

From: Lee, Michael <NHTSA> [REDACTED]
Sent: Wednesday, December 19, 2007 2:24 PM
To: Green, Donovan <NHTSA> [REDACTED]; Hillman, Daniel <NHTSA> [REDACTED]; Ong, Peter <NHTSA> [REDACTED]
Cc: Demeter, Kathleen <NHTSA> [REDACTED]; Cooper, Thomas <NHTSA> [REDACTED]
Subject RE: SCI Reports to ODI
t:
Attach SCI Cases for ODI.XLS
:

Kathy,

Attached is a spreadsheet of the 33 SCI cases with new information added in regarding ODI investigations and ODI participation in the SCI inspections. Overall, we conducted 8 IEs, 2 PEs and 2 EAs that relate to SCI cases (the PEs and EAs were on the same subject/vehicles). ODI participated in 4 SCI inspections (3 of the 4 SCI reports indicate that ODI staff was present at the inspection). Three other SCI cases were dropped.

As you already know and just for your information, we not only reviewed the SCI case reports when we got them but we screened each issue internally, and sometimes, we contacted the manufacturer by telephone for technical explanation regarding the operation of the subject air bag system and for other information, and we did that with or without an IE. Some of the reasons for not opening an IE or PE were:

- Crashes were below or near threshold for non-deployment issues.
- Incidents were isolated cases (e.g., single report of above-threshold non-deployment).
- No unreasonable safety risk (e.g., asymmetrical deployment occurring in only moderate severity crashes).

I printed the opening and closing resumes for the 2 PEs and 2 EAs as well as the investigation documents that reference the SCI cases (memo to public file and IR letter to manufacturer). I will bring you these to you.

Please let me know if you have any questions.

Mike

From: Lee, Michael <NHTSA>
Sent: Wednesday, December 19, 2007 10:58 AM
To: Green, Donovan <NHTSA>; Hillman, Daniel <NHTSA>; Ong, Peter <NHTSA>
Cc: Demeter, Kathleen <NHTSA>
Subject: RE: SCI Reports to ODI

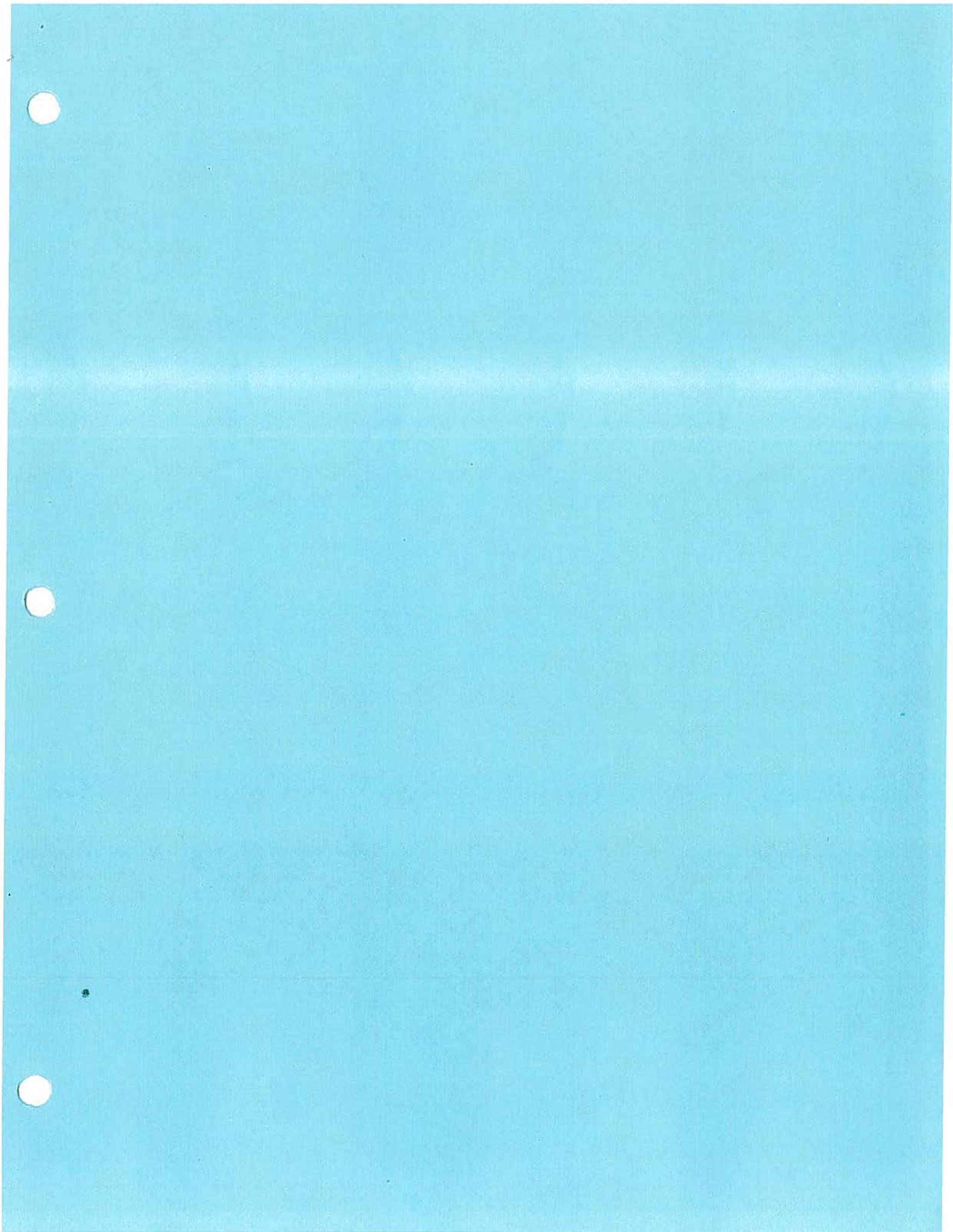
Kathy,

Please send me the spreadsheet with the SCI case numbers.

.Peter and I will add to the spreadsheet the ODI investigation numbers (IE, PE, EA) related to the SCI cases along with notes on which SCI cases ODI participated in, which cases were dropped, etc.

Donovan and Danny will provide the ODI review process of potential defect cases sent by SCI (hardcopies, electronic files).

Mike



CASES IN SUPPORT OF ODI RESEARCH

CRASH						
Line #	Case #	Type of Crash	Year/Make /Model	Longitudinal Delta V (kmph)	ODI Investigation	ODI Participation In SCI Inspection
1	2001-12-116A	Non Deployment	2000 GMC S15/T15/Sonoma	-65		
2	CA00014	Asymmetrical Deployment	2000 Honda Accord	-16	IE00-025	Yes (M. Lee, P. Ong)
3	CA00028	Asymmetrical Deployment	1996 Dodge Caravan	-50	IE00-056, PE00-032, EA01-007	
4	CA00037	Non Deployment	2001 Cadillac DeVille	-79	IE03-021	
5	CA01-025	Non Deployment	2000 Ford Explorer/Bronco	-67		
6	CA01051	Non Deployment	1999 Kia Sephia	-53		
7	CA02001	Non Deployment	2001 Kia Rio	-58	IE02-018, PE02-022, EA02-009	
8	CA03046	Non Deployment	2001 Hyundai Elentra	-82	IE03-066	
9	CA03057	Non Deployment	1995 Pontiac Gran Prix (FWD)	-65		
10	CA04024	Non Deployment	2003 Ford Crown Victoria	-13		
11	CA05060	Non Deployment	2004 Ford F-Series Pickup	-55		
12	CA96004	Non Deployment	1995 Chevrolet C, K, R V-Series Pickup	9 Total Delta V		
13	CA97026	Non Deployment	1995 Jeep / Kaiser-Jeep Cherokee (1984 ON)	-17		
14	CA97049	Asymmetrical Deployment	1993 Mercury Sable	-81		
15	CA98011	Asymmetrical Deployment	1996 Ford Taurus	-17		
16	CA98037	Non Deployment	1995 Ford E-Series Vans	-46		
17	CA98060	Non Deployment	1988 Honda Civic/CRX/Del Sol	-60	IE98-103	Yes (M. Lee, P. Kivett)
18	CA98062	Non Deployment	1996 Ford Crown Victoria	999		Yes (M. Lee)
19	CA99014	Asymmetrical - Case Dropped No Cooperation	1998 BMW 328i	999		
20	CA99028	Non Deployment	1999 Chevrolet S10/T10	-56		
21	CA99006	Asymmetrical Deployment	1997 Buick Special/Skytark	-30		
22	CA99027	Asymmetrical Deployment - Case Dropped No Cooperation	1995 Ford Taurus	999		
23	CA99042	Non Deployment	1999 GMC C, K, R V-Series Pickup	999		
24	DS01016	Non Deployment	1998 Chevrolet C, K, R V-Series Pickup	12		
25	DS03022	Non Deployment	2002 Honda Civic/CRX/Del Sol	-84		
26	DS96001	Non Deployment	1991 Lexus LS400	-10		
27	DS97016	Non Deployment	1995 Grand Cherokee Limited	-24		
28	IN00012	Non Deployment	1999 Honda Civic/CRX/Del Sol	-15		
29	IN06033	Non Deployment	2005 Chevrolet Cobalt	88 (BES)	IE07-080	Yes (D. Hillman)
30	IN97016	Non Deployment	1995 Chevrolet Astro Van	999	IE99-055	
31	IN97052	Non Deployment	1995 Chevrolet C, K, R V-Series Pickup	-18		
32	IN99001	Non Deployment - Case Dropped 9.1 mph Longitudinal Delta-V	1994 BMW 325i	-15		
33	IN99074	Non Deployment	1995 Chevrolet Astro Van	999		

From: Ong, Peter <NHTSA> [REDACTED]
[REDACTED]
Sent: Friday, December 21, 2007 5:18 PM
To: Demeter, Kathleen <NHTSA> [REDACTED]
[REDACTED]
Subject: RE: Completed SCI table with ODI analysis

K, when the full ODI force is back, we can do anything giving the time/resources.

Peter C. Ong
Safety Defects Engineer
NHTSA [REDACTED]
[REDACTED]

Original Message

From: Demeter, Kathleen <NHTSA>
Sent: Fri 12/21/2007 4:59 PM
To: Ong, Peter <NHTSA>; Lee, Michael <NHTSA>; Green, Donovan <NHTSA>
Cc: Cooper, Thomas <NHTSA>; Magno, Gregory <NHTSA>
Subject: RE: Completed SCI table with ODI analysis

Good point about exposure. I guess, however, for the three SCI cases that had ODI investigations, the exposure period should be from built date to date when investigation was opened.

No specific timing yet. There is rumor of a Hill hearing, but no date or other specifics have been identified. So, no need to rush before the end of the year. We may be beating a dead horse, but Nicole may need ammunition for a hearing. We can discuss first week in January.

By the way, Rae is saying KC Star will run article this weekend, and he predicts the story will be very negative.

Have a good holiday everyone.

Original Message

From: Ong, Peter <NHTSA>
Sent: Friday, December 21, 2007 4:39 PM
To: Demeter, Kathleen <NHTSA>; Lee, Michael <NHTSA>; Green, Donovan <NHTSA>
Cc: Cooper, Thomas <NHTSA>; Magno, Gregory <NHTSA>
Subject: RE: Completed SCI table with ODI analysis

When you take into account that Air Bag Non Deployments are a time exposure based event, then considering the rates by the amount of time the vehicle has been out in service would provide better "worst case vehicles" condition. I have modified the "Completed SCI table with ODI Analysis" to include the exposure rate of these vehicles based on end of data year to be 1995 (see attached file). All the E Rates are now down below 2.0 VOQs (ABND/Inj/>25)per 100k vehs. The Rio/Spectra/Sephia/Civic have E Rates of 1.8/1.6/1.2/1.2 per 100k. These E Rates are comparable to the E Rates from our recent Cobalt peer vehicle study for Non Deployments (see attached file). We can expand from that study to include more MMYs, but I believe that these E Rate are typical of these groups of small/compact vehicles. Note that we have not even attempted to obtain supporting data like PARs, photos, damage/injury estimates, interviews etc...which will further reduce the "valid" counts/rates. I recommend a modify/simplify item 1, do item 2 (if resources avail. in the time constraint needed), and consider forgoing item 3. I think that we are beating a "dead horse."

PS what is the time constraint for completion?...end of year would be tight as most if not all of us will be out...

Peter C. Ong
Sefety Defects Engineer
NHTSA [REDACTED]
[REDACTED]

Original Message

From: Demeter, Kathleen <NHTSA>
Sent: Fri 12/21/2007 3:25 PM
To: Lee, Michael <NHTSA>; Ong, Peter <NHTSA>; Green, Donovan <NHTSA>
Cc: Cooper, Thomas <NHTSA>; Magno, Gregory <NHTSA>
Subject: RE: Completed SCI table with ODI analysis

Thanks the Kia Sephia is the only one where there wasn't an IE or investigation that seems to stand out.

Greg could you have someone look into that one further?

From: Lee, Michael <NHTSA>
Sent: Friday, December 21, 2007 3:02 PM
To: Demeter, Kathleen <NHTSA>; Ong, Peter <NHTSA>; Green, Donovan <NHTSA>
Cc: Cooper, Thomas <NHTSA>
Subject: Completed SCI table with ODI analysis

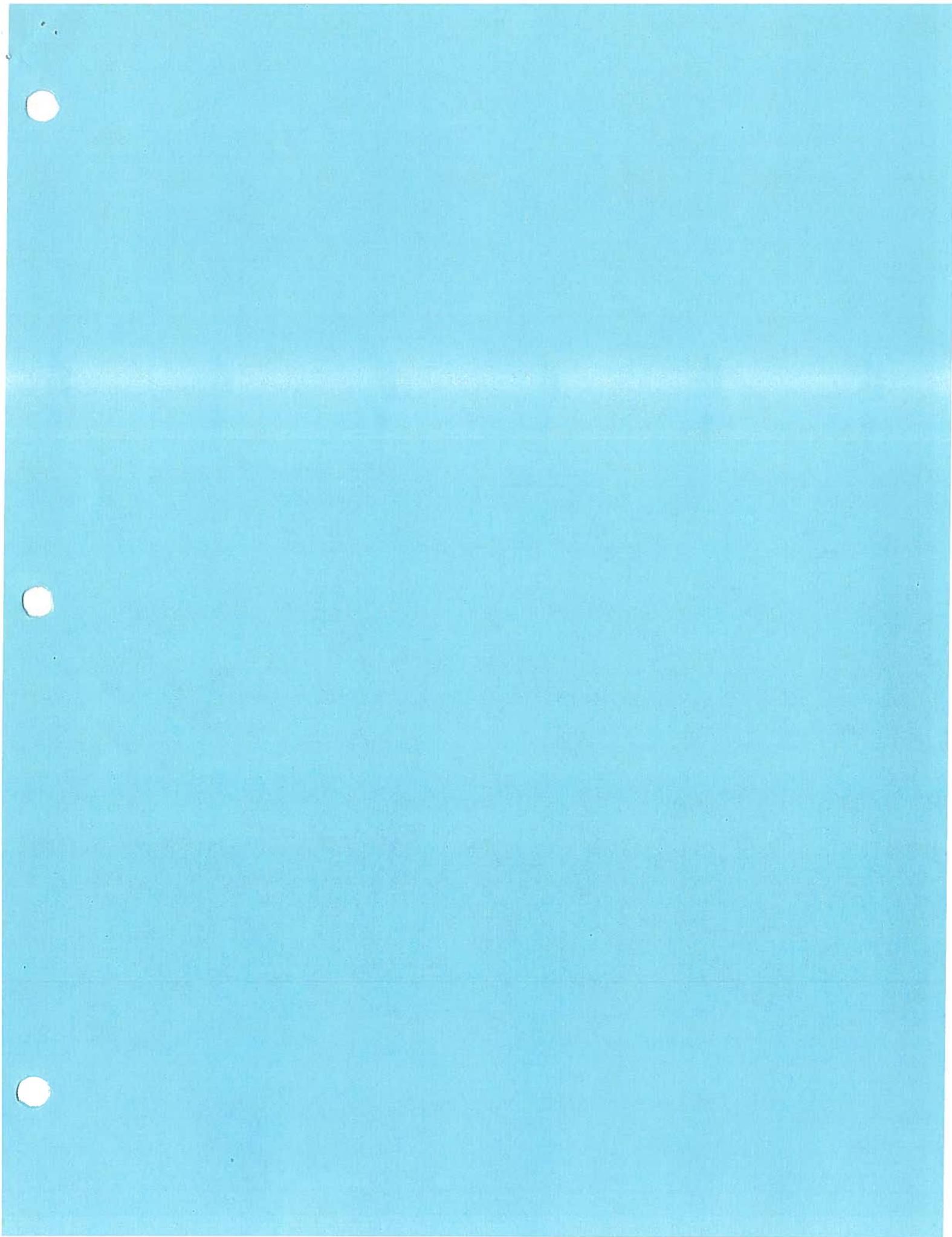
Attached is the completed SCI table with ODI analysis. I added the numbers (VOQ complaint rates) for the 6 vehicles that were not filled in before. Of the 6 vehicles, only the 1999 Kia Sephia stands out from the rest (complaint rate frontal, no deploy, injury, speed > 25 mph 6.6 per 100K vehicles). The Sephia is a similar vintage small car like the 2001 Kia Rio, which ODI investigated, and both vehicles were manufactured by the same company.

Based on my discussion with Kathy yesterday, we should do the following additional analyses:

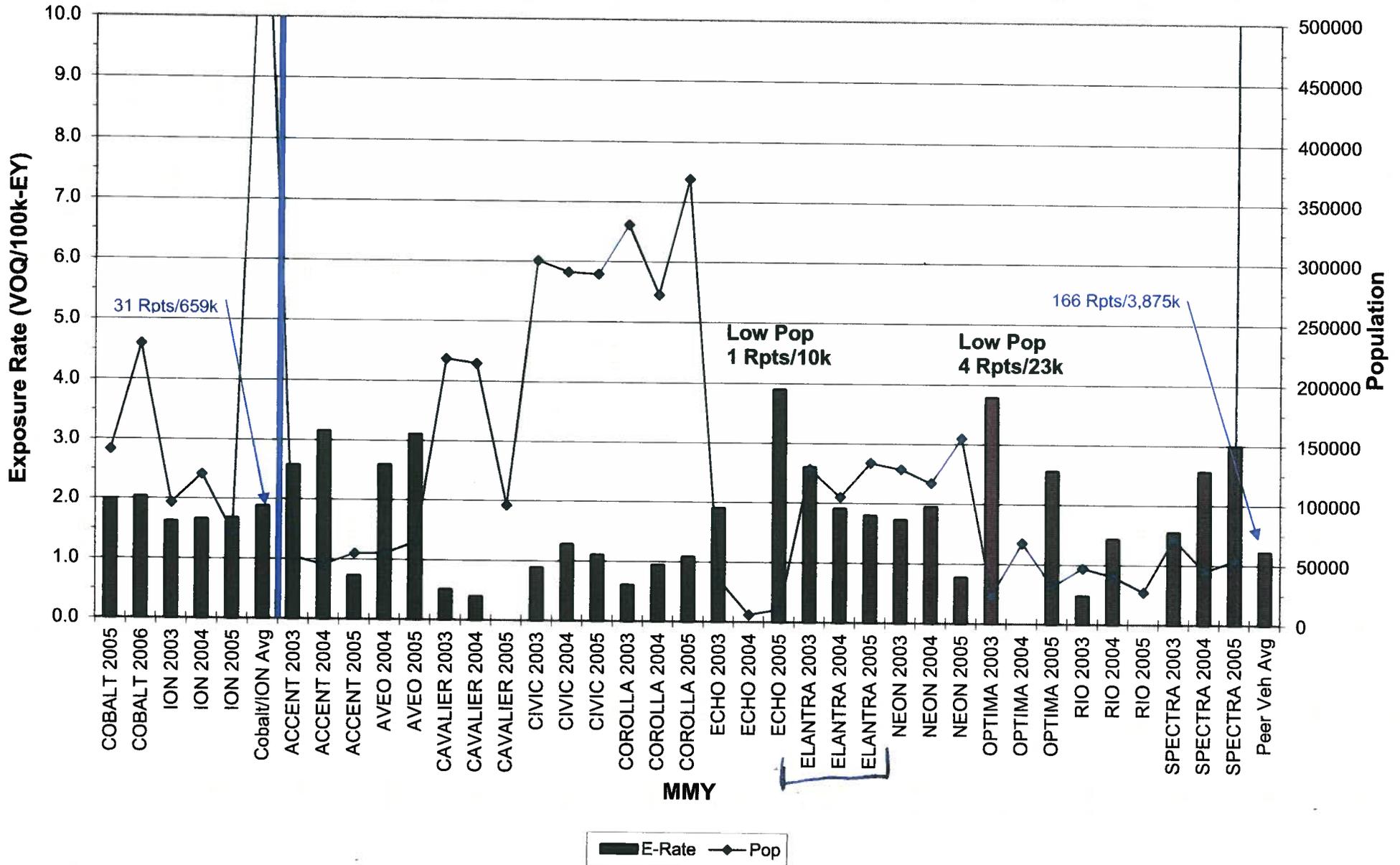
- * VOQ complaint analysis, as we did for the SCI vehicles, of some other/peer vehicles that are not on the SCI list.
- * Review of EWR Death & Injury reports of any non deployment reports involving SCI and other vehicles.
- * Identification and review of VOQs with fatalities and serious injuries, if any (most SCI cases involve fatalities or serious injuries).

I will be off until Jan. 2nd. Peter/Donovan Please start working on the above items and see Kathy about when we should finish the additional work. Thanks.

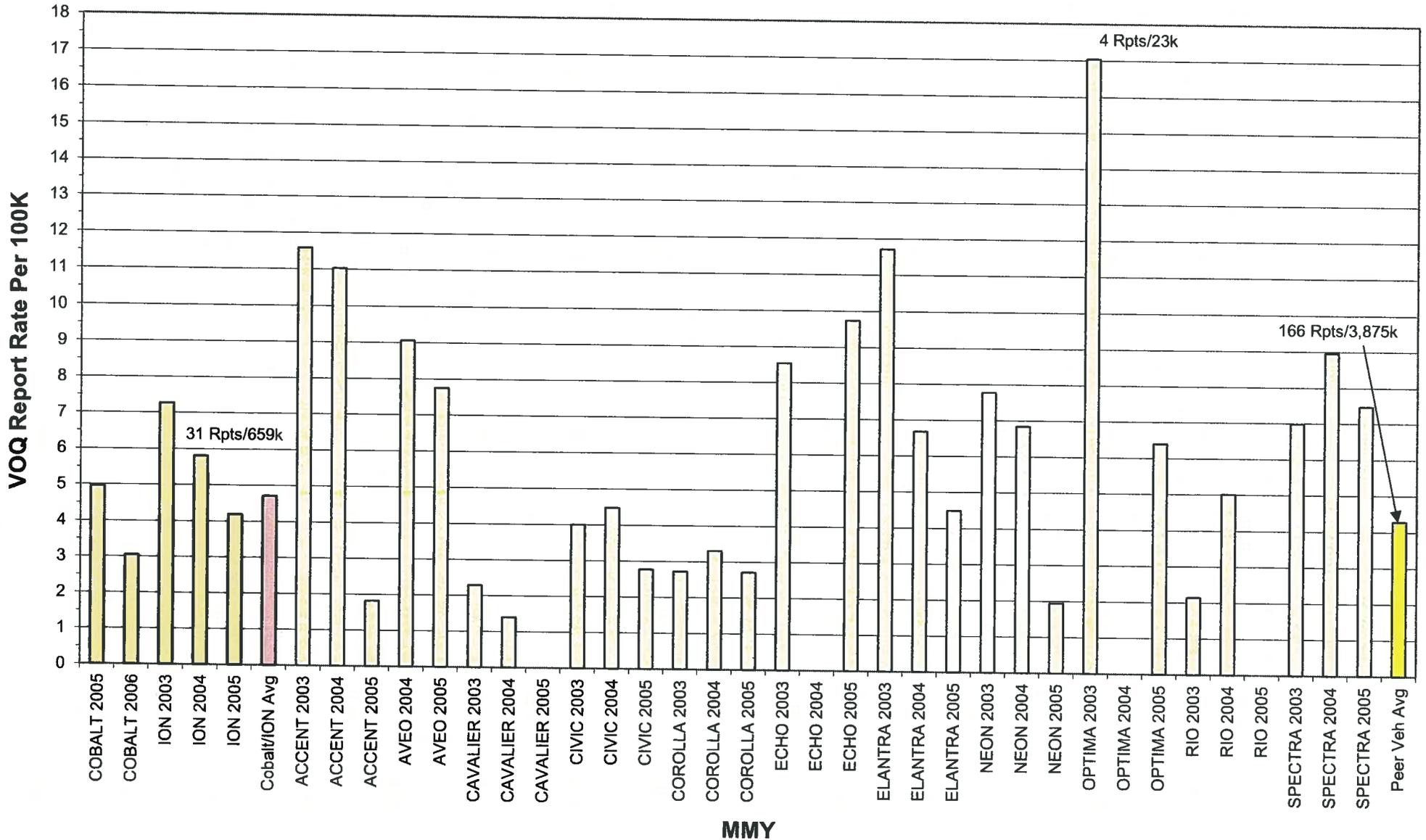
Mike



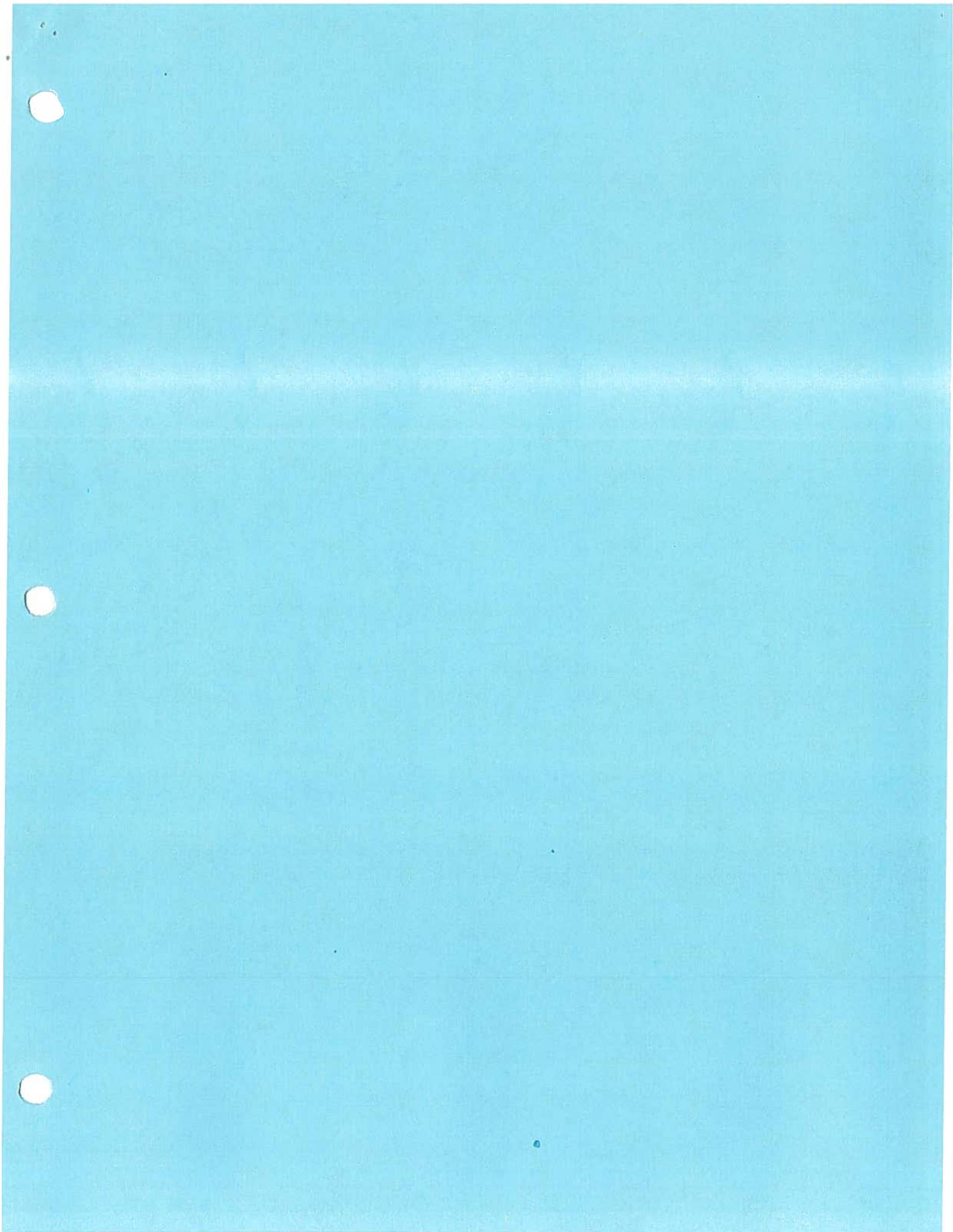
Cobalt & Peer Veh ABND Inj-Crash Rate



Cobalt and Peer Vehicles ABND Injury-Crash Incident Rates



ID	MMY	VOQs	Pop	Rate/100k	EY	E-Rate
1	COBALT 2005	7	140975	5.0	2.5	2.0
2	COBALT 2006	7	229576	3.0	1.5	2.0
3	ION 2003	7	96323	7.3	4.5	1.6
4	ION 2004	7	120568	5.8	3.5	1.7
5	ION 2005	3	71572	4.2	2.5	1.7
	Cobalt/ION Avg	31	659014	4.7	2.5	1.9
6	ACCENT 2003	6	51814	11.6	4.5	2.6
7	ACCENT 2004	5	45340	11.0	3.5	3.2
8	ACCENT 2005	1	54912	1.8	2.5	0.7
9	AVEO 2004	5	55201	9.1	3.5	2.6
10	AVEO 2005	5	64480	7.8	2.5	3.1
11	CAVALIER 2003	5	218393	2.3	4.5	0.5
12	CAVALIER 2004	3	214541	1.4	3.5	0.4
13	CAVALIER 2005	0	95838	0.0	2.5	0.0
14	CIVIC 2003	12	300299	4.0	4.5	0.9
15	CIVIC 2004	13	290700	4.5	3.5	1.3
16	CIVIC 2005	8	289057	2.8	2.5	1.1
17	COROLLA 2003	9	330420	2.7	4.5	0.6
18	COROLLA 2004	9	272301	3.3	3.5	0.9
19	COROLLA 2005	10	368744	2.7	2.5	1.1
20	ECHO 2003	3	35112	8.5	4.5	1.9
21	ECHO 2004	0	5697	0.0	3.5	0.0
22	ECHO 2005	1	10262	9.7	2.5	3.9
23	ELANTRA 2003	15	128096	11.7	4.5	2.6
24	ELANTRA 2004	7	104765	6.7	3.5	1.9
25	ELANTRA 2005	6	133722	4.5	2.5	1.8
26	NEON 2003	10	128533	7.8	4.5	1.7
27	NEON 2004	8	117037	6.8	3.5	2.0
28	NEON 2005	3	154759	1.9	2.5	0.8
29	OPTIMA 2003	4	23475	17.0	4.5	3.8
30	OPTIMA 2004	0	67232	0.0	3.5	0.0
31	OPTIMA 2005	2	31276	6.4	2.5	2.6
32	RIO 2003	1	46739	2.1	4.5	0.5
33	RIO 2004	2	39937	5.0	3.5	1.4
34	RIO 2005	0	26968	0.0	2.5	0.0
35	SPECTRA 2003	5	71576	7.0	4.5	1.6
36	SPECTRA 2004	4	44640	9.0	3.5	2.6
37	SPECTRA 2005	4	53514	7.5	2.5	3.0
	Peer Veh Avg	166	3875380	4.3	3.5	1.2



CASES IN SUPPLY OF ODI RESEARCH

CRASH																1	2	3	4
Line #	Case #	Type of Crash	Year/Make /Model	Longitudi- nal Delta V (kmph)	ODI Investigati- on	ODI Participati- on in SCI Inspection	Recall	Vehicle Population	Total # of VOQs Under Air Bag Component	Comp Rate - All Crashes Under AB Comp.	Comp Rate - Frontal and No Deploy	Comp Rate - Frontal, ND, Injury	Comp Rate - Frontal, ND, Injury, Speed>25 mph	Exposure Year to 1995	Comp E-Rate, ND< Injury, Speed>25mph	1	2	3	4
1	2001-12-CA000	Non Deployment	2000 GMC S15/T15/Sonoma	-65				60,145	7	11.6	11.6	1.7	1.7	4.75	0.4	7	7	1	1
2	CA00014	Asymmetrical Deployment	2000 Honda Accord	-16	IE00-025	Yes (M. Lee, P.)		430,542	23	5.3	2.1	0.7	0.2	4.75	0.0	23	9	3	1
3	CA00028	Asymmetrical Deployment	1996 Dodge Caravan	-50	IE00-056, PE00-032, EA01-007		02V-293 (influenced by EA01-	132,793	21	15.8	6.8	3.0	2.3	8.75	0.3	21	9	4	3
4	CA00037	Non Deployment	2001 Cadillac DeVille	-79	IE03-021			90,140	4	4.4	2.2	0.0	0.0	3.75	0.0	4	2	0	0
5	CA01-025	Non Deployment	2000 Ford Explorer/Bronco	-67				388,383	22	5.7	5.1	2.1	1.5	4.75	0.3	22	20	8	6
6	CA01051	Non Deployment	1999 Kia Sephia	-53				90,337	27	29.9	15.5	12.2	6.6	5.75	1.2	27	14	11	6
7	CA02001	Non Deployment	2001 Kia Rio	-58	IE02-018, PE02-022			59,253	13	21.9	20.3	6.8	6.8	3.75	1.8	13	12	4	4
9	CA03057	Non Deployment	1995 Pontiac Grand Prix (FWD)	-65				131,829	7	5.3	1.5	0.8	0.8	9.75	0.1	7	2	1	1
13	CA97026	Non Deployment	1995 Jeep / Kaiser- Jeep Cherokee	-17				123,878	7	5.7	4.0	0.8	0.8	9.75	0.1	7	5	1	1
14	CA97049	Asymmetrical Deployment	1993 Mercury Sable	-81				93,515	9	9.6	2.1	2.1	2.1	11.75	0.2	9	2	2	2
15	CA98011	Asymmetrical Deployment	1996 Ford Taurus	-17				396,665	25	6.3	6.3	4.5	2.0	8.75	0.2	25	25	18	8
16	CA98037	Non Deployment	1995 Ford E-Series Vans	-46				179,289	1	0.6	0.6	0.0	0.0	9.75	0.0	1	1	0	0
17	CA98060	Non Deployment	1998 Honda Civic/CRX/Del Sol	-60	IE98-103	Yes (M. Lee, P.)		367,544	57	15.5	10.3	1.9	0.8	6.75	0.1	57	38	7	3
18	CA98062	Non Deployment	1996 Ford Crown Victoria	999		Yes (M. Lee)		108,553	1	0.9	0.0	0.0	0.0	8.75	0.0	1	0	0	0
20	CA99028	Non Deployment	1995 Chevrolet S10/T10	-56				178,011	24	13.5	7.9	2.8	2.8	5.72	0.5	24	14	5	5
21	CA99006	Asymmetrical Deployment	1997 Buick Special/Skyark	-30				57,716	4	6.9	6.9	5.2	1.7	7.75	0.2	4	4	3	1
25	DS03022	Non Deployment	2002 Honda Civic/CRX/Del Sol	-84				330,218	33	10.0	7.3	4.8	3.3	2.75	1.2	33	24	16	11
28	IN00012	Non Deployment	1999 Honda Civic/CRX/Del Sol	-15				275,574	39	14.2	8.0	4.7	2.9	5.75	0.5	39	22	13	8
30	IN97016	Non Deployment	1995 Chevrolet Astro Van	999	IE99-055			157,367	11	7.0	5.1	1.3	0.6	9.75	0.1	11	8	2	1
31	IN97052	Non Deployment	1995 Chevrolet C, K, R V-Series	-18				750,882	17	2.3	1.7	0.9	0.7	9.75	0.1	17	13	7	5
33	IN99074	Non Deployment	1995 Chevrolet Astro Van	999	IE99-055			see above	see above	see above	see above	see above	see above						
	CA00020	Non-Deployment	2000 Ford Taurus	-69	(see IE02-102, PE03-002,			351,153	47	13.4	12.8	8.8	4.8	4.75	1.0	47	45	31	17
	2004-013-	Non-Deployment	1997 Chevrolet Blazer	-35				211,828	23	10.9	6.6	4.2	0.9	7.75	0.1	23	14	9	2
	2001-073-	Non-Deployment	1993 Ford Tempo	-57				50,000	2	4.0	2.0	0.0	0.0	11.75	0.0	2	1	0	0
	2005-074-	Asymmetrical Deployment	2003 Kia Spectra	-26				71,576	9	12.6	9.8	7.0	2.8	1.75	1.6	9	7	5	2
	2005-050-	Non-Deployment	1998 Chevrolet Cavalier	-46				270,115	18	6.7	2.6	2.2	1.5	6.75	0.2	18	7	6	4