed.

Table Q2-1 summarizes the reports to GM that could relate to the subject condition. The FARS data are reported separately in response to question 8.

are teported separately in response to question b.									
Туре о г Пер овт	COUNT (INCLUDING OUPLICATER)	GMA REPORTS	GM PEPORTS COMPLES PONDING TO MHTSA PLEPORTS	Humber of Piercrits Alleghig Property Danage	NUMBER OF PERCETS ALLEGANS PATALITIES	LOCATION OF REPORTS (CD ATTACHMENT 1)			
Owner Reports	0	٥	0	0	¢	Not Applicable			
Fleid Reports	1	0	1	0	1	Folder labeled "Response to Q2" in folder 28			
Hot-In-Suit Claims	0	0	0	O	0	Not Applicable			
Subrogation Claims	0	Q	0	0	0	Not Applicable			
3rd Party Arbitration . Proceedings	0	a	0	0	0	Not Applicable			
Product Liability Languits*	1	0	1	0	1	Folder labeled "Response to Q2" in folder 2F			
Total (Including Duplicates)	2	0	2	0	2	Not Applicable			
Total (Excluding Duplicates)	2	0	2	0	2	Not Applicable			

TABLE Q2-1: REPORTS FOR GM652/RQ04-002

A detailed report of this laweuit is reported as part of the ESIS field investigations on the CD identified as Attachment 2 GM Confidential. See the folder labeled "Response to Q8 GM Confidential" in folder labeled "ESIS field investigation GM Confidential."

The sources of the requested information and the test date the searches were conducted are tabulated in Table Q2-2 below.

SOURCE SYSTEM	LAST DATE GATHERED
Corporate Central Filia	03/02/2004
Customer Assistance Center	03/23/2004
Technical Assistance Center	03/18/2004
Field Information Network Database (FIND)	03/16/2004
Fleki Product Report Detabase (FPRD)	03/16/2004
Company Vehicle Evaluation Program (CVEP)	03/16/2004
Captured Test Fleet (CTF)	03/16/2004
Legal / Employee Self Insured Services (ESIS)	03/18/2004

TABLE 02-2: DATA SOURCES

- 3. Separately, for each item (completet, report, claim, notice, or matter) within the scope of your response to Request No. 2, state the following information:
 - a. GM's file number or other identifier used;
 - The category of the item, as identified in Request No. 2 (i.e., consumer complaint, field report, etc.);
 - c. Vehicle owner or fleet name (and fleet contact person), address, and telephone number:
 - d. Vehicle's VIN;
 - Vehicle's make, model and model year;
 - f. Vehicle's mileage at time of incident;
 - g. Incident deter
 - h. Report or claim date;
 - Whether a grash is alleged;
 - Whether property demage is alleged;
 - k. Number of alleged injuries, if any; and
 - Number of alleged fetalities, if any.

Provide this information in Microsoft Access 2000, or a compatible format, entitled "REQUEST NUMBER TWO DATA." See Endocure 1, Data Collection Disc, for a preformatted table which provides further details regarding this submission.

An electronic summary of the records included in Item 2 is provided on the CD identified as Attachment 1; refer to the Microsoft Access 2000 file in the folder lebeled "Response to Q3 – REQUEST NUMBER TWO DATA." GM has organized this summary by GM file number within each attachment.

4. Produce copies of all documents related to each item within the scope of Request No. 2. Organize the documents separately by category (Le., consumer complaints, field reports, etc.) and describe the method GM used for organizing the documents.

Refer to the Table Q2-1 above. The reports are provided on the CD identified as Attachment 1; refer to the folder labeled "Response to Q2" in labeled folders "28 Field Report" and "2F

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Product Liability Lawsuit*. GM has organized the reports by GM file number within each attachment.

5. State, by model and model year, a total count for all of the following categories of claims, collectively, that have been paid by QM to date that relate to, or may relate to, the alleged defect in the subject vehicles: warranty claims; extended warranty claims; claims for good will services that were provided; field, zone, or similar adjustments and reimbursements; and warranty claims or repeirs made in accordance with a procedure specified in a technical service buildin or customer estimation compaler.

Separately, for each such oldim, state the following information:

- a. GM's claim number;
- b. Vehicle owner or fleet name (and fleet contect person) and telephone number:
- c. VIN:
- d. Repair date:
- e. Vehicle mileage at time of repair;
- f. Repairing dealer's or facility's name, telephone number, city and state or ZIP code;
- Labor operation number;
- h. Problem code;
- Replacement part number(s) and description(s);
- Concern stated by oustomer; and
- k. Comment, if any, by declar/technician relating to claim and/or repair.

Provide this information in Microsoft Access 2000, or a compatible format, entitled "WARRANTY DATA." See Enclosure 1, Data Collection Disc, for a pre-formatised table which provides further datalis regarding this submission.

GM searched Claims Analysis Retrieval Database (CARD - regular warranty), Motors insurance Corporation (MIC - extended warranty) and Universal Warranty Corporation (UWC - extended warranty) databases. Searches were completed on March 19, 2004.

GM found 1 warranty report for the subject vehicles that may be related to the subject condition on GM vehicles for sale or lease in the U.S. A summary of warranty claim that may relate to the subject condition on GM vehicles for sale or lease in the U.S. is provided on the CD identified as Attachment 1; refer to the Microsoft Access 2000 files in the folder labeled "Response to Q5 — WARRANTY DATA."

GM concluded that none of the other warranty reports were related to the alleged defect due to the collision force required to deploy the seat belt energy-absorbing loop during rollover crashes. Given the definition of defect and the severity of an incident necessary for loop deployment, the vehicle most likely would be totaled, so the absence of repair or replacement under these circumstances is not surprising.

GM's warranty database does not contain the following information: vehicle owner's name or telephone number, replacement part number description, repairing dealer's name, customer concern statement, or dealer/technician comment. In addition to GM's warranty database exclusion, the MiC database does not contain the following information: dealer's phone number, problem code, or part number. The verbatim text is an optional field, not required to be completed for every warranty claim. It is for the dealer to enter any additional comments that may be applicable to the warranty claim.

The warranty data provided has limited analytical value in analyzing the field performance of a motor vehicle component. The warranty records do not contain sufficient information to establish the condition of the part at the time of the warranty correction; and service personnel may not consistently use the appropriate tabor and trouble codes. Warranty numbers represent claims by our dealers for reimbursement for parts and labor costs incurred in performing warranty service for our customers.

6. Describe in detail the search oritoria used by GM to identify the claims identified in response to Request No. 5, including the labor operations, problem codes, part numbers and any other pertinent parameters used. Provide a list of all labor operations, labor operation descriptions, problem codes, and problem code descriptions applicable to the alleged defect in the subject vehicles. State, by make and model year, the terms of the new vehicle warranty coverage offered by GM on the subject vehicles (i.e., the number of months and mileage for which coverage is provided and the vehicle systems that are covered). Describe any extended warranty coverage option(s) that GM offered for the subject vehicles and state by option, model, and model year, the number of vehicles that are covered under each each extended warranty.

The regular warranty data was collected from the GM CARD database by searching for the labor codes and trouble codes fisted in Tables Q6-1 and 6-2. Extended warranty data was collected from MIC by searching for the labor codes listed in Table Q6-1.

LABOR CODE	DESCRIPTION
C9041	Retractor, LF
C9021	Safety belt, L.Frt Buckie Side-Repl
C9181	Safety belt assembly, Lt Front-Repl

TABLE Q8-1: LABOR CODES USED IN CARD & MIC SEARCH

	TROUBLE CODE	DESCRIPTION				
1	3Z	Ruptured				

TABLE Q6-2: TROUBLE CODES USED IN CARD SEARCH

UWC does not offer extended coverage for Seat Belts.

The warranty data provided has limited analytical value in analyzing the field performance of a motor vehicle component. The warranty records do not contain sufficient information to establish the condition of the part at the time of the warranty correction; and service personnel may not consistently use the appropriate labor and trouble codes. Warranty numbers represent claims by our dealers for reimbursement for parts and labor costs incurred in performing warranty service for our customers.

7. Produce copies of all service, warranty, and other documents that relate to, or may relate to, the alleged defect in the subject vehicles, that GM has leaved to any deglers, regional or zone offices, field offices, fleet purchasers, or other entities. This includes, trut is not limited to, bulletine, advisories, informational documents, training documents, or other documents or communications, with the exception of standard shop manuals. Also include the latest draft copy of any communication that manufacturer's short name is planning to leave within the next 120 days.

GM has identified the following service bulletins that may relate to the alleged defect in the subject vehicles and is provided on the CD identified as Attachment 1; refer to the folder labeled "Response to Q?":

Oriver's Sefety Belt Buckle Recall Bulletin #03020 - (August, 2003)
Driver's Sefety Belt Buckle Recall Bulletin #03020A - (October, 2003)
Info - Seat Belt System Replacement Guidelines for Vehicles Involved in Collisions #01-09-40-002 - (06/21/2001)

GM has not identified any such draft communications that GM is planning to issue within the next 120 days.

The preceding information was collected from GM Service Operations. The data collection was completed on March 16, 2004.

- 8. Describe all assessments, analyses, tests, test results, studies, surveys, simulations, investigations, inquiries end/or evaluations (collectively, "actions") that relate to, or may relate to, the alleged defect in the subject vehicles that have been conducted, are being conducted, are planned, or are being planned by, or for, GM (including those performed on 8/T utility vehicles in support of 03V-117). For each such action, provide the following information:
 - e. Action title or identifier:
 - b. The actual or planned start data:
 - o. The solusi or expected and date;
 - d. Brief summery of the subject and objective of the action;
 - Engineering group(a)/supplier(e) responsible for designing and for conducting the sotion; and
 - f. A brief summery of the findings end/or conclusions resulting from the action.

For each action kientified, provide copies of all documents related to the action, regardless of whether the documents are in interim, draft, or final form. Organize the documents chronologically by action.

Table Q6-1 contains a summary of the reports found on the CD Identified as Attachment 1; refer to the folder labeled "Response to Q6":

ÎŢ.E	START DATE	END DATE	Овлестіче	ORGANIZATION	PERMITS
GM Beet Belt Cumperant Test Reports	Aug. 2001	Dec. 2001	GM Requested to TRW to conduct seat belt energy absorbing loop tests to evaluate performance to classion expediteations.	GM Field Perkumance Assessment	5 cut of 6 each belts men or ecceeded the burst and tear etholing load requirements of the energy-absorbing loop.
NCAP Charl	Mer. 2004	Mer. 2004	Summarize NCAP test reports of MY 1995- 1998 Pickaps and Utilities	GIT	Test reports are nummerized and graphed.
TRW Chert for FPE Entry	Dec. 1995	Dec. 1995	Validate Energy- Absorbing seat belt buckle tear and burst ettoh	TPW	Data collected and ell samples tested within specification.
Statistical analysis of FARS data	Oct. 2002	Oct. 2002	Eveluate statistical significance of FARS date	GM	See Field Performance Evaluation report.

TABLE QB-1: TESTING/ANALYSIS RELATING TO THE SUBJECT CONDITION

Table Q8-2 contains a summary of the reports found on the CD identified as Attachment 2 GM Confidential; refer to the folder labeled "Response to Q8 GM Confidential":

Title	Start Date	End Date	Objective	Organization	Results
Engineering Test Reports	Jen. 1995	Apr. 1996	Test to meet FMVSS 209 and GM internal	GM Product Engineering	FMV88 208 and GM Internal requirements
			Restraint System		met for both active
·			Evaluation		and peasive restraint
			Considerations		eyalam.
ESIS Field	Mer.	Mar.	investigate and study	GM	Alleged delect
investigations	2001	2008	incidente reported in		incidents on utility
	i		FARS database		vehicles require
					corrective measure.
FMV88 208,	Mar.	Mer.	Report crashworthiness	GM Product	1997 S/T Utility and
209, 210	1995	1997	teet results of 1997 S/T	Engineering	Plotsup vehicles met or
Compliance			Utility and Pickup		seconded the
Reports			vehicles		compliance requirements
GM Fleid	Feb.	Mar.	Summarize and present	GM	GM decided to
Performance	2005	2003	the condition of Utility	GM.	conduct a safety-recal
Evaluation	2003	200	and Pickup vehicles seat		on 1997 8/T utility
Report			bolt assembly		verhicles.
document			performance.		
GM	May	Mery	Report of driver side	GM Product	PAC concurred that
Performance	1996	1996	component changes and	Engineering	occupant performance
Assessment	1000	1444	review occupant		of 1997 S/T Utility and
Committee			performance criteria.		Pickup vehicles met
Report					GMFs requirements.
GM	Feb.	Mer.	Explain differences in	GM Product	Met with NHTSA on
Presentation to	2004	2004	field performance of	Investigations	March 10, 2004 and
NHTSA			ušlity ve. pickup	•	presented the
			vehicies.		information.
Utility Recall	Oat	Mer.	Run utility vehicle	GM	Littility vehicle with
Remedy Teet	2002	2004	FMV88 208 frontal		energy-absorbing
Report	i l		bernier teet for a mon-		buolde met or
	i l		energy-absorbing		exceeded the
			budkie.		compliance
					requirements
Berrier Test	Jun.	JUD.	Advanced agreement of	GM Product	Appropriets GM
Admowledge-	1995	1996	barrier test compliance	Engineeri ng	engineers end
ment					management
		•	Englands - 1 - 1 - 1		approved.
Statistical	Oct	Oct	Evaluate statistical	GM	See Fletd
analysis of	2002	2002	significance of FARS		Performance
FARS data			deta	·	Evaluation report.

TABLE Q8-2: TESTING/ANALYSIS RELATING TO THE SUBJECT CONDITION

9. Describe all modifications or changes made by, or on behalf of, GM in the design, material composition, manufacture, quality control, supply, or installation of the subject component, from the start of production to deta, which relate to, or may relate to, the alleged defect in the subject vehicles. For each such modification or change, provide the following information:

- The date or approximate date on which the modification or change was incorporated into vehicle production;
- b. A detailed description of the modification or change;
- The reason(s) for the modification or change;
- d. The part numbers (service and engineering) of the original component;
- e. The part number (service and engineering) of the modified component;
- Whether the original unmodified component was withdrawn from production and/or sale, and if so, when;
- g. When the modified component was made available as a service component; and
- Whether the modified component can be interchanged with earlier production components.

Also, provide the above information for any modification or change that QM is sware of which may be incorporated into vehicle production within the next 120 days.

Table Q9-1 contains a aurnmary of the reports found on the CD identified as Attachment 1; refer to the folder labeled "Response to Q9":

DESCRIPTION OF THE MCORPICATION	DATE OF PRODUCTION MODIFICATION	FLEASON FOR MODIFICATION	PART MUMBERS OF ORIGINAL COMPONENT	PART KANBER OF MICHIED COMPONENT	WITHERAM FROM PREDUCTION B/CR BALE	MODIFICATION AVAILABLE IN BERVICE	MCDIFICATION INTER- CHUNGEABLE WITH EARLIER COMPONENT
Engineering Work Order ABPRCT to release allied division and outside vendors originated drawing revisions	Mer. 1996	Quality suppliers to refectes drawings with approval of Design Responsible Engineer	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Engineering Work Order ASCCW to release seat belt sesembly without energy absorbing loop for Service	Aug. 2003	Service Only	Vertous	Various	None for Production. Dispose for Service	None	Interchange- able

TABLE Q9-1: MODIFICATIONS

Table Q9-2 contains a summary of the report found in hard copy Attachment GM Confidential; refer to the folder labeled "Response to Q9 GM Confidential":

DESCRIPTION OF THE MODIFICATION	DATE OF PRODUCTION MODIFICATION	FIEASON FOR MODIFICATION	PART NUMBERS OF CRIGINAL COMPONENT	PARY NUMBER MODERED COMPONENT	WITHORAUM FROM PRODUCTION &/ON BALE	MODIFICATION AVAILABLE IN SERVICE	MODIFICATION INTER- CHANGEABLE WITH EARLIER COMPONENT
Engineering Drawings of seat belt assembly	Aug. 1998	Added GM2752M Impact location	16727789 15727779	None	None	None	None

TABLE Q9-2: MODIFICATIONS GM CONFIDENTIAL

10. Produce two of each of the following:

- Exampler samples of each deelgn version (for each seating position) of the subject component;
- Exampler eamples of the design version used in the driver seating position in the vehicles associated with 03V-117;
- Field return samples of the subject component exhibiting the deployed mode;
- d. Any kits that have been released, or developed, by GM for use in service repairs to the subject component/assembly which relate, or may relate, to the alleged defect in the subject vehicles; and
- Any kits that have been released, or developed, by GM for use in service repeirs to the vehicles associated with 03V-117.
 - a. GM released one original design version of the seat bett assembly with four different colors for both production and service. Two samples of the driver seat belt assembly for Bucket seat in Graphite color are provided with this response. Both seat belt essembles are cut along the side to reveal the mechanism of the energy-absorbing loop. One of the seat belt energy-absorbing loops was cut by a lorife to show the stitching tears. GM was unable to locate two samples of the driver seat belt assembly for bench seat applications.
 - b. Two samples of the driver seet belt essembly for Bucket seats and two samples for Bench seats in Graphite color are provided with this response.
 - Due to the infrequency and severity events associated with the alleged defect, no pickup vehicle field return samples are available.
 - d. No kits have been released or developed.
 - No kits have been released or developed. A seat belt bolt removal tool (BO-47549)
 was released with 03V-117. GM can provide this tool to NHTSA if requested.
- 11. State the number of each of the following that GM has sold that may be used in the subject vehicles by component name, pert number (both service and engineering/production), model and model year of the vehicle in which it is used and month/year of sale (including the cut-off date for sales, if applicable):
 - Subject component; and
 - Any kits that have been released, or developed, by GM for use in service repairs to the subject component/assembly.

For each component part number, provide the supplier's name, address, and appropriate point of contact (name, title, and telephone number) Also identify by make, model and model year, any other vehicles of which GM is aware that contain the identical component, whether installed in production or in service, and state the applicable dates of production or service usage.

An electronic summary table of the requested service part information for the subject component is provided on the CD identified as Attachment 1; refer to the Microsoft Excel file in the folder labeled "Response to Q11." GM does not offer any kits that have been released or developed for use in service repairs specifically related to the subject condition.

These sales numbers represent sales to dealers in the US and Canada. This data has limited analytical value in analyzing the field performance of a motor vehicle component because the records do not contain sufficient information to establish the reason for the part sale. It is not

possible from this data to determine the number of these parts that have been installed in the subject vehicles or the number remaining in dealer or replacement part supplier inventory.

This table contains service part numbers, part description, part usage information including other GM vehicles that contain the identical component, part sales figures by month and calendar year and the supplier's name and address, contact name and phone number. The General Motors Service Parts System does not contain a title of a contact person for each component and is therefore unable to provide this information.

The source of the requested information, current as of March 30, 2004, is GM Service Parts Operations.

12. Furnish GM's assessment of the alleged defect in the subject vehicle, including:

- a. The squeel or contributory factor(s);
- b. The failure mechanism(e);
- The failure mode(e);
- d. The remification to other seating position(s);
- The applicability to defect found in the S/T utility vehicles (03V-117)
- f. The risk to motor vehicle selety that it poses;
- g. What warnings, if any, the operator and the other persons both inside and outside the vehicle would have that the alleged defect was occurring or subject component was malfunctioning; and
- h. The reports included with this inquiry.
 - a. GM is aware of two extremely severe multiple rollover fatality events with 1997 S/T pickup trucks in which there was a sufficiently high belt load to cause full deployment of the energy absorbing loop and the drivers were ejected. Seat belts operate to mitigate ejection but they cannot prevent it entirely, nor can they guarantee that occupants will not receive fatal injuries. Among pickup trucks in tow-away crashes, about 4% roll over, involve one or more complete turns or roll end-over-end. For occupants of these vehicles with serious to fatal level injuries (Abbreviated Injury Scale 4 or greater), about 29% are in vehicles that roll over one or more complete turns or roll end-over-end. Based upon the severe and violent nature of the two multiple rollover events, it does not appear that the deployment of the drivers' energy-absorbing loop was a causal or contributing factor to the tatal injuries sustained by the drivers of these vehicles.
 - b. GM is not ewere of any failure mechanism in the 1997 8/T pickup driver's seat belt buckle assembly contains an energy absorbing toop dealign mechanism that consists of two distinct and sequential deployment phases. The first phase is achieved with burst stitching that deploys under a load of 1,000 lb +/- 200 lb. The second phase is achieved with tear stitching that requires 450 lb +/- 150 lb of continuous load. Energy management devices similar to this energy-absorbing loop are commonly used in restraint systems throughout the industry to control not only occupant kinematics, but also to manage and balance the loads imparted to the occupant by the restraint system.
 - c. GM is not aware of a failure mode in the 1997 S/T pickup driver's seat belt buckle essembly. In fact, the seat belt assembly system has met all FMVSS 208, 209, 210 and GM's internal injury Assessment Reference Value (IARV) safety requirements.

Data from 1997-2002 NASS-CDS

- d. No ramification to other seating positions.
- e. The energy-absorbing loop buckle assembly was implemented in production for 1997 S/T utilities and pickups. The restraint system in both of these products compiles with all of the requirements of FMVSS 208, 208, 210 and GM's internal requirements. General Motors voluntarily conducted recall (03V-117) to address an elevated rate of belted driver ejections in severa multiple rollover events in the 1997 S/T utilities for this market segment. After an extensive review of FARS data and the investigation of over 20 rollover incidents involving 1997 S/T pickup trucks, GM has been able to confirm only two incidents in which the energy absorbing loop decloyed.

The seat belt assembly energy-absorbing loop is designed to not deploy during impact crashes where driver belt loads of less than 1,000 ib +/- 200 ib coour. When the crash severity level is sufficient to generate belt loads greater than 1,000 ib +/- 200 ib, the energy-absorbing webbing deploys incrementally in response to sustained belt loads. During high speed severe multiple rollover incidents, vehicles may experience significant vehicle to ground impacts that can impact a series of high deceleration events to the driver and generate unexpectedly high belt loads. In most rollover incidents, the driver deceleration events are not severe enough to generate driver belt loads aufficient to deploy the energy-absorbing loop in the driver's sext belt buckle. After an extensive review of the field data it was observed that there were hundreds of rollover incidents where the driver was not ejected and the energy-absorbing loop did not deploy in 1997 S/T utilities. However, the data also revealed an elevated rate of belted ejections in severe multiple rollover events that GM sought to address with recall 03V-117.

The energy-absorbing loop in the driver's seat belt buckle is a mechanical device that will respond to a given input; belt loads of sufficient magnitude and duration. The vehicle dynamics present in the 1997 S/T utilities during severe multiple rollover events that regulated in belt loads of sufficient magnitude and duration to deploy the energy absorbing loop are not evidenced with the same frequency in the rollover events involving 1997 S/T pickups. As stated above in section a., GM is swere of only two incidents with pickups where the energy-absorbing loop deployed in a severe rollover event.

- f. The driver's seat belt buckle assembly in the 1997 S/T pickup does not pose an unreasonable risk to motor vehicle safety. No seat belt system can aliminate all risk to an occupant in every crash configuration. The energy-absorbing loop in the seat belt buckle assembly not only compiled with all GM and FMVSS requirements, but in fact operates to optimize the overall restraint of the occupant in a variety of crash configurations. Moreover, as discussed during GM's March 10, 2004 presentation, S/T Pickup field performance is comparable to several peer vehicles with respect to ejection of belted drivers in fatal rollover crashes. (See Table Q8-2)
- g. Since the alleged defect posses no additional risk to motor vehicle safety, no warnings of seat belt malfunction is provided to the driver.
- The two Vehicle Owner's Questionnaires appear to be consistent with the alleged defect statement.

GM claims that certain information, in documents that are part of lawsuit and claims files maintained by the GM Legal Staff, is attorney work product and/or privileged. That information includes notes, memos, reports, photographs, and evaluations by attorneys (and by consultants, claims analysis, investigators, and engineers working at the request of attorneys). GM is producing responsive documents from claims files that are neither attorney work product nor privileged and withholding those that are attorney work product and/or privileged.

This response is based on searches of General Motors Corporation (GM) locations where documents determined to be responsive to your request would ordinarily be found. As a result, the scoope of this search did not include, nor could it reasonably include, "all of its divisions, subsidiarias (whether or not incorporated) and affiliated enterprises and all of their headquarters, regional, zone and other offices and their employees, and all agents, contractors, consultants, altorneys and lew firms and other persons engaged directly or indirectly (e.g., employee of a consultant) by or under the control of GM (including all business units and persons previously referred to), who are or, in or after 1994, were involved in any way with any of the following related to the alleged defect in the subject vehicles:

- Design, engineering, analysis, modification or production (e.g. quality control);
- b. Testing, assessment or evaluation:
- Consideration, or recognition of potential or actual defects, reporting, record-keeping and information management, (e.g., complaints, field reports, warranty information, part sales), analysis, claims, or lawsuits; or
- d. Communication to, from or intended for zone representatives, fleets, dealers, or other field locations, including but not limited to people who have the capacity to obtain information from dealers.

This response was compiled and prepared by this office upon review of the documents produced by various GM locations, and does not include documents generated or received at those GM locations subsecuent to their searches.

Please contact me if you require further information about this response or the nature or scope of our searches.

Sincerely,

Gely P. Kent Director

Product Investigations

Attachments



U.S. Department of Ticreportation Stational Highway Traffic Solety Administration

FEB 25 2004

GM-652

400 Severith Street, S.W. Westfrager, D.C. 10000

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CERTIFIED MAIL RETURN EXCEPT REQUESTED

Gay P. Kent, Director Product Investigations General Motors Corporation Mail Code 480-106-304 30500 Mound Reed Warren, MI 48060-9055 NV8-212.pcc RQ64-002

Dear Ma. Kent:

This letter is to inform you that the Office of Defects Investigation (ODI) of the Netional Highway Traffic Safety Administration (NRTSA) has opened a Recall Query (RQ04-002) to investigate allegations of the energy-absorbing loop in the driver's safety belt buckle assembly may deploy during reliever crashes and increase the risk of partial or full ejection of the accupant in model year (MY) 1997 Chevrolet 5-10 and GMC Sonoma Pickup Tracks manufactured by General Motors Corporation, and to request certain information.

This office has received two reports alleging the energy-absorbing loop in the driver's staty belt bindle assembly deployed during a religious arish in a MY 1997 Chevrolet 8-10 pickets truck. In each erash, a belted driver was ejected and received fittal injuries to the head. The alleged defict appears to be consistent with the subject of GM's recall of carmin MY 1997 Chevrolet Hazar, GMC Jimmy and Oldsmobile Branch appears at life vehicles (NETSA Recall No. 63V-17) to cornerly defective driver rest belt implies assemblies (constituting an energy absorbing loop). A stepy of each of the reports is anothers for your information.

Unless otherwise stated in the text, the following definitions apply to those information deposits:

- Subject validate: All MY 1997 Cheyrolet S-10 and GMC Sonoma Pickup Trucks
 containing the subject component manufactured for sale or lease in the United Signs. In
 eddition, all other MY S-10 and Scooms trucks religing the subject component and
 manufactured for sale or lease in the United States shall be included.
- Bublist component: Driver's side energy-absorbing loop area belt assembly
 manufactured on the subject vehicles. In addition, all other energy-absorbing loop sees
 belt assembly in all other seeting positions in misject vehicles.



POT AUTO BAPETY FOTLAND MEDICAL COT MEDICAL COLOR

- GM: General Motors Corporation, all of its past and present officers and employees, whicher assigned to its principal offices or any of its field or other locations, including all of its divisions, substituties (whether or not incorporated) and affiliated enterprises and all of their headquarters, regional, some and other offices and their employees; and all agents, contractors, consultants, atterneys and law firms and other persons engaged directly or indirectly (e.g., employee of a consultant) by or under the control of GM (including all business units and persons previously referred to), who are or, in or after 1994, were involved in any way with any of the following related to the alleged defact in the subject vehicles:
 - a. Design, engineering, analysis, modification or production (e.g. quality control);

b. Testing assessment or evaluation:

- c. Consideration, or recognition of potential or actual defects, reporting, record-hearing and information management, (e.g., complaints, field reports, warranty information, part sales), analysis, olding, or fivenity, or
- d. Communication to, from or intended for zone representatives, floats, dealers, or other field leastlens, including but not limited to people who have the capacity to obtain information from dealers.
- Allered defects: The energy-absorbing loop in the driver's safety beit buckle assembly
 may deploy during reliever crasher and increase the right of partial or full ejection of the
 encurrent.
- Document: "Document(s)" is used in the broadest sense of the word and shall been all colsinal written, printed, typed, recorded, or graphic matter whatecover, however, penduoed or reproduced, of every kind, nature, and description, and all non-identical copies of both sides thereof, including, but not limited to, papers, letters, memorands, correspondence, communications, electronic sual (e-mail) messages (existing in herd comy and/or in electronic storage), flates, mailgrams, telegrams, oables, taley, no actes, annotations, working papers, drafts, minutes, records, sadio and vides recording data, databases, other information bases, summaries, charte, tables, graphics, other vintal displaye, photographic statements, interviews, opinious, expects, national solid studies, analyses, evaluations, interpretations, contracts, agreements, just bulletine, potione, aumoracements, instructions, biospriate, drawings, as builts, changes, manuals, publications, work adjection, journals, statistical data, data, portable and computer calendare, appointment backs, distinct, travel reports, lists, sabulations. computer printers. Otta propositing program libraries, data processing inputs and elitauts. microfilms, extendiables, statements for services, resolutions, financial statements, governmental records, business records, persontial records, while believe, placely discovery in any form, affidavits, motions, responses to discovery, all transcrip administrative filings and all mechanical, magnetic, photographic and electronic seconds or recordings of any kind, including any storage madia associated with congruency, including, but not limited to, information on hard drives, floppy disks, becken takes, and sip drives, electronic communications, including but not limited to, the interest and shall include any drafts or revisions pertaining to any of the foregoing, all other things similar to any of the foreholder, however demonstrated by GM, any other data compilations from

which information can be obtained, translated if necessary, into a usable form and any other documents. For purposes of this request, any document which contains any acts. comment addition, deletion, insertion, emiotation, or otherwise commises a rigo-learning copy of another document shall be treated as a separate document subject to madustian. In all cases where original and any non-identical copies are not available. "document's)"also means any identical copies of the original and all non-identical copies thereof. Any dominant, record, graph, chart, film or photograph originally produced in color must be provided in color. Furnish all decrements whether verified by the magnificaturer or not. If a document is not in the English language, provide both the original document and an Boglish translation of the document.

Other Terms: To the extent that they are used in these information requests, the terms "claim," "consumer complaint," "dauler field report," "field report," "fire," will," "made," "model," 'model year," "notice," "property damage," "pr whether used in singular or in plural form, have the same mounting as found in 10 CFR

In order for my staff to evaluate the alleged defect, certain information is required. Principal to 49 U.S.C. § 30166, please provide numbered responses to the following information requests. his other ar (2) of has proviously provided a document to ODI. GM may produce it again or identify the document, the appument submission to ODI in which it was included end the precise location in that retainissing where the document is located. When documents are produced, the documents shall be produced in an identified, organized tranner that corresponds with the argumenton of this information request letter (including all individual requests and subparts). When documents are produced and the documents would not, standing alone, he solfexplanatory, the production of documents shall be supplemented stat accompanied by continuing.

Places repost the applicable request varietim above each response. After GM's response to each request, identify the source of the information and indicate the last date the information was mitured.

- f. State, by model, model year and scatting position(s), the number of subject vehicles, (the has manufactured for sale or lesse in the United States. In addition, state, by model, a and setting position(s) the market of other vehicles containing an energy-shearbha management system (IM has marnifactured for sale or lease in the United States. M for each subject vehicle memufactured to date by GM, state the following:
 - Vehicle identification stantes (VID):
 - b. Malac.
 - o. Meddel
 - d. Model Years
 - s. Date of respirate cours:
 - f. Date warranty coverage commenced; and

g. The State in the United States where the vehicle was originally sold or least diverdelivered for sale or lease).

Provide the table in Microsoft Access 2000, or a compatible format, entitled "PRODUCTION DATA." See Busingure 1, Data Collection Disc, for a pre-formatised table that provides fluther details regarding this submission.

- 2. State the number of each of the following, received by GM, or of which GM is appreciae aware, which relate to, or may relate to, the alleged defect in the subject vehicles:
 - Consumer complaints, including those from fleet operators;

b. Field reports, including dealer field reports;

o. Reports involving a creat, injury, or fatality, based on claims against the magnificance. havelving a death or injury, methods received by the menufacturer alleging or proving that a death or injury was caused by a possible defect in a subject vehicle, property damage claims, communer complaints, or field reports;

d. Property demans plainer

- e. Third-party arbitration proceedings where GM is or was a party to the arbitration; and
- 2. Lawsuits, both pending and closed, in which GM is or was a defendant or codefendant.

For subparts "a" through "di" state the total number of each time (s.g., occasions obsertions finis reports, etc.) separately. Multiple incidents involving the seems reliable one to to counsed separately. Multiple reports of the same insident are also to be expensed sugge (i.d., a consumer complaint and a field report involving the same insident in which a great contrate on the countries as a stronger blaff a grouper description of or or between

In addition, for items "c" through "C" provide a summary description of the alleged problem and densel and contributing factors and Chi's casesment of the problem, with a partract of the significant underlying fresh and exidence. For them I said a Montily the parties to the action, so well as the caption, count, docket number, and date on which the completes or other document initiating the action was filled.

3. Separately, for each item (complaint, report, claim, notice, or making) your response to Request No. 2, state the following information:

CAC's flip mumber or other identifier used:

it. The category of the item, as identified in Request No. 2 (i.e., constrmer complis report, etc.);

a. Vehicle owner or floor name (and floor contact person), address, and selected

Vehicle's VIN:

- Vahicle's make, model and model years
- L Values a milesee at time of predent

beident dete:

g. Decident date; h. Report or alalm date;

Whiten a crash is alleged:

Whether property demages in alliged:

- k. Number of alloged injuries, if any; and
- I. Number of alleged fatalities, if any,

Provide this information in Microsoft Access 2000, or a competible formet, entitled "REQUEST NUMBER TWO DATA." See Haclosure 1, Data Collection Disc, for a proformatted table that provides further details recording this submission.

- Produce copies of all documents related to each item within the scope of Regnert No. 2. Organiza the documents separately by category (i.e., consumer completents, field species, etc.) and describe the method GM used for organizing the documents.
- State, by model and model year, a total count for all of the following estegories of claims. collectively, that have been paid by GM to date that relate to, or may relate to, the latter defect in the subject vehicles: warranty plains; extended warranty claims; claims for good will services that were provided field some or similar adjustments and reinburgenesis; and warranty claims or repairs made in accordance with a procedure specified in a technical service bulletie or exetoruer substactice compaign.

Separately, for each such claim, state the following information:

- GM'4 clears number.
- Vehicle owner or fleet name (and fleet contact parties) and telephone attribut;
- a VIII
- d. Rupeir dete:
- Venicio milesco et timo of repair:
- 1. Repairing dealer's or facility's name, telephone crumber, city and state or Ell' coule.
- 2. Labor operation number:
- h. Problem sode:
- . Repleatment part number(s) and description(s):
- Consonin stated by contomer, and
- Comment, if any, by declar minister estating to slaim and/or regal.

Provide this information in Microsoft Access 2000, or a comment of formatic "WARRANTY DATA." See Enclosure I. Data Collegion Disc. See Assessed that provides further details regarding this submission.

6. Describe in detail the search cutteris used by CM to identify the claims identified in tree to Request No. 5, including the labor operations, problem codes, part members and starparticult presentations used. Provide a list of all labor operations, labor operation described problem codes, and problem code descriptions applicable to the sileged defect to the car will dies. Since by make and model year, the terms of the new vehicle wastenty coverage offered by GM on the subject vehicles (i.e., the number of months and mileage for which developed is perivided and the vehicle systems that are ocvered). Describe any entended warranty coverage option(s) that GM offered for the subject vehicles and state by orthon. model, and model year, the number of vehicles that are covered under each such extr WESTERN.

- 7. Produce copies of all service, warranty, and other documents that relate to, or made selete to. the alleged defect in the subject vehicles, that Gld has issued to any dealers, regional or name. offices, field offices, fleet purchasurs, or other entitles. This includes, but is not lighted to, bulletins, advisories, informational documents, training documents, or other descri communications, with the exception of standard shop manuals. Also intuited the lat oncy of any communication that manufacturer's short name is planning to issue within the nect 120 days.
- Describe all assessments, analysis, tests, but results, studies, surveys, simulations, investigations, incurries and/or evaluations (collectively, "actions") that suices to, by many relate to, the alloged deflect in the subject vehicles that have been conducted, are be conducted, are planned, or are being planted by, or the, GM (including those purfuseed on S/T wility vehicles in support of recall NHTSA No. 05V-117). For each such sortion, provide: the following information:
 - a. Action title or identifies.
 - b. The actual or planted start date:
 - c. The actual or expected end date;
 - d. Brief summary of the subject and objective of the action;
 - e. Baginessing group(s)/supplier(s) respectible for designing and for emissions in
 - A brief symmetry of the findings and/or conclusions resulting from the station.

For each action identified, provide copies of all decomments related to the section, regionless. whether the document are in interior, draft, or final form. Organize the distance chronologically by action.

- Describe all modifications or charges made by, or on behalf of, GM in the design, t composition, manufacture, quality control, jupply, or installation of the subject qua from the start of production to date, which feliate to, or may relate to, the effected definit in the subject vehicles. For each such modification or charge, provide the following tasts
 - a. The data or expressionate date on which the modification or change was to vehicle production:
 - b. A detailed description of the modification or change,
 - v. The reason(s) for the modification of chimae:
 - d. The part regerbors (service and engineering) of the original commentation

 - c. The part number (service and engineering) of the modified compensat;

 2. Whether the original annociated component was withdrawn from prediction a and if so, when
 - When the modified component was much available as a service component; and ...
 - Whether the modified component can be interchanged with earlier production. octorocción.

Also, provide the above information for any modification or change that OM is always of which may be incorporated into vehicle production within the next 120 days.

Produce two of each of the following:

- a. Exemplar samples of each design version (for each senting position) of the subject component;
- Exempler samples of the design version used in the driver seating position in the vehicles associated with NHTSA Recall No. 03V-117;

c. Field return samples of the subject component exhibiting the deployed mode:

- d. Any kits that have been released, or developed, by GM for use in service supeirs to the subject component/assembly which relate, or may relate, to the alleged deflect in the subject vehicles; and
- c. Any kits that have been released, or developed, by GM for use in survice repairs to the vehicles associated with NHTSA Recall No. 03V-117.
- 11. State the number of each of the following that GM has gold that may be used in the subject vehicles by component name, part number (both service and engineering/production), model and model year of the vehicle in which it is used and month/year of sale (including the out-off date for sales, if applicable):

4. Subject compenent; and

b. Any lits that have been released, or developed, by GM for use in service repairs to the subject component/seasonbly.

For each component part member, provide the supplier's name, address, and appropriate paint of contact (name, title, and telephone number) Also identify by make, model and madel year, any other vehicles of which GM is aware that contain the identical component, whether installed in production or in service, and other the applicable dates of production or having that we

12. Farmish Gld's assessment of the alleged defect in the subject vehicle, including

- s. The outsel or combinatory factor(s);
- b. The follow membersion();
- a. The fullure moderate
- d. The mulfication to other seating position(s);
- 6. The applicability to defect found in the S/T utility vehicles (03 V-137)

f. The risk to meter vehicle safety that it posce;

- g. What warnings, if any, the operator and the other persons both incide and countie the vehicle would have that the alleged deflect was occurring or subject compensate and resulting other and
- b. The reports included with this inquiry,

This letter is being sent to GM pursuant to 49 U.S.C. § 30166, which sutherizes NECLEGA conduct any investigation that may be necessary to enforce Chapter 301 of Title 49 said request reports and the production of things. It constitutes a new request for informality. Chips. failure to respond promptly and fully to this letter could subject GM to civil penalties, desirant to 49 U.S.C. § 30165 or lead to an action for injunctive relief pursuant to 49 U.S.C. § 30268. (Other remedies and smotters are available as well.) Please note that remains on the Translation under 49 U.S.C. § 30165 have increased at a result of the procent ensormant of the Translationian Recall Enhancement, Accountability, and Documentation (TREAD) Act, Public Law 301. 30164 (signed November 1, 2000). Section 5(a) of the TREAD Act, codified at 49 U.S.C. § 30165(b), provides for civil penalties of up to \$5,000 per day, with a maximum of \$15 of the for a related series of violations, for failing or refusing to perform an act sequired metallics for a related series of violations, for failing or refusing to perform an act sequired metallics.

If Gld connect respond to any specific request or subpart(s) thereof, plaints state for a large state of subsection at subsection at the section of the section of subsection at the section of the section of the section at the section of the section of the section of the persons of the section of the secti

Char's response to this letter, in deplicate, together with a copy of my challenting must be submitted to this office by April 16, 2004. Please rates to 2005 1512 in the total letter. If Gld finds that it is mable to provide all of the information assembled that ellowed the information to the ellowed the information to the ellowed the information to the ellowed the ellowed the ellowed the response too date. If Gld is mable to provide all of the ellowed the sequence by the eligible sequence by the eligible description of the ellowed the ellowed the ellowed the ellowed that the ellowed the

William decreased a special commercial material within the commercial materials with the statement of 18 U.S.C. § 1986; Chair and the commercials that one the conduct of the commercials that one the conduct of the commercials with the CRR Part 512, as amounted (65 Part Ross, Allessa, Allessa, Chair and Chair an

P. 18/18

If you have any technical questions concerning this matter, please call Peter C. Ong of my staff at (202) 366-0583.

Sincerely,

Thomas Z. Coupur, Chief Vehicle Integrity Division Office of Deficie Investigation

Backettre 1, one CD ROM sitled Data Collection Disc contributes:

- 2 VOQc m of 01/20/2004 (100/0999 and 853 159)
- · "PRODUCTION DATA" #6
- . "REQUEST NUMBER TWO DATE" file
- "WARRANTY DATE" file