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              SUPERIOR COURT OF NEW JERSEY
              LAW DIVISION - MORRIS COUNTY
              DOCKET NUMBER MRS-L-3575-08
3
    THOMAS KLINE, as
    Administrator Ad
                          DEPOSITION UPON
5
    Prosequendum of the :
                            ORAL EXAMINATION
    heirs at law of :
    SUSAN MORRIS KLINE,
                                   OF
    (deceased), as
    Administrator of the :
                           NEIL HANNEMANN
    Estate of SUSAN
8
    MORRIS KLINE, and
    THOMAS KLINE,
    individually,
10
          Plaintiffs,
11
       v.
12
    VICTORIA
    MORGAN-ALCALA,
13
    CARLOS ALCALA,
    NATALIE RAWLS,
14
    DAIMLER CHRYSLER
    CORPORATION a/k/a
15
    CHRYSLER
    CORPORATION, LOMAN
16
    AUTO GROUP, BUTLER
    CHRYSLER JEEP, INC.,
17
    JOHN DOES A through
    Z, (names being
18
    fictitious), ABC
    CORPORATIONS, 1
19
    through 100, (names .:
    being fictitious),
20
          Defendants.
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23
24
25
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1	TRANSCRIPT of the deposition of	1	INDEX
1		2	WITNESS DIRECT CROSS REDIRECT RECROSS
2	NEIL HANNEMANN, taken by and before REGINA A.	3	NEIL HANNEMANN
3	CRITCHLEY, a Certified Court Reporter and	4	BY MR. STOCKWELL 5 BY MS. DeFILIPPO 174
4	Notary Public of the State of New Jersey, at	5	BY MS. DEFILIPPO 174 BY MR. STOCKWELL 196
5	the offices of GRIECO, OATES & DeFILIPPO, LLC,		BY MS. DeFILIPPO 216
6	414 Eagle Rock Avenue, West Orange, New Jersey,	6	BY MR. STOCKWELL 221
7	on Friday, June 29, 2012, commencing at 10:15	7	BY MS. DeFILIPPO 221
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			o (rageb o co )
4	6		8
1	judge and jury.	1	Q Okay. As a general statement, is
2	Do you understand those	2	it improper to locate a fuel tank behind the
3	instructions?	3	rear axle in a passenger vehicle?
4	A Yes, I do.	4	A As a general statement, no.
5	Q When was the last time you gave a	5	Q Okay. I don't see any Chrysler
6	deposition?	6	cases on this list. Have you been involved in
7	A A deposition? A few months ago.	7	any Chrysler litigation cases at all in your
8	Let's say I'll just get out my list here.	8	career?
9	Q Oh, you do have a list with you?	9	A Yes, there are Chrysler cases on
10	A Yeah, I do have a list.	10	that list.
11	Q Okay. Great.	11	Q Oh, there are? Oh, DCC?
12	A I'll just last deposition was	12	A Yes.
13	January 25th	13	Q All right. Dick vs. DCC. Do you
14	Q Okay.	14	know what vehicle was involved in that case?
15	A of this year.	15	A That was a minivan. And there's a
16	Q Is that a list of	16	Winn vs well, Chrysler or maybe DCCA.
17	MS. DeFILIPPO: Before you give it	17	Q It says "Magna."
18	to him, can I see what	18	A Oh. That's correct. That case
19	MR. STOCKWELL: All right. We'll	19	became Magna as a supplier. Originally,
20	mark this as just mark this as D-1. If I	20	Chrysler was involved early on in that case.
21	type out your last name, it's going to make it	21	Q Okay. Is that a vehicle case?
22	harder for her the whole day.	22	A Yes, it was.
23	(Exhibit D-1, List of	23	Q What was the vehicle involved?
24	Trial/Deposition Testimony, is marked for	24	A That was a Chrysler Sebring.
25	identification.)	25	Q Okay. And what was the allegation
	7		9
1	Q And Mr. Hannemann, what we've	1	in that case?
2	marked as Exhibit D-1 is what you've just	2	A It was a post-collision fuel-fed
3	provided to me, which appears to be a list of	3	fire, rear-end collision.
4	deposition or trial testimony that you've given	4	Q And you testified for the plaintiff
5	in the last four years.	5	in that case?
6	A That's correct.	6	A Yes, I did.
7	Q Okay. Do you keep copies of the	7	Q And what was the sum and substance
8	transcripts for these testimonies?	8	of your opinion as to the Chrysler Sebring?
9	A Not	9	A My opinion in that case was the
10	MS. DeFILIPPO: Transcript wait	10	that particular Sebring had been supplied with
11	a minute. Are you talking about transcripts of	11	a steel fuel tank, and that was a kind of a
12	the trials? Because on that list are trials.	12	change in direction for Chrysler. Chrysler,
13	MR. STOCKWELL: Yeah.	13	for years, had been the leader in plastic tanks
14	Q No. I mean transcripts of your	14	and had many, many plastic tanks in their
15	trial testimony or your deposition testimony.	15	vehicles.
16	A I don't think I've ever gotten a	16	But in this particular situation,
17	trial transcript.	17	they used a steel tank. And it was my basic
18	Q Okay.	18	allegation was that the steel tank was
19	A Even when I've asked about it,	19	basically a copy of the plastic tank, and that
20	it's sometimes it's not even requested by	20	was a defective design because it just you
21	the attorneys. So I don't think I have any	21	can't necessarily go plastic to steel and copy
22	trial transcripts.	22	a design; although, you could go steel to
23	And the depositions, I have some	23	plastic. So that was the basic allegation.
1	and the depositions, I have some	120	plastic. So that was the basic anegation.
24 25	electronically. I may have all of them, but I	24	Q Okay. Was it the design of the

			1 (1 dgcb 10 co 10)
	10		12
1	material or both?	1	Q Sure.
2	A I would say the design, and design	2	MR. GILL: Can I object to form?
3	of a tank includes material selection.	3	When you say "represent," you mean appear as an
4	Q Sure. Where in the vehicle was	4	expert on behalf of? As opposed to
5	that tank located?	5	MR. STOCKWELL: Thank you for that,
6	A That tank was forward of the rear	6	Jim.
7	axle.	7	Q If I changed those questions to
8	Q Okay. Did you issue a report in	8	"appeared as an expert in," would your answers
9	that case?	9	still be the same?
10	A Yes, I did.	10	A I actually didn't appear in the
11	Q And you gave a deposition, I see,	11	Lockheed case.
12	on January 25th of 2012?	12	Q Okay.
13	A That's correct.	13	A So I guess maybe technically I
14	Q Okay. Is that case still going on?	14	wouldn't say that would be accurate.
15	A That case has settled.	15	Q Let me ask you a new question.
16	Q Okay. And I see the attorney is	16	Throughout your career, have you
17	Ben Hogan?	17	ever been offered as an expert witness on
18	A Yes, it is.	18	behalf of a manufacturer?
19		19	A No. Well, let me let me take
20	Q That's the plaintiff's attorney? A That's correct.	20	that back. When I worked for a manufacturer, I
21	Q Do you know who represented	21	was, I guess, a PMK on one Viper case. So as a
22	Chrysler in that case; if you remember?	22	manufacturer's employee, I was.
23	A Yeah, not right offhand, I don't.	23	Q Okay. I see you received your
24	Q Okay. What was the allegation in	24	bachelor's degree from General Motors
25	the Dick vs. Daimler Chrysler case?	25	Institute?
2.5	the Dick vs. Dannier Chrysler case:	25	Mismute:
	11		13
1	A That was a power steering fire.	1	A That's correct.
2	Under the hood, engine compartment.	2	Q What is the automotive option
3	Q What was the sum and substance of	3	curriculum?
4	your opinion in that case?	4	A The curriculum at GMI at the time,
5	A My opinion was power steering line	5	under their mechanical engineering curriculum,
6	failed, causing a power steering leak, which	6	they had six options, so specialities, and
7	then resulted in a fire.	7	automotive was one of those.
8	Q Okay. All right. We may come back	8	Q Okay. Do you know what other
9	to this a little later.	9	curriculum options there were?
10	In any of these cases on this list,	10	A I believe it was they had a
11	did you ever represent the vehicle	11	one with electrical focus, one with a materials
12	manufacturer?	12	focus, process, manufacturing. That's not six,
13	A On that list, no.	13	but I I'm not going to recall them all.
14	Q All right. Have you ever	14	It's a long time ago.
15	represented a vehicle manufacturer in	15	Q That's okay. We won't hold you to
16	litigation?	16	it.
17	A No, I have not in product	17	MS. DeFILIPPO: Could you read back
18	liability litigation, no.	18	that answer?
19	Q All right. In any sort of any	19	(Answer read.)
20	form of litigation, have you represented a	20	Q All right. Let me ask you this: I
21	manufacturer?	21	have a CV that was contained within your
22	A If you consider Lockheed a	22	August 3rd, 2011, report. Has that CV changed
23	manufacturer, I've I was defending them in a	23	at all? Is that the most recent CV? I mean, I
	government bid protest, but it's completely	24	can let you look at it, too.
24 25	government bld protest, but it's completery	25	can let you look at it, too.

		J (lages 14 to 17)
14		16
Yes.	1	in California called Saleen, S-a-l-e-e-n.
Yes, that's that hasn't changed.	2	Q What did you do at Saleen?
		A I was originally the chief engineer
		at Saleen and later became the vice-president
		of engineering.
		Q What kind of vehicles did you work
		on at Saleen?
		A Saleen was in their main
	1	business was modifying Mustangs and reselling
	1	them as Saleen vehicles. Very similar to the
	1	Shelby-type work from the '80s that I did for
-	i	Chrysler.
		And Saleen also had a ground up
	1	vehicle that they were designing and
		manufacturing. It was called the Saleen S7,
		which wasn't based on any type of vehicle, but
	1	it was a complete ground up design.
	1	Q Okay. All right. How long did you
	1	stay at Saleen?
	1	A I was at Saleen for two years,
	1	approximately.
	1	Q Okay. Did you have the same title
	1	at Chrysler from 1982 to 1999, or did it
	1	change?
		A It changed a few times.
	123	
		17
		Q Would you be able to give me a
	ž	brief rundown of your titles?
	1	A Well, I could I did I have
	4	
a I did that thearrab 107	1	them in my CV? Let me see.
s. I did that through '97.	5	Q I see from 1982 to 1989 it says
And the next couple of years I was	5	Q I see from 1982 to 1989 it says "product development engineer"?
And the next couple of years I was le development for the small car	5 6 7	Q I see from 1982 to 1989 it says "product development engineer"? A That would be correct.
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	Yes, that's that hasn't changed. Okay. And I see that you worked sler starting in 1982? That's correct. Can you tell me a little bit about a did at Chrysler starting in 1982? When I started at Chrysler, I was I facility in California called the Shelby Performance Center. And we did what I would call feasibility studies, projects that were power train, chassis in-related. Then that moved into what I would be vehicle manufacturing, where we took vehicles, disassembled them, modified assembled them, and sold them as branded vehicles. And that was the main that. That led up to about 1989. Want me to just keep going through the history or do you want to Yeah. If you wouldn't mind, that be great. The in '89 I went moved back it and worked on the Viper team in the	Yes. Yes, that's that hasn't changed. Okay. And I see that you worked sler starting in 1982? That's correct. Can you tell me a little bit about did at Chrysler starting in 1982? When I started at Chrysler, I was I facility in California called the Shelby Performance Center. And we did what I would call feasibility studies, projects that were power train, chassis in-related. Then that moved into what I would e vehicle manufacturing, where we took vehicles, disassembled them, modified assembled them, and sold them as pranded vehicles. And that was the main that. That led up to about 1989. Want me to just keep going through the history or do you want to Yeah. If you wouldn't mind, that e great. The in '89 I went moved back it and worked on the Viper team in the  15 area through about '94. And after, in ok on the responsibility to run c's racing program for Vipers, which was

	18		20
1	MR. STOCKWELL: His time at	1	supplemental report had a CV.
2	Chrysler, '82 to '89.	2	MS. DeFILIPPO: Okay. But I
3	A In the '82 to '89 time frame, no, I	3	think it's the same thing.
4	really didn't have anybody reporting to me.	4	MR. STOCKWELL: It might be. It's
5	Q Okay. From 1982 to 1989, in your	5	fine.
6	work as a product development engineer, did	6	MS. DeFILIPPO: Yeah. I think it's
7	that in any way involve fuel systems?	7	the same one. It just happened to come with
8	A At that time, I would say the fuel	8	the report.
9	system work was more peripheral. If we	9	MR. STOCKWELL: Right.
10	designed for example, we designed a 16-valve	10	BY MR. STOCKWELL:
11	cylinder head, so the installation of that	11	Q All right. So from 1989 to 2000,
12	cylinder head required changes to the fuel	12	it looks like you still had a title of product
13	system. So I would have done the design work	13	development engineer
14	for those fuel system changes. And I would	14	A That's correct.
15	and those were more on a prototype basis, not a	15	Q on the Viper platform?
16	production design.	16	A Yes.
17	Q Okay. And then from 1989 to 2000,	17	Q Who did you work for during that
18	it says, "NASCAR Winston Cup program manager"	18	phase?
19	and then "Viper GTS-R program manager."	19	A It could have been two people.
20	Did you have any other titles	20	One was Pete Gladysz, G-l-a-d-y-s-z. You would
21	oh, wait. There were a lot of titles during	21	have never got that. And Herb Helbige,
22	that time.	22	H-e-l-b-i-g-e.
23	MS. DeFILIPPO: A copy of his	23	Q Okay. Was anybody reporting to you
24	report	24	during that time?
25	MR. STOCKWELL: Okay.	25	A At that time I was still pretty
tra-substitution		<b>-</b>	
	. 19		21
1	MS. DeFILIPPO: of his CV.	1	much a one-man show, so no.
2	MR. STOCKWELL: Okay. Good.	2	Q Okay. Did any of your work from
3	MS. DeFILIPPO: He's been answering	3	the 1989 to 2000 time frame involve work on
4	these questions without having the copy in	4	fuel systems?
5	front of him.	5	A It would have been only as a as
6	THE WITNESS: You know what? I've	6	related to full vehicle tests, so I was
7	got it pretty well memorized.	7	responsible for running most of the full
8	MS. DeFILIPPO: You did pretty	8	vehicle tests, which may have had some type of
9	yeah.	9	fuel system instrumentation. And basically, I
10	THE WITNESS: Yeah. I've	10	would just be gathering data for the fuel
11	MR. STOCKWELL: Is that the one	11	system and design engineer.
12	that I'm looking at, the one with "FACT" on it?	12	Q All right. What kind of data would
13	MS. DeFILIPPO: Yeah. It's the	13	you be accumulating?
14	only one that we have.	14	A Mostly temperatures and pressures.
15	MR. STOCKWELL: That's a different	15	Q What kind of tests were being done
16	one.	16	during the '89 to 2000 time frame?
17	THE WITNESS: This one is a	17	A What we were doing then is we
18	slightly earlier one, but I don't think any of	18	had it was really a transition, and maybe
19	the basic content changed.	19	even the first application at Chrysler of a
20	MS. DeFILIPPO: Then I don't have	20	returnless fuel system.
21	it, either.	21	So we had been doing some testing
22	MR. STOCKWELL: It was an exhibit	22	for the initial prototypes had return-type
23	to your August 12th, 2011, letter.	23	fuel systems. And we were having issues,
24	MS. DeFILIPPO: August 12th?	24	performance issues, with that.
25	MR. STOCKWELL: Yeah, the	25	We transitioned to a returnless

			/ (Pages 22 to 25)
	22		24
1	fuel system and so the testing was mostly	1	frame rail, the Mustang?
2	in gathering data on the different performance	2	A Not it is currently, and I don't
3	levels of the two types of fuel systems.	3	know when they made that transition. I know
4	Q Okay. At Saleen, from October,	4	up until 2004 it was not. So at some point,
5	2000, to January, 2002, who did you report to?	5	2005 or later, but I really couldn't put a
6	A I reported initially to Don	6	specific date to that.
7	Cuzzerea, C-u-z-z-e-r-e-a, I think.	7	Q Okay. So I see after Saleen you
8	Q The whole time or just part of the	8	went to Ford Motor Company, January, 2002, to
9	time?	9	February, 2004?
10	A No. Probably maybe the first year,	10	A That's correct.
11	and then I was reporting directly to Steve	11	Q And you were a chief engineer?
12	Saleen.	12	A Yes.
13	Q Anybody reporting to you during	13	Q And I see the description here, but
14	that time frame?	14	can you explain to me what you did as a chief
15	A Yes. There were a few people	15	engineer at Ford during that time frame?
16	reporting to me at that time.	16	A Well, basically I was responsible
17	Q Was there anybody that you can	17	for the new Ford GT. And that included, you
18	recall as you sit here today?	18	know, vehicle concept, budget, timing, putting
19	A It would have been John, John	19	together the team, the concept of how the
20	Spruill, S-p-r-u-i-l-l, and Rob Simon,	20	development program would work. Really all
21	S-i-m-o-n.	21	all aspects, both technical and program.
22	Q Did you work on the fuel system at	22	Q Who did you report to at Ford Motor
23	Saleen?	23	Company as chief engineer?
24	A Part of my responsibility was the	24	A I was reporting to John Coletti,
25	overall design of the fuel system for the	25	who was the I believe his title was director
	23		25
1	Saleen S7. And we and then peripheral	1	of special vehicle teams, SV team.
2	work with the fuel system on the Mustang-based	2	Q Okay. Did you know who he reported
3	vehicles, which was really limited to some	3	to at Ford?
4	rerouting of fuel lines in the engine	4	A He reported to it did change in
5	compartment based on some changes we made.	5	the time we were there. It was some other
6	Q Okay. How were the fuel lines	6	good names. Zevelkink. I think his first name
7	rerouted?	7	was Mike. I could be wrong.
8	A Part of the modifications that we	8	Q Okay. Zevelkink. If I try and
9	made to these cars were they add super	9	spell that, I would say Z-e-v-e-l-k-i-n-k? Is
10	chargers, and that required a little different	10	that roughly accurate?
11	routing of the fuel hoses.	11	A You know you know that may be
12	And we actually created one issue	12	accurate.
13	where we had the factory fuel hose, we ended up	13	Q All right. What was his title?
14	relocating the EGR valve, and it ended up too	14	A I probably don't really recall
15	close to the factory fuel hose, so we had to	15	Q Okay.
16	reroute it to avoid a temperature issue.	16	A his title.
17	Q In the time frame that you were at	17	Q And did you have anybody reporting
18	Saleen, October, 2000, and January, 2002, did	18	to you during that time frame at Ford?
19	the Mustang have the fuel filler hose routed	19	A I really limited it to three direct
20	through the frame rail or somewhere else?	20	reports, but the this team of 140 people
21	A It was not routed through the frame	21	was, you know, all reported in through those
22	rail	22	three people, so
23	Q Okay.	23	Q Okay. Was there a department that
24	A at that time.	24	you worked at at Ford?
25	Q Was it ever routed through the	25	A We were under the umbrella of the

			- (rages 20 co 25)
	26		28
1	special vehicle team. SVT.	1	the form?
2	Q And this was just Ford GT, or did	2	MS. DeFILIPPO: You said were there
3	you work on any other Ford vehicles?	3	other vehicles
4	A Strictly Ford GT.	4	MR. STOCKWELL: Other Ford
5	Q Okay. And were you involved in the	5	vehicles.
6	fuel system of the Ford GT?	6	MS. DeFILIPPO: with the fuel
7	A Yeah. I actually architected the	7	tank
8	fuel system, came up with the concept, the	8	MR. STOCKWELL: Let me
9	general packaging. And then as the team	9	MS. DeFILIPPO: behind the axle?
10	developed, there were other engineers that took	10	MR. STOCKWELL: Let me
11	over more detailed aspects of the fuel system	11	MS. DeFILIPPO: We haven't
12	design.	12	discussed any vehicles.
13	Q Okay. When you say and I don't	13	MR. STOCKWELL: Well, he's
14	want to put words into your mouth but	14	discussing the GT.
15	architect of the fuel system?	15	MS. DeFILIPPO: Ford vehicles.
16	A Correct.	16	MR. STOCKWELL: He's discussing the
17		17	GT. But I'll
1	Q What decisions did you specifically	18	MS. DeFILIPPO: But the GT isn't
18	make with respect to the fuel system?	19	THE PERSON NAMED IN COLUMN TO SEE ASSESSMENT OF THE PERSON
19	A The well, the location of the	20	he didn't testify the GT was had the tank behind the axle.
20	fuel tank, the material of the fuel tank, and I	21	
21	had some general concepts as far as fuel pump	22	MR. STOCKWELL: I agree with you.
22	module, returnless fuel system, and the routing	1	Let me rephrase the
23	of the fuel filler hose. Those things as	23	MS. DeFILIPPO: So I object to the
24	concepts.	25	form.
25	Q What material was the tank in that	25	MR. STOCKWELL: So let me rephrase
	. 27		29
1	vehicle?	1	the question.
2	A It was a plastic tank.	2	BY MR. STOCKWELL:
3	Q Okay. And where was that tank	3	Q Were there vehicles that Ford
4	located?	4	produced during that time frame, January, 2002,
5	A It was right in the center of the	5	to February, 2004, that had fuel tanks located
6	vehicle. So two people are sitting in the	6	behind the rear axle?
7	vehicle. There's a center tunnel, which is	7	A At least one that I know of.
8	quite large, and the tank ran it was a long,	8	Q What is that one that you know of?
9	thin tank that ran inside that tunnel. And at	9	A That was the Mustang.
10	the front, we called it a hammerhead design	10	Q Okay. All right. So you left
11	because the front sort of bulged out to get the	11	Ford, I think in February, 2004, and you went
12	capacity that we needed.	12	to McLaren?
13	Q Okay. So would the tank be located	13	A Yes, I did.
14	under the driver's right elbow underneath?	14	Q Did the Crown Victoria, from
15	A Correct.	15	January, 2002, to February, 2004, have a tank
16	Q At that time, January, 2002, to	16	located behind the rear axle; if you know?
17	February, 2004, were there other Ford vehicles,	17	A I believe it did.
18	if you know, that were manufactured with the	18	Q Okay. So it would have been the
19	fuel tanks located behind the rear axle?	19	Mustang and the Crown Victoria?
20	MS. DeFILIPPO: Can you read that	20	A Those two. I think you asked were
21	question back? I missed it.	21	there some vehicles I knew of, not every
22	(Question read.)	22	vehicle that I knew of
23	MS. DeFILIPPO: Other than wait	23	Q Okay.
	Mio. Doi 1111 I O. Oulei ulali Wall	1	
	a minute. I object to the form	24	A at Ford And then there may
24 25	a minute. I object to the form.  MR. STOCKWELL: What's wrong with	24 25	A at Ford. And then there may have been others. I just

	1 - 0	4900	00	0	00

		30		32
1	1	Q Well, that's fair.	1	A That was a startup company that was
1	2	A the Mustang	2	focused on not the original design was a
	3	Q If you know.	3	three-wheel vehicle. The focus was really on
1	4	McLaren, what did you do at	4	efficiency. And we looked at alternatives:
1	5	McLaren?	5	gas, hybrid, electric, alternative fuels. But
			6	the main initial product that they're known for
	6		7	is an electric three-wheel vehicle.
1	7	of engineering.	8	
1	8	Q What does that mean?	9	Q Okay. All right. What did you do there?
	9	A Well, I was responsible for all the	10	No. of the Control of
- 1	10	engineering and technical aspects of the		A I had the job title senior
- 1	11	McLaren products, which at that time were a	11	vice-president of manufacturing and program
- 1	12	Mercedes-branded vehicle that was in	12	management.
- 1	13	production, and a new McLaren-branded vehicle,	13	Q What does that mean? What did you
- 1	14	which has actually just this year recently	14	do?
	15	reached production.	15	A Well, I did a variety of things
-	16	Q Okay. Is that the same vehicle	16	when I was there within that job title, which
-	17	that you were working on while you were there?	17	ranged from being the design or lease engineer
1	18	A Yes, it was	18	for a number of components and systems; and at
	19	Q Were you involved in the fuel tank	19	one point pretty much running the company, on
-	20	or the fuel system of the vehicle?	20	the other hand.
1	21	A The new vehicle, which the name	21	So I had it was a small
	22	currently is the McLaren MP4-12C. I was	22	start-up, innovative company that two
	23	involved in the fuel system design of that	23	co-founders were really you know, innovative
1	24	vehicle.	24	thinkers. They had actually no paradigms about
1	25	On the Mercedes McLaren SLR, the	25	how the auto companies worked. They they
	Armente errordionismen artistet (Tartel	. 31		. 33
	1	vehicle was pretty much designed when I got	1	actually didn't mind me doing product
	2	there. And I think my only involvement was at	2	litigation work, which, you know, the old-style
	3	least one quality issue, where we had a	3	car companies, you know, it's you're
	4	supplier issue related to the fuel tanks. We	4	plaintiffs or defense, and that's that.
	5	had to come to the root cause of that problem	5	These guys thought I was learning a
	6	and get that corrected.	6	tremendous amount of things by seeing cars in
	7	Q Okay. Why did you leave McLaren in	7	the real world, so they thought that was a
	8	January, 2007?	8	benefit. So it was a pretty interesting
	9	A I had a three-year contract that	9	wide-ranging job.
	10	expired, and at that time it appeared the	10	Probably the only thing I
	i	project was on hold. I was skeptical of if it	11	absolutely did not do there was any work on a
	11		12	fuel system.
	12	would ever actually get going again. So that's	13	Q Okay.
	13	why I made the decision to leave and get	14	A With the electric vehicles, there
	14	ultimately, they got the program going again.		
	15	So I may have regretted leaving, because it's	15	just was no fuel system.
	16	a it's a pretty good car that they finally	16	Q Right.
	17	got in production after about a nine-year	17	A So we had a lot of different
	18	cycle, so	18	challenges to solve. I did I was releasing
	19	Q Okay.	19	seats and seat belts and wheels and tires and,
	20	A It took them a long time, but Ron	20	you know, just a real variety of systems.
	21	Dennis is a very tenacious person and he did	21	Q All right. Why did you leave
	22	get it done, so my hat's off to them.	22	Chrysler in 2000?
	23	Q Okay. And what	23	A You know, at one point I had a list
	24	(Discussion held off the record.)	24	of ten reasons. I probably don't recall any of
	25	O What is Terra Motors?	2.5	them at this point. It was a tough decision

Q

What is Terra Motors?

24 25

them at this point. It was a tough decision

(Pages 34 to 37) 10 36 34 after 18, 19 years at a, you know, pretty good 1 else? 1 2 2 No. At that point I was working company, but I just -- what I had decided, Α 3 strictly independently, just independent 3 probably a few years before I left Chrysler, was I got tired of trying to develop what I 4 consultant. 4 5 In January of 2011, I formed a 5 thought were, you know, inadequate designs into partnership with two other people and that's 6 6 good cars. I realized you can't develop bad 7 7 design into good cars. the FACT. 8 All right. FACT stands for 8 So I shifted into design to try to Q 9 design the systems better up-front, and was 9 Forensics Automotive Consulting Team? 10 Correct. 10 enjoying that. And, you know, using a lot of 11 And there are three partners, you simulation technology to get good designs Q 11 12 12 said? up-front. 13 A Yes, there are. 13 And then I realized really it was And you're one. Who are the other 14 management that was making decisions that 14 Q 15 two? 15 affected design, and so, you know, thought I 16 A gentleman named Richard Hille and 16 needed to get more into management, and just 17 a lady named Paula Re, which is R-e. 17 found that difficult at Chrysler. I'd spent so 18 much time as a technical guy. Q Okay. 18 19 A And Hille has an E on the end of 19 And, you know, there's kind of two 20 20 career paths, you know, at Chrysler -- with a it. 21 Q How many employees does FACT have? 21 lot of companies, it was a technical career 22 There's no employees, just the 22 path. And it was hard to hop over across to A 23 three partners. 23 the management career path. 24 So I decided to leave Chrysler to Q Okay. During the time you worked 24 25 at Chrysler, did you know a man by the name of 25 get more on that management career path, 37 35 Paul Sheridan? 1 1 actually changed companies to, you know, 2 You know, at the time I was there I 2 achieve my goals of, you know, being able to 3 have more control of the total vehicle design 3 actually did not know Paul. And I didn't even 4 hear his name until the -- you know, 4 from a management aspect. 5 controversy of his leaving. 5 Okay. Did you ever work on the 6 6 Jeep Grand Cherokee during your time at Q Okay. 7 Which was kind of a public thing. 7 Chrysler? Α 8 It was in the newspapers, so... 8 A No, I did not. Okay. Have you ever met him? 9 And why did you leave Ford in 2004? 9 Q Q 10 A I have since met Paul, yes. 10 To actually take the job at When was the first time you met 11 Q 11 McLaren. They came recruiting me. And it was 12 just a -- too good of an opportunity to pass 12 him? 13 I believe it was actually 13 inspecting the Morris-Kline vehicle. 14 14 Okay. And since February of 2007, 15 15 Okay.

you've been a self-employed automotive consultant?

That's correct. With the -- the Aptera job overlapped that a little bit.

> Q Okay.

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19 20 So I continued to consult 21 throughout the Aptera job, but that -- Aptera 22 was -- you know, I got a W2. I was more of an 23 employee than a consultant for them. 24

Okay. Did you form a company in February, 2007, or did you work for someone Q

A Which would have been 2009.

worked at Chrysler, were you aware that the 18 Jeep Grand Cherokee that was produced from '93, 19 20 at least up until the time you left Chrysler, 21 had a fuel tank that was located behind the

Okay. During the years that you

22 rear axle?

> A Yeah. I'd say I was somewhat aware of that fact. It's nothing I had studied, though.

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			11 (Pages 38 to 41)
	38		40
1	Q Okay. Are you aware of anybody at	1	mid-mounted tanks, was putting poles in the
2	Chrysler during your time up until you left, of	2	Ford access fuel pump modules. I was totally
3	course, in 2000 expressing any concerns about	3	against putting floors holes in the floor.
4	the design of that fuel system?	4	And my alternative was let's design
5	A In probably '98, '99 time frame,	5	better fuel pumps so we don't have to provide
6	I was designing a working on an advanced	6	access to replace fuel pumps.
7	design of an SUV for Chrysler, a compact SUV,	7	Q Okay.
8	more of a RAV4, CR-V competitor, which that	8	A So that was my biggest concern as a
9	vehicle never it became a production	9	downside to a mid-mounted tank.
10	vehicle, but I was doing a lot of the advanced	10	But as far as, you know, structure,
11	design.	11	relocation, the 301 test, it was pretty obvious
12	I sat in on the fuel systems tech	12	that's where the tanks needed to go.
13	club meetings and also was involved in a lot of	13	Q Okay. The memo you said that
14	discussions of the new 301, the high-speed	14	almost got you fired, who did you send that
15	impact. And in those meetings there was, you	15	memo to?
16	know, significant discussion about, you know,	16	A It was probably at that time it
17	rear tanks versus mid-mounted tanks and the	17	would have been either Pete Gladysz or Herb
18	issues, you know, concerns of how to certify	18	Helbige, and may have copied Roy Sjoberg, who
19	those vehicles.	19	had been the chief engineer on the Viper
20		20	program.
21	Q Certify them under the new 301 test?	21	Q What did that memo consist of?
22	A Correct.	22	A Well, it was about really the
23	Q Okay. Who was present at those	23	braking system. Fire related to the braking
24	meetings?	24	system.
25	A You'd have to probably dig out	25	Q Of the Viper?
20	39	123	Q Of the Viper:
1	meeting minutes to figure out that.	1	A Yes.
2	Q Are those things you have, those	2	Q Did you ever either write a memo or
3	meeting minutes?	3	verbally complain to anybody at Chrysler about
4	A No, no. That's not no. You	4	the Jeep Grand Cherokee during your time at
5	don't you leave a company like Chrysler, you	5	Chrysler?
6	don't take stuff like that. So I don't have	6	A No.
7	anything. I think Karen Wagner was the chair	7	Q Are you currently a member of any
8	of at least one of those tech clubs at the	8	trade organizations?
9	time.	9	A The Society of Automotive
10	Q Okay. Were there any concerns	10	Engineers. That's more a technical
11	expressed, aside from the need to comply with	11	organization than a trade organization, I
12	the new 301 standard?	12	guess.
13	MS. DeFILIPPO: Wait a minute.	13	Q Okay. Any training in fire
14	Objection to form.	14	prevention?
15	A Well, the biggest sure.	15	A No official training, no.
16	There's you know, there's lots of issues.	16	Q On the job?
17	There's, you know, pluses and minuses of all	17	A Yeah. You have a lot of on-the-job
18	types of designs. And probably the biggest	1.8	experience. When you say "fire prevention,"
19	issue I raised, and verbally I was a good	19	you're talking like the NFPA-type
20	soldier. I didn't write memos about things.	20	organizations?
21	Well, I actually I wrote a memo about a fire	21	Q Right. Yeah.
22	once and that almost got me fired So I	22	A Vesh They a lot of that stuff

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A Yeah. They -- a lot of that stuff is, you know, industrial, home, fires, they

have a -- one chapter in their book about

automotive fires. Most of their classes don't

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'91.

once, and that almost got me fired. So I

learned not to do that, in '93. Or no, maybe

But my concern was with the

			12 (Pages 42 to 45)
	42		4 4
1	even cover the automotive stuff. They do	1	management and design.
2	there are some rare classes that talk about	2	Q Okay. Design of vehicles?
3	automotive fires, but they happen so	3	A Design of vehicles, systems, and
4	occasionally it's hard to schedule those in.	4	then also development. Testing of vehicles and
5	Q Do they offer a vehicle fire	5	systems. In some cases, strictly testing.
6	certification?	6	I've been hired at times strictly as a test
7	A I don't believe that NFPA does.	7	driver.
8	Q Okay.	8	Q Okay. What about design of fuel
9	A I'm just not sure.	9	systems for these niche companies? Do you do
10	Q Okay. How about any training in	10	that as well?
11	fire investigation as opposed to fire	11	A In at least one case, yes.
12	prevention?	12	Q Can you tell me what manufacturer
13	A No training, no.	13	and vehicle that is?
14	Q Have you taken any classes in those	14	A No. I actually don't disclose any
15	fields? That being fire prevention or fire	15	of my other clients since Tatoni & Brooks
16	investigation?	16	(phonetic) sent a deposition to some of my
17	A No classes.	17	outside clients, which I thought was
18	Q Forensics Automotive Consulting	18	extraordinarily unethical. I just decided not
19	Team. Do they do work other than litigation?	19	to disclose any of that, so
20	A No. That partnership is pretty	20	Q Okay. Fair enough.
21	much strictly related to litigation work.	21	A Figure it out for yourself. And
22	Q Is it all on behalf of plaintiffs,	22	some are actually confidential. I do have
23	aside from, of course, the government bid that	23	confidentiality agreements with some of those
24	you spoke about?	24	manufacturers.
25	A Well, no. The government bid is	25	Q Sure. I can appreciate that.
	. 43		45
1	not a FACT I'm not exclusive to FACT.	1	Does all your litigation work go
2	Q Oh, okay.	2	through FACT?
3	A FACT is a partnership I'm part of.	3	A No.
4	I do other work that's outside of FACT.	4	Q Okay. Do you have outside cases on
5	Q So	5	the that you handle withdrawn.
6	A Right now, I would you know,	6	The list of deposition and trial
7	through 2007, litigation work's been, you know,	7	testimony you've given me here, have you done
8	I would say a quarter to half of my time, as	8	that through all these cases through FACT?
9	far as what I do you know, all the work that	9	A No. Some of those predate FACT.
10	I do.	10	Q Okay.
11	And I would say FACT, since 2001,	11	A And since FACT has formed let's
12	has been, you know, you know, about maybe half	12	see. Yes. Since FACT has formed, they have
13	my time at the most. The other work I do	13	not all been FACT cases.
14	is outside of FACT.	14	Q What's the determining factor as to
15	Q Okay. What do you do outside of	15	whether a case will be through FACT or through
16	FACT?	16	you alone?
17	A The well, I do coaching of race	17	A You know, a number of things. At
18	car drivers. Consulting with the race teams.	18	least a couple different criteria.
19	And I do consulting work for vehicle	19	Q What are those criteria?
20	manufacturers that are, I would say, you know,	20	A Probably something I wouldn't
21	niche or boutique-type manufacturers; not the	21	that's a business practice I'm not gonna
22	big three or anything like that.	22	disclose.
23	Q Okay. What kind of consulting work	23	Q Okay. Do you have a corporation
24	do you do for these niche manufacturers?	24	set up for these cases that you do on your own?
25	A It's a combination of program	25	A No.

			15 (1ages 40 co 47)
	46		48
1	Q If I called you up today and I said	1	A Correct.
2	I need a somebody to represent my client in	2	Q Was Ford involved in that case as
3	a case against Mercedes-Benz, would it	3	well? The manufacturer?
4	automatically go through FACT, automatically go	4	A Yeah, I believe it's still ongoing
5	through you, or something else?	5	and Ford is the manufacturer.
6	A I guess it would it would not	6	Q Okay. What is the allegation in
7	automatically go through anything.	7	that case?
8	Q Okay. And the litigation work that	8	A Well, it was a well, the
9	FACT does, is that all on behalf of plaintiffs?	9	allegation against the dealership was a
10	A No. There's one no, I take it	10	maintenance allegation. And I'm not sure if
11	back. Because that's not FACT. Yeah.	11	they have other claims of crashworthiness or
12		12	
	Actually, I think right now all the FACT cases		not, because I just haven't looked at that part
13	are plaintiff cases.	13	of the case.
14	Q Has FACT ever represented a	14	Q You were there to address the
15	manufacturer, to your knowledge, in a product	15	maintenance claims only?
16	liability automobile case?	16	A Correct.
17	A No. We've had discussions with	17	Q What was the allegation about the
18	some not mainstream manufacturers, but we	18	maintenance?
19	haven't had any cases like that.	19	A The, you know, maintenance of the
20	Q Okay. Does FACT advertise the	20	steering system, as far as lubrication and
21	settlements or verdicts that it's been involved	21	there were allegations, also, of let's see, it
22	in?	22	would have been in the CV joints, but I
23	A Not all of them. I think there's a	23	think that actually was more of a Ford design
24	few that are listed on our website.	24	issue. But we did inspect it. I was involved
25	Q Okay. And you personally, with	25	in the inspection of those components, but I
	47		49
1	regard to litigation, since 2007, have you ever	1	Q Were you there to address what the
2	represented a manufacturer in a products	2	dealer should or should not have done when the
3	liability case?	3	vehicle was brought in for service?
4	MR. GILL: Again, with the	4	A Yes, I was.
5	stipulation, "representing."	5	Q Okay. Did you give a report in
6	Q Yeah. Instead of "representing," I	. 6	that case?
7	mean have you been an expert on behalf of a	7	A No, I've not.
8	manufacturer?	8	Q Okay. Who are the attorneys in
9	MS. DeFILIPPO: Other than what	9	that case for the that you were hired by?
10	he's testified to?	10	A Tharpe & Howell.
11	MR. STOCKWELL: Right.	11	Q I'm sorry? Could you say that
12	A Not no, I have not. And I've	12	again?
13	only done I have done one defense case, but	13	A Tharpe & Howell.
14	it was defense of a dealership, not a	14	Q Are you able to spell that?
15	manufacturer.	15	A Yeah. T-h-o-r-p-e, [sic], Howell,
16	Q What dealership did you defend?	16	H-o-w-e-l-l.
17	A Well, it's Tuttle-Click Ford in	17	Q And that case is in what state?
18	Riverside, California.	18	A California.
19	Q I'm sorry. Title?	19	Q Do you know the names of the
20	A Tuttle.	20	plaintiffs' attorneys?
21	Q Tuttle.	21	A Yes. It's Jason Bisner.
22	A T-u-t-t-l-e. Click.	22	Q Bisner?
23	Q Click?	23	A Yeah. I think it's B-i-s-n-e-r.
24	A Yes.	24	Q And you haven't given a deposition
25		25	in that case either, I assume?
25	Q Ford?	120	ni mai case cinici, i assume:

14 (Pages 50 to 53) 50 52 1 A No. 1 the two reports, meaning December 4th and 2 MS. DeFILIPPO: Did you say that 2 August 3rd, contain all your opinions and 3 3 conclusions in the Kline case? case was pending? 4 THE WITNESS: Yes. 4 Yes, they do. 5 MR. STOCKWELL: He did. 5 Okay. Other than what's in your O 6 6 I have two reports from you. One reports, did you obtain information from any 7 is dated August 3rd, 2011, and the other is 7 other sources? 8 8 Yes. I got information from -- the dated December 4th, 2009. Do you have those A 9 reports with you? 9 Center For Auto Safety website had a lot of 10 10 I do, and I probably have one more. information. And I've got, you know, reference 11 11 Q You've issued another report? documents. Some general reference documents. 12 12 A There was a September 9th, 2010, I've got some things from other cases that I've 13 report. It's like I'm doing one a year. 13 had with General Motors, maybe. So I do have 14 14 September 9th, 2010? Was that -other things, other than the Chrysler 15 let's go off the record. 15 discovery. 16 16 (Discussion held off the record.) Q Okay. Did you bring your complete 17 17 MR. STOCKWELL: It's a good time to file here today? 18 take a break anyway. Five minutes. And then 18 A Yes, I did. 19 just let me know what you guys want to do. 19 Has anything been taken out of that Q 20 20 (Recess taken.) file? 21 All right. So Mr. Hannemann, we've 21 No. A 22 22 established that there are two reports. The Q Okay. By you or anyone else? 23 December 4th, 2009, that you essentially are 23 A No. 24 24 relying on, and August 3rd, 2011; is that Q Okay. Did you speak to any other 25 accurate? 25 experts before issuing your reports? Either of 51 53 1 Well, that's accurate, and I would 1 the reports? 2 say the August 3rd, 2011, contains everything 2 I've spoken with both Don Phillips 3 in the earlier report. 3 and Paul Sheridan. We were all three at the 4 I gotcha. 4 inspection. I'm not sure we discussed Q 5. 5 A So I wouldn't -- I would say just specifically the opinions or reports, though. 6 6 the one report's sufficient to work with. Okay. Do you rely on any of the 7 7 Okay. All right. And I may opinions of any other experts in reaching your 8 8 actually start with the December 4th report opinions or conclusions? 9 9 just because that's the way I mapped this out. MS. DeFILIPPO: I'll object to the 10 10 form of that. A Sure. 11 11 But do the reports or -- I'll just (Brief phone interruption.) 12 say the reports. Do the reports contain all 12 MR. STOCKWELL: We'll take a break. 13 13 the facts that you relied upon in this case in (Brief recess taken.) 14 forming your opinions? 14 MS. DeFILIPPO: I'm sorry. 15 For the most part. There -- I may 15 MR. STOCKWELL: That's okay. 16 16 I'm sorry. Where were we? have come across things since I wrote the

discovery material.

Q Okay. And you haven't issued any supplemental reports to date?

A No. I would say that none -- nothing I've done has changed any of my opinions. It's just I may have discovered more basis for the opinions.

report, reviewing more of the Chrysler

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Okay. So your reports contain --

opinions or conclusions?")

(Question read:

Okay. Do you rely on any of the

Generally, no. In Paul Sheridan's

opinions of any other experts in reaching your

case, I think a lot of -- he has a lot of stuff

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"Q

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the case, but just about how Chrysler operates
and some very good background information on
car companies and decisions. Nothing I'm
relying on.
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And in Don's Phillip's report, typically I rely on the reconstruction, but I think both the defense reconstructions and Don's, I -- I have the opinion that they're a bit overstated on the speed of the Jeep.

Q Okay.

A So I haven't really relied on those. And potentially, that's -- you always ask about future work. You know, I may do some analysis of the reconstruction myself, just to see if -- you know, again, it's more my -- just my experience tells me that the speeds are off, but I haven't done any real analysis to prove that.

I have not actually -- you know,

Q Do you have any accident reconstruction training?

there's like a one-week class that is taught at
Northwestern University that I have not
attended. And that teaches some -- that's
really intended for people like police officers

Vs?

A Well, the 70-mile-an-hour -- the
70, 75-mile-an-hour tests, Taurus into the
Explorer, and the Delta V of the Explorer ended
up being 32 miles an hour, which is quite a bit
lower than the -- I think, Durisek and
Kineticorp were in the 36 to 40 range.

In the 50-miles-an-hour Federal Highway Test, it uses the Cherokee and had a Delta V of 23, which is, you know, quite a bit lower again. Obviously, the lower speed of the striking vehicle, the Delta Vs go a bit lower.

And the -- I believe the Karco test, 50 miles an hour to the Jeep, was 20 -- 25, I think. So those are all enough lower that in that 50- to 70-mile-an-hour range, it makes me a bit skeptical of the reconstructions.

Q Okay. So your scepticism is based on the Delta Vs that you had learned from the Karco and the FHA tests?

A Well, yeah. And that's where I went first investigating it. My first impression is it just -- it just didn't seem right from just a kind of subjective feel and

who, you know, can learn some of the basic formulas and techniques for reconstructing accidents.

In my case I would probably work more from the -- just the theory and physics. And with my engineering background and my vehicle dynamics background, I, you know, would feel pretty comfortable doing reconstruction-type work.

Q Okay. Have you done any analysis of the defense reports as it pertains to speeds? Have you done any specific analysis?

A Well, I have reviewed -- basically what I did with the Kineticorp ones, I reviewed a number of the other tests that have been produced here. I reviewed the Karco tests and the Federal Highway Administration tests, and used them as -- just as, you know, substantially similar tests, and compared the Delta Vs off of those tests to the Kineticorp tests, which, you know, kind of backed up my opinion that the Delta Vs were a little off, because those have, you know, in some cases substantially lower Delta Vs.

Which has substantially lower Delta

looking at the pictures of the vehicle damage.
 And the Toyota -- the Toyota is --

And the Toyota -- the Toyota is -- is -- you know, the damage to the Toyota, whereas the Sienna damage is, you know, mostly to the hood and the area above the frame rail. You see in the pictures that the frame rails are, you know, virtually untouched, and so really not -- the really good part of the crash structure on that Toyota wasn't engaged.

So if somebody had taken the -these reconstructions use these Neptune
coefficients, and those are based on frontal
tests, where you have full engagement, and
they're not appropriate in this case.

I've had access to a
13-mile-an-hour test with a Sienna, which was a
sim -- it was a rear-end collision against a
Ford Probe. And this is run by an accident
reconstruction group, for purposes of gathering
data for reconstructions.

And the -- you know, the 13-mile-an-hour test they did has, you know, some similarities to the Toyota in that it missed the main structure, and, you know, one side of the vehicle looks similar to the

p			10 (rages 50 to 01)
	58		60
1	Sienna.	1	yourself out as? What kind of area of
2	And those are just, again, my	2	expertise?
3	judgments and subjective feels. I haven't done	3	A Well, I really I cover a wide
4	any real calculations or analysis.	4	range of areas. And, you know, rather than
5	Q Okay. All right. Have you done	5	I've I've, you know, listed a lot, and there
6	anything else other than what you've told me as	6	was some documents that where I listed a
7	you sit here today in assessing the speed of	7	number of expertises, but that those were
8	the Toyota Sienna?	8	things that I apply to litigation.
9	MS. DeFILIPPO: Objection to form.	9	But it turns seems like every
10	A The Sienna itself yeah, it was	10	time something new comes up even fires.
11		11	When I first started doing this, fires wasn't
12	just really comparing the damage profiles	12	
1	Q Okay.	£	really on my list. I talked to a few
13	A of that. I did if I pursue	13	attorneys. They talked about my background.
14	this, this avenue for something that Angel	14	And they says, Oh, yeah, you're you've got
15	wants me to look at further, I would probably	15	good experience.
16	go to some of the NHTSA barrier tests to	16	So I've taken these things as
17	compare the damages there and, you know,	17	they as they come up. You know, I was gonna
18	progress that analysis. But I think that's	18	say earlier, I probably wouldn't go and
19	about all I've done with the Toyota.	19	critique software. I wrote software in high
20	Q Have you assessed the crush damage	20	school. But, you know, I've that's pretty
21	between the front end of the Jeep and the rear	21	old and I I wouldn't hold myself up as a
22	of the Subaru?	22	software engineer. But most any other system
23	A No, I really didn't look at that	23	on the vehicle I feel like I've got some good
24	impact.	24	qualifications for.
25	Q All right. How many times have you	25	Q Okay. Have you ever been offered
	59		61
1	inspected the Kline Jeep Grand Cherokee?	1	as an expert in the field of accident
2	A One time.	2	reconstruction?
3	Q Have you had an opportunity to take	3	A I've never even attempted to do
4	a look at the Sienna?	4	that. There's just there's a lot of people
5	A No.	5	out there that do reconstruction. And they've
6		6	got the equipment to do it. I actually found
7	Q Have you had an opportunity to look at the Subaru that was involved in the	7	
1		8	that I don't like standing on a road with cars
8	accident?		whizzing by trying to taking measurements, so
9	A No, I don't think anybody has,	9	I've just chosen not to do that.
10	actually.	10	Q Right.
11	Q Now, I think my original question	11	A That's but am I qualified to do
12	was, did these reports contain all your	12	it? Yeah, I think I'd be qualified.
13	opinions and conclusions in this case? And I	13	Q Okay. Have you ever testified in
14	think that's where we went off on the speeds.	14	any court about closing or impact speeds of
15	Is there anything else that's not	15	vehicles?
16	in these reports in terms of your opinions and	16	A Probably probably rely mostly on
17	conclusions?	17	other reconstructions for that. I
18	A No. The speeds. I mean, if I were	18	Q Have you ever oh, I'm sorry.
19	to do any rebuttals and things, it's not in the	19	A And there may have been I think
20	report. But I think as far as my opinions,	20	in some dynamics cases I've opined about speeds
21	this this is pretty good.	21	of maneuvers. I'm not sure.
22	Q Have you ever been disqualified	22	Actually, there was some
23	from testifying as an expert in any court?	23	reconstruction backup for that. So I'd say
24	A No, I have not.	24	most cases there's already been a
125		25	reconstruction done that I would rely on.
25	Q What kind of expertise do you hold	120	reconstruction done that I would left off.

17 (Pages 62 to 65) 62 64 1 Whether it's ARC -- I mean, whether it's FACT 1 All right. Have you ever testified 2 2 in a court or in a deposition about the cause or on your own? 3 and origin of a fire? 3 A real rough guess? Α 4 A Typically that's something I have 4 Q Yeah. It doesn't have to be --5 not taken on. Same thing. There's a lot of 5 About 40, maybe right now. A 6 really good cause-and-origin people out there. 6 Okay. Q 7 You know, I think taking the week class from 7 Sometimes they settle and I don't A 8 8 even know it, so... some organization -- there's a Lee Cole. He's 9 9 Right. We hear that complaint all got a really good book on fire cause and Q 10 origin, runs a class. But they run it like 10 the time. 11 1.1 once every two years. A Until a year later --12 12 Yeah. Q Okay. Q 13 A So I think, you know, if I were to 13 -- a year later, we say, "Haven't A 14 14 heard from you in a year." "Oh, we settled take that kind of class, I would probably have that six months ago." So that's a rough guess. 15 15 qualification to do it. But I've just, you 16 know, chosen not to do it. And there's plenty 16 All right. I think, other than the 17 17 of really good people out there that do that Sebring and maybe any other testimony you gave 18 earlier today, have you given -- have you type of stuff. 18 19 All right. Did anybody at FACT or 19 written a report or given any testimony Q 20 20 anywhere else, for that matter, assist you in concerning the design of a fuel system in any this case? 21 21 vehicle other than what we've already talked 22 22 about today? A You know, most of the -- a lot of 23 23 the work I did was prior to FACT. And I'm MS. DeFILIPPO: Wait a minute. I'm 24 24 trying to think if in the August -- well, so, going to have to object to form, because that's 25 25 very compound. yes. 63 65 1 The Toyota Sienna tests I referred 1 MR. STOCKWELL: Yeah. 2 to, that's run at ARC, that was -- I think 2 You know, I just don't remember 3 3 they're called the Accident Reconstruction exactly what you spoke about earlier in the 4 something. It's a group. 4 deposition. I know you mentioned the Sebring 5 5 My partner, Richard Hille, is a was a case involving the design of the fuel 6 6 member of that, and he attended those tests. system. Were there any other ones? 7 He's the one that supplied that information to 7 A Yeah. 8 me for this case. So that -- that came from 8 MS. DeFILIPPO: Wait. Wait. I 9 9 him. Other than that, I think -- I don't think have to object to the form, though. What are 10 any -- other than the administrative partner, 10 you seeking? Are you seeking his testimony 11 Paula, helping to, you know, organize the file 11 or -- the question that was compound, it asked 12 and things, there hasn't been any other work --12 for many things. 13 13 MR. STOCKWELL: Yeah. Q Okay. 14 A -- done by FACT. 14 What I mean is, any case that you 15 Were there any documents generated 15 worked on, a litigation case? Q 16 from that ARC Sienna test that you -- your 16 MS. DeFILIPPO: Did he work on any 17 partner talked to you about? 17 cases? 18 Not that I have. He supplied me 18 MR. STOCKWELL: Yes. Involving the 19 19 the pictures, some verbalization of the test design of the fuel system of any vehicle.

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this list.

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Sure.

Do you understand that?

Yeah, I understand it --

MS. DeFILIPPO: And --

-- and I'll go through the ones on

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parameters, and -- I had realized I actually

see if there's a report, so that's -- that

currently working on? Litigation cases?

potentially is future work.

would probably like to look at the vehicle and

Okay. How many cases are you

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66 A And they're -- and I'll have to go 1 300. to memory. And I can tell you ones where I may 2 be disclosed in. 3 Sure. 4 Q 5

And I don't think I have to tell A you the ones I've looked at, maybe they're not --

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Q Well, if you've written a report, I'd liked to know about it.

Okay. So Runner vs Toyota was a fire case. And I had an opinion there on the fuel system, specifically the location of the fuel filter.

Howard/Doyal vs. GM is a -- okay. That's -- you said fuel system, though. And that's a fire case not related to fuel system.

> We talked about documented reports. MR. BANTA: Dick?

THE WITNESS: Pardon me? Yeah, we talked about that already, though. He asked other than what we talked about, so...

MR. STOCKWELL: Yeah.

23 So we already mentioned Dick and 24 Winn. And let's see. Reports -- fires other 25 than these. I don't -- I can't think of

And I -- I may not even be disclosed in that case, so you may not find -it may have settled. I'm not sure how -- how far that case got.

Are you able to tell me the circumstances surrounding the accident in the Dick case? What happened?

9 A The Dick case, a car was being 10 driven in -- in Colorado up over some grades. And my opinion is that the power steering hose 12 failed and it released power steering fluid, 13 which was then ignited when the vehicle slowed down.

> I believe that Timber Dick realized he had a problem, was trying to -- trying to pull off in kind of a -- scary area. I didn't like being out there at the scene, either. That was -- and, you know, when he got down, slowed down to a certain speed, a fire erupted in the car.

Q Did the fuel tank catch on fire in that case?

A Well, ultimately, but it was strictly a result of the fire that started

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anything right offhand.

Okay. Have you offered any opinions in any cases concerning a fuel tank placed behind the rear axle, other than this case, of course?

No, I have not. Α

Have you offered any opinions critical of a fuel tank located over or forward of the rear axle?

And this would be -- there was a case with a Chrysler 300, and I don't recall if I -- I don't think I wrote a report on that case. But there was a fuel system issue of a tank forward of the rear axle that related to the fuel filler.

Q What was the issue with the fuel filler?

A It was -- you know, maybe -- maybe it wasn't the fuel. I'm trying to remember -it may have been -- it was the location of the fuel filler. It was susceptible to damage from a broken wheel.

23 MS. DeFILIPPO: What was the car 24 model that you said?

THE WITNESS: That was a Chrysler

1 elsewhere. I mean, the vehicle -- it was

2 comprehensive burning. I mean, here's the 3 thing. Bear tumbled down a 200-foot -- it was

4 almost a cliff. It was a -- something you

5 couldn't walk up. You know, it was -- it was 6

a -- the aftermath was a pretty horrible scene. 7 It ended up -- it was comprehensively burned,

but I had no criticisms of the fuel system in that vehicle.

Okay. Are you aware of any evidence in this case that the fuel filler hose separated from the fuel tank in the Kline vehicle?

A The state of the vehicle, the -it's difficult to determine. And I would -- it could be determined. I'd have to reinspect the vehicle. When I first looked at it, I -- I couldn't even find the hole in the frame rail that the fuel filler goes through. I think if you could locate that and determine where the tank would have ended up, you know, you could determine that.

I do believe that it came off, and my basis for that is more the test results. There's a Chrysler test where that particular

thing occurred. The FHWA test had the fuel filler hose torn off. And then the -- well, even in the accident, Peter Moody's testimony that the fire was immediate. You know, when the fuel filler hose comes off like that, you get an immediately forceful release of fuel. So my basis for those is more the testing and the design and what can happen.

But as far as your question on the actual car itself, I haven't actually -- you know, there's just not enough information, I think, there to determine conclusively what happened.

- 14 Q Okay. Have you seen any 15 photographs of the hole in the frame rail in 16 the Kline Jeep?
  - A I don't believe I have.
- Q Why weren't you able to see it at 19 your inspection?

A Well, the -- we didn't raise the vehicle up. We -- I think just the crush of the vehicle made it difficult to get to. And I believe I looked at the vehicle, you know, weeks after I was retained. And it was -- as I recall, it was more of a general inspection

the word "crashworthy"?

A Well, I can -- I have an understanding of what I think the word means.

Q Okay. What's that understanding?

A That the -- that's more with the defects. Earlier I said it's something that would cause somebody, you know, harm or injury in a vehicle crash.

Q Okay. What does a manufacturer have to do to prove out a defect before the vehicle is put into production?

A Well, you cannot -- well, trying to prove you have defects, I think you prove you have lack of defects.

Q That's what I meant. Prove out the defects. Sorry.

A Prove out. Oh, so like rule out a defect?

Q Yes.

A Okay. Well, there's a number of stages. I mean, obviously, you can -- you need to pass all the legislative rules. But beyond that, all the auto companies develop what I call just historical databases and testing, so through history, you know, cars have had

rather than a focused inspection.

I think with what I've learned looking at, you know, crash tests and a lot of information about the case, seeing different designs, you know, could I go back and find it now? Maybe. Maybe I could. It might not be that it's -- it may be that it's just where you can't see it. But I guess I'd like to take another look.

Q Okay.

A If I...

Q What is your definition of a vehicle defect?

A Well, I guess that's a pretty broad-reaching thing, and I haven't really thought much about defining a defect. But it's a -- you know, a general sense, something that would cause somebody, you know, harm, injury, or death in a vehicle.

You could also have defects that don't do that. You could have a defect that's just a customer satisfaction issue. The rattle or a squeak or some kind of characteristic of the vehicle, too.

Q Okay. Do you have a definition of

problems, they've devised tests to prevent those problems.

So a lot of the tests -- testing and, you know, the durability testing for all the manufacturers is historically based. It's over certain types of roads, certain types of miles, and, you know, those things contain the defects. And there's always new things that come up and new tests that get devised.

You know, you could probably look through the test libraries at each of the auto companies and find out, you know, this test was to prevent these types of failures.

I've always said there's no such thing as a perfect car. You can't identify -- there's just no way to test for every defect. So you have to -- you know, there's a reasonable amount of testing that needs to be done and could be done.

There's a lot of thought and judgment that has to go into these types of things. But, you know, when you identify a failure or defect on any of these tests, it's something that you really need to go address.

Q What is the reasonable amount of

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     testing that has to be done that you just
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Well, every manufacturer has their A own -- you know, their own library of tests. And they've developed over the years, and you know, some may actually be redundant because there's some tests that you just always pass, but it's -- it's more of a check the box, because, you know, we've had issues like this in the past.

Working with some of these new electric car manufacturers, we've had to put a lot of thought into the types of testing --

(Brief phone interruption.)

MS. DeFILIPPO: I'm sorry. Can we take a break?

MR. STOCKWELL: Absolutely. When we come back, she'll read the question and how far you got.

THE WITNESS: Okay. Yeah.

(Recess taken.) (Record read.)

22 23 -- that might apply strictly to an 24 electric car. So new tests -- and they develop

25 new tests all the time. improves. A lot of the 208 testing, as they've changed the regulations, the amount of tests you might want to run has mushroomed into a really large number of tests, and manufacturers are actually substituting some simulations for tests.

And as the simulation technology improves -- and provided you've done a really good validation of the simulation, so it's a -it has to be a blend of testing and simulation. You can actually use some simulations instead of tests.

The main thing is you have to certify that the vehicle is -- is safe from fuel leaks for 301. And the testing, there's the minimum testing, and then any other things you might want to do to insure you don't create any leaks.

Q Okay. All right. If we could take a look at your December 4th, 2009, preliminary report.

And if you look at page -- well, I don't have page numbers, but, one, two -- the third page, and there's Section 6. It says "Background."

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Okay. And you talked about legislative testing. Do you mean FMVSS, or are you referring to something else?

Yes, yes. FMVSS tests.

Tell me about how a vehicle passes the requirements of FMVSS 301. What does a vehicle have to do?

Well, it's actually a number of tests: Frontal, side, rear-end taps. And then there's -- those all have an aspect where you have to roll the vehicle on a test fixture to look for leaks.

Typically, those are combined with other types of tests. There's not a specific single 301 test. But typically on your -- for example, your 208 frontal crash tests, it's the same actual impact, so you can use that test, roll the vehicle, and certify your 301 compliance. So a lot of these tests are integrated into other tests.

Okay. When does a vehicle have to be re-certified? How many certification tests have to be done?

Well, it's all -- it's judgment. And it changes all the time as technology A Yes.

And if you look toward the bottom of that paragraph, there's a sentence that reads the following: "The door of the Jeep that Susan Morris Kline apparently tried to use for egress was jammed shut."

A Yes.

O How do you know that Mrs. Kline attempted to use the driver's side door for egress?

A I was actually --

MS. DeFILIPPO: Hold on. Objection. You didn't lay any foundation about what door, and then your second question had to do with -- you slid in the driver door.

MR. STOCKWELL: That's fair.

MS. DeFILIPPO: Are you talking about the driver door now, or are you talking about the door of the Jeep that she apparently tried to use was jammed?

BY MR. STOCKWELL:

Q Which door are you saying was jammed shut?

Yeah. In this -- the report's not specific enough, but the door I'm referring to

in that sentence is the passenger's side door.

- Q Okay. How do you know that she tried to use the passenger's side door for egress?
- A Her body was found on the passenger's side of the vehicle.

Q All right.

- A That, combined with the fact that there was a pretty massive opening in the structure of the vehicle on the left side, gave me the opinion that she was trying to -- she moved to the right to try to escape the fire that immediately came in the vehicle on her left side.
- Q Okay. Any facts, other than that, you relied upon?
  - A I think those are most of the facts.

Q Most or all of the facts?

A Well, if she's on the right side, and the fact that there was an easy access for fire on the left side, would -- were the two main things that led me to that opinion.

Q Were you able to rule out the possibility that she was thrown to the

feel that it's likely there was contact with
the tire. And if you have a vehicle -following a vehicle that hits a tire, it tends
to drive that into the vehicle downwards, not
upwards. So if there were vehicle-to-tire
contact, you know, the vehicle would tend to
get compressed, not raised up.

Q How many total impacts were there in this accident?

A My opinion is there was the initial impact of the two vehicles. We talked about -- actually, I did an analysis. I looked at separation, and my opinion is the vehicle separated. The FHWA tests have separation times of 200 milliseconds to 150 milliseconds, which if you -- is a matter of feet.

And in the Chrysler tests, which were granted a lower speed, but the separation occurs within six to ten feet. And the Kineticorp guys say that it's -- it's 30 feet to the Subaru.

So my opinion is the vehicles actually were separated by a fairly large distance, and then the Jeep hit the Subaru and was then struck again by the Toyota. So that

passenger's side seat as a result of the crash?

A Yeah. I did -- I did read that report and it -- yeah, it didn't make complete sense to me. It -- first of all, it assumes that she didn't have her seat belt on. And it just -- in general, my subjective feel for the dynamics would make it difficult for her to have been thrown over there.

Q What about the dynamics would have made it difficult for her to be thrown to the passenger's seat?

A Well, I don't agree with the 25-degree roll that happened. And yeah, it's just -- typically, it's very difficult to have a passenger thrown across a seat like that.

Q Why don't you agree with the 25-degree roll?

A Well, because when a -- and this is -- there's a number of conflicts in the defense reconstruction. They talk about the vehicle lifting, but they also talk about wheel gouges into the road, so that's kind of a conflict.

If you have a vehicle contacting -the way the structure deformed on the Jeep, I 1 would be three separate impacts.

Q Okay. What happened to the Jeep after the third impact?

A I think the third impact is the one that spun it a 180.

Q Okay. Is there anything that you learned, either through your vehicle inspection or your investigation of this case, that leads you to believe that Ms. Kline was wearing her seat belt?

A Historically, she was a seat belt user. I forget if I read that in some statement. Maybe from her husband?

Q Okay.

A But I got the impression that she was historically a seat belt user and that's -- really with the fire damage, that's about all that you can go by.

Q Okay. So there was no physical evidence that she had her seat belt on?

A None that I could find.

22 Q All right.

A None that I think anybody could

find.

Q Okay. Do you have any

	Hamoman		noot
			22 (Pages 82 to 85)
	.82		84
1	biomechanical engineering training?	1	you mixing up a blocker bracket and reinforcing
2	A No, I don't.	2	bracket? Because they're two things.
3	Q Moving further down Paragraph 8,	3	MR. STOCKWELL: I may be mixing
4	"Analysis and Discussion." The first full	4	them up.
5	sentence, what do you mean by "poor location"?	5	MS. DeFILIPPO: Okay. So why don't
6	A Well, as I've answered earlier,	6	we so my objection is to form and clarity.
7	the you know, generally there's nothing	7	MR. STOCKWELL: Okay.
8	wrong with the fuel tank in the rear, but it's	8	BY MR. STOCKWELL:
9	not my first choice. I think I would always	9	Q Why don't we back up for a second.
10	try to mount a tank forward of the rear axle.	10	Structure of frame rails. You're talking about
11	If you were mounting a tank rear of the rear	11	Estes's testimony, I assume?
12	axle, there's a number of things you need to	12	A Well, as far as the bracket that
13	insure, that the vehicle has good structure to	13	we've been calling the Estes bracket.
14	protect the tank.	14	Q Okay. What is the Estes bracket?
15	Q Okay. And that's where you say	15	A Well, it's basically just the left
16	sufficient protection, right?	16	side portion of a trailer hitch.
17	MS. DeFILIPPO: Objection to form.	17	Q Okay.
18	Q That's what you're talking about?	18	A So it's one component of the
19	A Yes, that's what I'm talking about,	19	trailer hitch. And when it's bolted to the
20	yes.	20	bottom of a frame rail, it helps to stabilize
21	Q Okay. What sufficient protection	21	and add a lot of structure to that rail.
22	do you mean with regard to this Jeep?	22	Q All right. And the Estes bracket,
23	A Well, in this Jeep, you know, a	23	what vehicles was that bracket installed on?
24	couple things. One, the structure of the rear	24	A That was '97 and later.
25	frame rails doesn't absorb energy in a	25	Q Okay. Have you done any scientific
	83		85
1	really a proper manner to protect the tank.	1	analysis of the structure of the '96 Jeep Grand
2	And there's no localized protection. The fact	2	Cherokee frame rails?
3	that the tank the tank could be exposed to	3	A I have not done any structural
4.	an impact, that it should have some some	4	analysis. I've just done comparative analysis
5	local protection, such as a skid plate as we	5	of the rail itself versus the rail with the
6	talked about in this case.	6	trailer hitch or bracket attached to it.
7	MR. STOCKWELL: Let me stop you for	7	Q All right. And tell me about the
8	a second. I want to talk with Bob before he	8	differences. What have you observed?
9	goes. Let's take a five-minute break.	9	A The when you bolt on the bracket
10	(Recess taken.)	10	or the hitch, it across that span, the frame
11	(Mr. Banta leaves.)	11	rail doesn't bend. It stays straight and
12	BY MR. STOCKWELL:	12	more stable.
13	Q All right. In either of your	13	Without the bracket, the frame rail
14	reports, did you address the structure of the	14	can bend and it can bend like like it
15	rear frame rail?	15	typically bends upwards. So the bending moment
16	A I think in the vein that the hitch	16	is not providing you, you know, good protection

I think in the vein that the hitch 16 17 or that -- what we've called that "Estes" or blocker bracket, and improves the structure of 18 19 the rear rail. And I may have implied that 20 rather than stated it, though. The blocker bracket, that was 21 22 installed on '97 Jeep Grand Cherokees, correct? 23 Yeah, I think that's correct. A 24 MS. DeFILIPPO: Wait a minute.

What are you calling a blocker bracket? Are

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without the bracket, the frame rail
can bend and it can bend like -- like it
typically bends upwards. So the bending moment
is not providing you, you know, good protection
to the tank. And it also -- the main point is
the -- when that rail bends up, it takes the
fuel filler with it and you have a lot of
relative motion between the fuel filler and the
tank.

And that's one of the things in
Chrysler's design criteria. I think in Jimmy

And that's one of the things in Chrysler's design criteria, I think in Jimmy Fishback's report, that you have to be cognizant of relative motion between the tank

and the structure. And without the bracket or
 the hitch, there's a lot of relative motion.
 Where along the left rear frame

Q Where along the left rear frame rail was the Kline -- where was it bent in the Kline Jeep?

A Well, it was bent at a number of places, and it was hard to get at to actually determine where it was bent. But it was, I'd say, more -- it was bent upwards near the front and downwards near the back, so more like a Z-shaped bend.

Q Where in the back?

A Well, the back part's hard to see just because the rest of the car is crushed around it.

Q Can you tell me how far away it was bent downward from the hole where the fuel filler hose passed through?

A No. Not as I sit here right now, I can't.

Q Did you take any photographs at your inspection?

A Yes, I did.

Q Did you take any videos?

25 A No.

Q If I am, you could tell me. But do you understand my question?

A I do. And I think it's a little bit mischaracterized.

Q Okay.

A Because you -- if you have a trailer hitch, then the Estes bracket is redundant.

Q Okay.

A So having a bracket or the hitch fulfills one function, and having a skid plate provides additional protection for any localized impact.

And I would prefer the hitch rather than the bracket because the bracket is kind of just the minimum you want on that one side frame rail to help stabilize it. If you have the trailer hitch, it's a much more massive device and it actually connects both frame rails. So that gives you even more stability by sharing the load across the vehicle.

Q Okay. If the Kline vehicle was equipped with a trailer hitch and a skid plate, would you find that vehicle to be crashworthy, in your opinion?

Q All right. So as far as protection goes, you've mentioned the skid plate, you've mentioned the Estes bracket. Is there anything else?

A Well, the trailer hitch would also have improved the situation. We were talking just protection and not -- not all the alternative designs?

Q Right now I'm talking about protection for the design of the fuel tank in the Kline Jeep Grand Cherokee.

So I think you've said the location itself is not necessarily a problem. It needs the protection of the Estes bracket, the skid plate, and the trailer hitch?

MS. DeFILIPPO: Wait. Objection to form. I don't believe that's what he's saying.

MR. STOCKWELL: Well, let him answer the question. I'm not --

MS. DeFILIPPO: Well, I'm not telling him what to say. I'm objecting to form because you mischaracterized what he said.

MR. STOCKWELL: I don't think I

24 am.

BY MR. STOCKWELL:

A I feel that it would have performed a lot better; although, when you're talking crashworthy, that goes beyond the protection we were talking about. So we were talking protection.

If you move to crashworthy, I would still have liked to have seen the fuel filler routing that Chrysler went to for the '99 through 2004 vehicles.

And that change was -- that change was made in '99 to the fuel filler routing, and you know, caused a substantial reduction in the incident rate of fires in rear impact collisions.

So I think that's really good historical evidence that that design change was a good improvement. I don't think it was enough.

So that rear-mounted tank, I think, should have rerouted fuel filler, it should have a bracket or hitch, and it should have a skid plate.

It's just -- I can't say the relative contributions of each of those. Does one of them fix the problem, half the problem,

			24 (1ages 50 co 55)
	90		92
1	or three-quarters of it? It's hard to say.	1	it still be quite as good? I just I can't
2	But they all they all have a definite	2	answer that, so I think that's I would
3	improvement. You put them all together and	3	like to see a skid plate, hitch or bracket, and
4	there's a lot of synergy.	4	rerouting of the hose, too.
5	Q Okay. If Chrysler made the Kline	5	Q Okay. And if it had those things,
6	vehicle with the filler hose under the frame	6	would you write a report saying that it was
7	rail and installed a trailer hitch and a skid	7	defectively designed?
8	plate, would you have a problem with them	8	A Well, if there were some type of
9	putting that vehicle on the road?	9	
10	MS. DeFILIPPO: Wait a minute. Are	10	crash where it should have performed well and
11			didn't, then, you know, it would depend on, you
12	you asking him whether he'd still have a	11	know, analyzing that.
	problem with the location of the tank?	12	Q So it's crash dependent whether a
13	MR. STOCKWELL: The vehicle itself	13	vehicle's defectively designed?
14	and everything.	14	A Well, in certain cases, if you have
15	MS. DeFILIPPO: Wait.	15	a type of crash where a car should have
16	Q Do you understand the question	16	performed well and it didn't, then I guess you
17	or	17	would say it's crash dependent.
18	MS. DeFILIPPO: I have an objection	18	Q Okay. And you said you looked at
19	to the form.	19	the Center For Auto Safety's website. Do you
20	Q not?	20	know what kind of recall the Center For Auto
21	A Yeah.	21	Safety is asking the government for on this
22	MS. DeFILIPPO: If you're focusing	22	Jeep Grand Cherokee?
23	on those fixes, then I'm okay with the form.	23	A Yeah, they're asking for a recall.
24	I'm trying not to say anything.	24	I'm not sure I recall specifically which
25	MR. STOCKWELL: Yeah, that's what	25	components.
	91		93
1	I'm focusing on.	1	Q Are they asking them to take all
2	MS. DeFILIPPO: But if you're	2	two million vehicles off the road, or are they
3	saying that then his opinion wouldn't have	3	asking for something else?
4	anything to do with the location of the tank,	4	A I think they asked for a recall,
5	then I have a problem with the form.	5	but I don't recall reading what their specific
6	MR. STOCKWELL: Well, just listen	6	recommendation was or if they even had one.
7	carefully to my question.	7	Q Did you look at Clarence Ditlow's
8	BY MR. STOCKWELL:	8	deposition transcript?
9	Q If the Kline vehicle, the fuel	9	A No, I have not.
10	I'll change the question the fuel filler	10	Q Did you know he was deposed in this
11	hose was not routed through the frame rail, but	11	case?
12	it was installed, the fuel tank, there was a	12	A Yes, I did.
13	trailer hitch and there was a skid plate	13	Q Do you have a copy of the
14	installed on the Kline vehicle, would you have	14	transcript?
15	a problem with Chrysler putting that vehicle on	15	A No, I don't. I think that was just
16	the road?	16	a recent deposition.
17	A I mean, I would still like to see	17	
18		18	
19	the routing changed and perhaps even the fuel filler having more of a section of steel with	19	
20		1	Q It wasn't too long ago.
1	it than rubber. It's mostly a rubber hose.	20	MS. DeFILIPPO: Are these mine?
21	And that's kind of that's my	21	Yours?
1	kitchen sink approach, that those are all	ŧ	THE WITNESS: That one's yours.
23	things that I feel contribute greatly to	23	(Discussion held off the record.)
24	improving the safety.	24	Q And on the bottom of that page,
25	If you left one of those off, would	25	again, in the section "fuel tank" are you

			25 (Pages 94 to 97)
	94		96
1	still there? All the way at the bottom?	1	Q Right.
2	MS. DeFILIPPO: Where are you now?	2	A as your speed. So the vehicle
3	MR. STOCKWELL: I'm sorry.	3	going 100 miles an hour
4	Section 8. "Analysis and discussion."	4	Q Right.
5	A Yes.	5	A hitting something going some
6	Q It says you're there?	6	other speed.
7	A Yeah.	7	Q Right.
8	Q It says, "The fuel tank was in a	8	MS. DeFILIPPO: At the time of the
9	poor location, did not have sufficient	9	impact, 100 miles an hour, is that what you
10	protection from this foreseeable type of	10	were
11	impact."	11	THE WITNESS: Yes.
12	What about this impact was	12	Q What about 80? Is that
13	foreseeable?	13	foreseeable?
14	MS. DeFILIPPO: I'm sorry. What	14	A Well, I guess, you know, all those
15	about this what?	15	are foreseeable, but maybe they're not all, you
16	MR. STOCKWELL: Impact was	16	know, reasonable.
17	foreseeable.	17	Q What do you mean "reasonable"?
18	A Well, let's see. It's one pretty	18	A Well, at some you know, at some
19	basic	19	point, the impact speed is going to cause some
20	MS. DeFILIPPO: Objection to the	20	other type of injury for the occupant. So
21	form, but you can answer it.	21	really, rather than the speeds and, you
22	A It's a pretty basic impact, getting	22	know, I could see where we're going. We're
23	rear ended.	23	going to get into, you know, this speed.
24	Q Okay. Is the speed foreseeable,	24	But to me, it's not necessarily the
25	too?	25	speeds. You have you have the impact mode,
	95		97
1	A I believe it is. It's a freeway	1	which is a straight rear impact.
2	speed. I mean, there's some yeah. I think	2	My judgment is that you have to
3	it's foreseeable.	3	look at the injuries of the person in the car
4	Q Would a 100-mile-an-hour rear-end	4	that I mean, assuming we're talking about a
5	impact be foreseeable?	5	fire. So the person in the car had suffered
6	A I think at 100, you're probably	6	some type of serious orthopedic injury, then
7	exceeding the range of foreseeable.	7	the fire should not should not have caused
8	Q All right. What about a	8	their injury or death.
9	90-mile-an-hour rear-end impact? Would that be	9	So if it was a car that actually
10	foreseeable?	10	can be hit at 100 miles an hour and the
11	A I'd probably say probably not.	11	occupants are fine, then a fire's a problem.
12	Q How about 80?	12	Q Okay. I just want to make sure I'm
13	MS. DeFILIPPO: Are we talking	13	clear, though. When you say "foreseeable type
14	about closing speeds or vehicle traveling	14	of impact," you're talking about a rear-end
15	speeds?	15	collision, in general?
16	MR. STOCKWELL: Impact speed.	16	A Correct.
17	MS. DeFILIPPO: So closing speed.	17	Q All right. Is a rear-end collision
18	You're talking about closing speed? The speed	18	at 70 miles an hour capable of causing death to
19	that one vehicle hits another	19	the occupant of the vehicle?
20	MR. STOCKWELL: Yes.	20	A Typically, if a car car no, I
21	MS. DeFILIPPO: at the time of	21	would say you should survive a 70-mile-an-hour
22	impact?	22	impact.
23	MR. STOCKWELL: Yes.	23	Q Is a 70-mile-an-hour impact capable
24	A I was assuming the speed of the	24	of causing severe injury to the occupant?
25	striking vehicle	25	A If it does, then I would suspect

			26 (Pages 98 to 101)
-	98		100
1	there was some other defect in the vehicle.	1	what his answer
2	Q Okay. So then a 70-mile-per-hour	2	MR. STOCKWELL: Well, let him
3	rear-end impact should not cause severe injury	3	answer it.
4	to the occupants; is that what you're saying?	4	MS. DeFILIPPO: Well, but he did.
5	A That's my belief. And also, in	5	MR. STOCKWELL: No.
6	this case, I think that was the case. I don't	6	MS. DeFILIPPO: The record will
7	think that Mrs. Morris Kline had any orthopedic	7	reflect that he did.
8	injuries that would have caused her death.	8	MR. STOCKWELL: Well, let me
9	Q No, I get that that's your	9	MS. DeFILIPPO: So then I'm
10	position, but I want to be clear.	10	objecting to this. Asked and answered.
11	Are you saying that, in general, a	11	MR. STOCKWELL: Object and let him
12	70-mile-an-hour rear-end impact should not	12	answer the question, please.
13	cause severe injuries to any of the occupants?	13	MS. DeFILIPPO: Go ahead.
14	MS. DeFILIPPO: Wait a minute. He	14	A I think, like I said, if there are
15	didn't say that.	15	no other defects that may be causing an injury,
16	Q Well, I'll ask you, then.	16	then it's likely that you could survive a
17	MS. DeFILIPPO: No. Wait a minute.	17	70-mile-an-hour impact. It may not be in every
18	He already asked you were asking	18	car or every combination of vehicles.
19	MR. STOCKWELL: He can testify for	19	I think, you know, a Hyundai Accent
20	himself.	20	getting rear ended by a Dodge 4500 truck that's
21	MS. DeFILIPPO: Wait. You asked	21	going 70 miles an hour, you know, that may not
22	and he answered. He said without another	22	be survivable in the Hyundai for orthopedic
23	defect.	23	reasons.
24	MR. STOCKWELL: Okay.	24	Q Okay. All right. If I look
25	MS. DeFILIPPO: That's what he	25	through the flyers right now, do you think I
************	. 99	<b></b>	101
1	said.	1	could find cases where there was a
2	Q But you qualified your answer, so I	2	30-mile-an-hour rear-end impact and an occupant
3	just want to make sure you're clear.	3	either suffered a severe life-threatening
4	MS. DeFILIPPO: Well, you didn't	4	injury and/or died?
5	change the question, is what I'm saying.	5	A I believe you could, yes.
6	MR. STOCKWELL: I'm changing the	6	Q And if I researched accident
7	question right now.	7	statistics, I could probably find
8	MS. DeFILIPPO: Okay.	8	75-mile-an-hour rear-end collisions where the
9	MR. STOCKWELL: I'm going to change	9	occupant walked away?
10	the question right now.	10	A I think it's possible you could,
11	BY MR. STOCKWELL:	11	yes.
12	Q In a 70-mile-an-hour rear-end	12	Q I want to make sure I understand,
13	impact, is it your testimony that the occupants	13	on the next page, Subsection 2, "Vehicle
14	of that vehicle should not sustain a severe	14	Structure."
15	injury?	15	MR. GILL: Matt, are you still on
16	MS. DeFILIPPO: In any	16	the first preliminary report?
17	70-mile-an-hour impact?	17	MR. STOCKWELL: I'm still on his
18	MR. STOCKWELL: In any	18	first report, yeah.
19	70-mile-an-hour rear impact.	19	MR. GILL: Okay. Thank you.
20	MS. DeFILIPPO: Regardless of	20	Q Just let me know when you're done
21	defect?	21	reading that section.
22	MR. STOCKWELL: I'm not talking	22	A Okay.
23	about defects. I'm saying in general.	23	Q I want to make sure that I'm
24	MS. DeFILIPPO: Well, but he's	24	understanding. Are you saying that the opening
25	answered that it without a defect. That's	25	in the floor pan was a design or manufacturing

			27 (Pages 102 to 105)
	102		104
1	defect?	1	Structure," did you find any physical evidence
2	A Yes.	2	in the vehicle that the fire was more severe
3	Q Why do you say that?	3	closer to the driver's side door?
4	MS. DeFILIPPO: Wait a minute. Was	4	A I think since the vehicle was
5	your question the design or? What was your	5	pretty much totally consumed, that and it's
6	question?	6	not part of my analysis that I was doing.
7	MR. STOCKWELL: Yeah. The design	7	That's more of a cause-and-origin-type thing.
8	or.	8	So I didn't see any of that and I I'm not
9	MS. DeFILIPPO: "Or"?	9	sure I read that in anybody's report or not.
10	MR. STOCKWELL: Yeah.	10	Q The only reason I'm asking you is
11	MS. DeFILIPPO: I thought you said	11	because there's a line in here that says, "This
12	"designer."	12	makes sense as the fire was likely more severe
13	MR. STOCKWELL: Sorry.	13	close to the left door due to the massive
14	MS. DeFILIPPO: I didn't	14	opening in the structure in this area allowing
15	MR. STOCKWELL: Yeah. I said it	15	fire through."
16	quickly.	16	A Yeah. And it's just if you have
17	BY MR. STOCKWELL:	17	a great big hole near an area where there was a
18	Q Which one or both?	18	fuel leak and you're going to have a fire get
19	A You know, I didn't look at it close	19	in, and if you hadn't had the hole, the fire
20	enough to know which one. You know, if there	20	wouldn't get in. It's just kind of a general
21	were some missing spot welds, then it would be	21	statement, not taking a lot of analysis.
22	a manufacturing defect, or it possibly could	22	Q Were any of the windows broken as a
23	be, but I didn't actually count the welds. But	23	result of the impact on the Jeep Grand
24	it's, you know, either a design or	24	Cherokee?
25	manufacturing defect.	25	A Well, they're broken now. I'm not
our makes and or mayor	103		105
1	Q You're just not sure which one?	1	sure if they were broken at the time. I think
2	A I didn't analyze it close enough to	2	they probably weren't, or Susan might have been
3	determine that.	3	able to get out through a window, so
4	Q What caused the opening in the	4	Q Do you know if the rear windshield
5	floor pan?	5	was shattered as a result of the accident?
6	A Well, the poor structural	6	A I'd say the rear lift gate it's
7	performance of the vehicle. I think the way	7	likely it was shattered.
8	the frame rails failed and the load went into	8	Q Okay. Do you have any reason to
9	the vehicle, that it just caused an overload	9	believe that Susan Kline was conscious after
10	situation that failed the welds and opened up	10	the impact?
11	the hole.	11	A I believe she was. I don't think
12	MR. STOCKWELL: Could you repeat	12	the impact was as severe as the reconstructions
13	that answer to me, Regina?	13	are leading everybody to believe.
14	(Answer read.)	14	She didn't have any real orthopedic
15	Q Do you know if the welds failed?	15	injuries that would have indicated that she was
16	A Well, the failure was at the weld.	16	unconscious.
17	It appears that parent material pulled, so it's	17	Q How do you know she didn't have a
18	not a weld defect, but the failure is at the	18	concussion?
19	weld locations.	19	A Well, I'm there were no no
20	Q Okay. But it's not necessarily a	20	I don't believe there were any skull injuries
21	weld failure?	21	that she had.
22	A No. I don't believe it's a weld	22	Q Why do you say that?
23	failure.	23	A I it may have been something I
24	Q All right. And turning back to	24	read in the medical records.
25	this management again Danggraph 2 "Wahiala	25	O Do you think that sha there

Q Do you think that she -- there

this paragraph again, Paragraph 2, "Vehicle

			20 (14900 100 00 100)
	106		108
1	needs to be a fracture to the skull in order to	1	collision in that of range is a, you know,
2	have a concussion?	2	walk-away-type accident. It's typical not
3	A Probably not.	3	something that would cause an injury.
4	Q Do you have any	4	And also the fact that the other
5	(Discussion held off the record.)	5	vehicles in the injury the occupants, were
6	MR. STOCKWELL: Could you just go	6	fine. I think maybe Morgan-Alcala had some
7	back to read me back the answer he gave me	7	burns, but orthopedically they were fine. And
8	when I asked him if he has any reason to	8	so, in a general sense, they were subjected to
9	believe that she was conscious after impact.	9	similar types of loads and they were fine,
10	MS. DeFILIPPO: Boy, I missed that	10	though.
11	whole question.	11	So, yeah, those are my reasons for
12	(Record read:	12	thinking that she should not have really had
13	"Q Okay. Do you have any reason to	13	any injuries or unconsciousness.
14	believe that Susan Kline was conscious after	14	Q Okay. Let me go to the next
15	the impact?	15	paragraph, "Rear Underrun." If you could, just
16	"A I believe she was. I don't think	16	read through that real quick and let me know
17	the impact was as severe as the reconstructions	17	when you're done.
18	are leading everybody to believe.	18	A Okay.
19	She didn't have any real orthopedic	19	Q So you acknowledge here that the
20	injuries that would have indicated that she was	20	vehicle was designed with off-road
21	unconscious.")	21	considerations as primary factors which
22	BY MR. STOCKWELL:	22	resulted in a relatively high-mounted bumper.
23	Q Have you taken any steps to assess	23	Is there anything wrong with the
24	the magnitude of any forces that were imparted	24	high-mounted bumper?
25	on her body as a result of the accident?	25	A Not in itself, provided you've got
	107	1	109
1		1	
1 2	MS. DeFILIPPO: Magnitude of forces?	1 2	enough protection for the fuel tank.  O Are there does FMVSS have
3	MR. STOCKWELL: Yeah.	3	requirements for bumper heights?
4	MS. DeFILIPPO: Imparted on the	4	A Yes, they do.
5	body?	5	Q Did this vehicle comply with those
6	MR. STOCKWELL: I can take out	6	bumper height requirements?
7	"magnitude."	7	A I'm just assuming it did. I didn't
8	MS. DeFILIPPO: I don't know what	8	actually go measure it, but it's a
1 -	4 114	9	
10	you mean by that. BY MR. STOCKWELL:	10	Q Okay. A pretty basic thing that I'm
11		11	assuming the Chrysler guys got right.
12	Q Have you taken any steps to assess the forces that were exerted on the body as a	12	Q And you talk about egress in the
13	result of the accident?	13	next paragraph.
1	MS. DeFILIPPO: I don't	14	A Correct.
14		15	Q And you note that the passenger
16	Q if any? MS. DeFILIPPO: Could you repeat	16	door was jammed shut. And again, your
17	that?	17	statement there, that she would have had a
18		18	chance to exit the vehicle away from the fire
19	Q Have you taken any steps to assess the forces imparted upon Ms. Kline's body as a	19	if the door was not jammed, that's based again
20	result of the impact, if any?	20	on your assumption that she was conscious after
21	A What I've done is looked at the	21	impact?
22		22	A That's correct.
23	reconstructions, and I've got a feeling that	23	
24	the Delta Vs are overstated. I think perhaps the Delta Vs were more in the 20- to	24	, 1
		25	Severity," what is your source for the
25	25-miles-an-hour range. And the rear-end	123	statement? And I'm going to read it. "It is

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110
                                                                                                            112
      recognized and accepted that the impact" -- "on
                                                          1
 1
                                                                        It would surprise me, and I think
 2
                                                          2
      impact of a magnitude to cause a fire, should
                                                                it can still happen because there's no such
 3
      also be severe enough to cause life-threatening
                                                          3
                                                                thing as a perfect car. But I think that GM --
 4
      orthopedic injuries."
                                                           4
                                                                it's possible they may have lower rates of
 5
               That's really a GM philosophy.
                                                           5
                                                                fires in severe accidents.
 6
      General Motors operated that way from back in
                                                           6
                                                                         Are orthopedic injuries the leading
 7
      the '70s, I believe. And they're the only ones
                                                           7
                                                                cause of fatalities in automobiles?
 8
                                                           8
      who really stated that publicly. But I think
                                                                       MS. DeFILIPPO: If you know.
 9
                                                           9
      it's a, you know, kind of an underlying design
                                                                         Yeah, if you know. Every question
10
      philosophy overall for vehicles.
                                                         10
                                                                I ask you here is if you know.
11
               You didn't work for GM, did you?
                                                         11
          Q
                                                                         I -- I haven't studied the
12
          A
               Yes, I did. When I went to General
                                                         12
                                                                statistics on that, so I -- I don't know.
13
      Motors Institute, that -- part of that was
                                                         13
                                                                        MS. DeFILIPPO: Can we stop for a
14
      working as an engineer --
                                                         14
                                                                second?
                                                         15
15
          Q
               Okay.
                                                                        MR. STOCKWELL: Absolutely.
16
          A
               -- in a co-op program.
                                                         16
                                                                        (Discussion held off the record.)
17
          0
               Were there any publications that
                                                         17
                                                                        MR. STOCKWELL: I'm ready if you
      you're aware of at the time you were at General
18
                                                         18
                                                                guys are.
19
      Motors that stated that as a design principle?
                                                         19
                                                                        MS. DeFILIPPO: Go ahead.
20
                Well, I wasn't -- not when I was at
                                                         20
                                                                B MR. STOCKWELL:
21
       General Motors, but I came across a document
                                                         21
                                                                         Looking further down in Number 6,
                                                         22
22
      later which was a presentation from General
                                                                the Daimler-Chrysler crash test program
23
      Motors, a guy named Ron Elwell, and I've got
                                                         23
                                                                strategy?
                                                         24
24
       that presentation here.
                                                                   A
                                                                         Yes.
25
              And then this is also -- GM
                                                         25
                                                                   Q
                                                                         Are you aware of how much fuel
                                                   111
                                                                                                            113
                                                                leakage Chrysler will permit in their 301
  1
       stipulated in court, in a different fire case,
                                                           1
  2
                                                           2
       that that's their philosophy.
                                                                tests?
  3
                                                           3
                All right. Has any government,
                                                                        Well, their internal goal is 0,
       rule-making body adopted that standard?
  4
                                                           4
                                                                even though the 301 standard allows an ounce of
  5
               I don't believe so.
                                                           5
                                                                fuel under certain conditions. So Chrysler --
          A
  6
                                                           6
          Q
                Can you tell me a car that meets
                                                                as far as a leakage amount standpoint, they are
  7
       that standard?
                                                           7
                                                                more strict than the government standard.
  8
                                                           8
               I'd say quite a few cars meet that
                                                                        How much does the 301 or how much
          A
  9
                                                           9
                                                                did the 301 test -- how much fuel did the 301
       standard.
10
                                                          10
          Q
                Like what?
                                                                test permit to leak in the early to mid '90s?
                                                                        I would refer back to the standard.
11
                Well, I haven't seen every car in
                                                          11
12
       every crash situation, so... In fact, most of
                                                          12
                                                                I think it's one ounce per minute during the
13
       them that I look at are cars that don't meet
                                                          13
                                                                rollover test. It's -- but I think --
14
       that. And I'm sure there's plenty that do.
                                                          14
                                                                   Q
                                                                        And that's enough to cause a fire,
                                                                right?
15
                                                          15
               And I would suspect most GM cars
16
       do, since they have it as a, you know, written
                                                          16
                                                                   A
                                                                        Yes, it is.
17
       goal that they have within their company.
                                                          17
                                                                        Is there any written material in
18
                So would you be surprised, then, to
                                                          18
                                                                the industry published standards, authoritative
19
       find a GM -- an accident involving a GM vehicle
                                                          19
                                                                treatises, that state the FMVSS testing should
20
       where the occupant did not suffer significant
                                                          20
                                                                be conducted for the worst-case scenario?
21
       orthopedic injuries but still died because of a
                                                          21
                                                                       MS. DeFILIPPO: Is there any --
22
                                                          22
                                                                        I'm not sure I understand that
       fire?
                                                                   A
23
                                                          23
               MS. DeFILIPPO: Resay that again?
                                                                question.
24
       I didn't hear.
                                                          24
                                                                        MS. DeFILIPPO: Yeah, I didn't --
```

I'm objecting to form on that, also.

25

(Question read.)

```
114
                                                                                                         116
                                                         1
                                                              that report, at the top, where you say, "I have
 1
         Q
              Okay.
                                                         2
 2
         A
              Oh, sorry. You're referring to my
                                                              not had the opportunity to review the
 3
                                                         3
                                                              configuration used for FMVSS-301 certification
      terminology.
               Yeah, where you say -- I'll read it
                                                         4
                                                              testing or if all options were tested."
 4
         Q
                                                         5
 5
      to you to be fair.
                                                                     MS. DeFILIPPO: I'm sorry. Where
 6
                                                         6
                                                              are you reading?
         Α
               Yeah.
 7
              "For example, Ford runs a side
                                                         7
                                                                     MR. STOCKWELL: It's at the top of
                                                              the last page of the original report.
 8
      impact test with the moving barrier aligned
                                                         8
 9
      with the fuel filler to provide a worst-case
                                                         9
                                                                      Can you read it again? I'm not
                                                       10
10
                                                              sure I read it that way.
      scenario."
                                                       11
                                                                     MS. DeFILIPPO: Yeah, I don't think
11
             Is there any government standard
                                                       12
12
      that requires that?
                                                              you read -- yeah, I don't think you read what
13
                                                       13
                                                              you just said, but go ahead. Read it again.
              No. That's a Ford internal test
14
      where they -- they chose to do that to go above
                                                       14
                                                                     MR. STOCKWELL: Let me read it
      and beyond. I believe at some point that was a
                                                       15
                                                              again, and tell me if I'm -- am I looking at
15
16
      proposed update to 301 pretty early, back in
                                                       16
                                                              the same thing as you are?
                                                       17
                                                                     MS. DeFILIPPO: Well, that's why we
17
      the '80s, that they were -- wanted to run a
18
      side impact like this.
                                                       18
                                                              want you to read it again --
                                                       19
                                                                     MR. STOCKWELL: Okay.
19
               Uh-huh.
         Q
                                                       20
20
         A
               It didn't become part of the
                                                                     MS. DeFILIPPO: -- because we're on
                                                       21
21
      standard, but Ford adopted it as -- as their
                                                              a different page.
                                                       22
22
      own internal test.
                                                                     MR. STOCKWELL: "Since
                                                              discovery --"
                                                       23
23
               Okay. How long after the Pinto
      recall did they adopt this test?
                                                       24
                                                                      MS. DeFILIPPO: No, we're
24
                                                        25
               I -- that, I don't know. I know we
                                                              definitely on a different page.
25
                                                  115
                                                                                                         117
                                                                      THE WITNESS: No, no. He's -- he's
 1
      ran that when I was at Ford on the GT, but I
                                                         1
 2
      don't -- I don't know when they adopted it.
                                                         2
                                                              two sentences.
 3
               Do Ford or GM have the zero leakage
                                                         3
                                                                      MS. DeFILIPPO: Oh, you're going a
       requirement that Chrysler does in 301 testing?
                                                         4
                                                              couple sentences down. All right. Go ahead.
  4
 5
         A
               I'm not sure if they do or not.
                                                         5
                                                                      MR. STOCKWELL: Yeah.
  6
               Does any other manufacturer have
                                                         6
                                                                      MS. DeFILIPPO: All right.
         Q
                                                         7
 7
       the zero leakage requirement that Chrysler
                                                              BY MR. STOCKWELL:
       does, to your knowledge?
                                                         8
                                                                       "Since discovery is not complete in
 8
  9
               I haven't studied what every
                                                         9
                                                              this matter, I have not had the opportunity to
                                                        10
                                                              review the configuration used for FMVSS 301
10
       manufacturer does, so I -- I couldn't say.
               Okay. Were you involved in 301
                                                        11
                                                              certification testing or if all options were
11
12
       testing at either Ford or GM?
                                                        12
                                                              tested."
13
               I was involved at Ford and
                                                        13
                                                                      Do you know if FMVSS requires all
                                                              iterations of a vehicle to be tested?
14
       Chrysler, not GM.
                                                        14
15
               All right. And do you know, from
                                                        15
                                                                      MS. DeFILIPPO: But -- wait a
       your time at Ford, whether they had that zero
                                                        16
                                                              minute. Are you -- I don't know why -- I'm
16
                                                        17
                                                               objecting to the form because --
17
       leakage policy?
18
               I don't recall if that was the
                                                        18
                                                                      MR. STOCKWELL: Okay.
19
                                                        19
                                                                      MS. DeFILIPPO: -- I think the
       criteria. I would have held it up as -- as my
                                                        20
20
       program criteria.
                                                               context in which you just read this has to do
                                                               with Chrysler. But I -- you can ask him. I
21
              In other words, if we had any leaks
                                                        21
                                                              just -- I don't want to testify, but you -- you
22
       at all, I would have investigated it. But I
                                                        22
                                                        23
                                                               read the sentence and then you asked a
23
       don't recall if Ford had that as a strict
```

25

question, I didn't see it --

MR. STOCKWELL: Yeah. Well, I'm

24

25

standard internally or not.

Okay. Looking on the last page of

1 looking at the last part, "or if all options 2 were tested."   2				JI (lages III to III)
were tested."  Q Does FMVSS require all options to be tested?  A I don't know what he's asking.  But this – the context of this sentence was I hadn't looked at any Chrysler crash tests, so they were – they were distinction of the context of this the – so that's the discovery part of the the comment.  But veah, FMVSS does not address tests.  But veah, FMVSS does not address tests.  Q Okay. Well, they do – in some aspect doesn't FMNVS require that the tires on a test vehicle be pressurized to that recommended by the manufacturer?  A Yeah, but I would call that more of a test protocol – Q Okay.  A - just a test procedure protocol.  Not a definition of the configuration. I do believe that FMVSS 301 would – they intend that all vehicle configurations should pass.  Now, it's not practical to test every configuration.  Their implication is everything should pass.  Now, it's not practical to test every configuration.  But, for example, if the government tested a vehicle and it happened to be one that, say, a manufacturer hadn't tested and there was a failure, there would be some test, say, a manufacturer late in the pass and solve the manufacturer suits ship what vehicle it wants or something else?  MS. DeFILIPPO: Object.  A Don't –  MS. DeFILIPPO: Object.  A I don't rally know.  Q Okay. That's fair.  What have you done at – you say below that, "Alternative design for a fuel tank location in the "22 Explorer is a safer design than that of the Jeep Grand Cherokee?  A 'jet ta test procedure protocol.  Their implication is everything should pass.  Now, it's not practical to test every configuration.  But, for example, if the government tested a vehicle and it happened to be one that, say, a manufacturer late it sets and anot hanging too low in the vehicle. So it's a – it's just based on my engineering judgment that it's in a safer design than that of the safer design than th		118		120
were tested."  Q Does FMVSS require all options to be tested?  A I don't know what he's asking.  But this – the context of this sentence was I hadn't looked at any Chrysler crash tests, so they were – they were distinction and the properties of the sentence was I hadn't looked at any Chrysler crash tests, so they were – they were distinction and the properties of the sentence was I hadn't looked at any Chrysler crash tests, so they were – they were distinction and the properties of the sentence was I hadn't looked at any Chrysler crash tests, so they were – they were distinction and the properties of the sentence was I hadn't looked at any Chrysler crash tests, so they were – they were distinction and the properties of the sentence was I hadn't looked at any Chrysler crash tests, so they were – they over does the manufacturer wants or something else?  MS. DeFILIPPO: Object.  A Don't – Ms. DeFILIPPO: Object.  A I don't really know.  Q Okay. That's fair.  What have you done at – you say below that, "Alternative design for a fuel tank location in would have been to use the same as a 1992 Explorer; and the fuel tank location in the "92 Explorer is a safer design than that of the Jeep Grand Cherokee?  A - just a test procedure protocol.  Not a definition of the configuration. I do believe that FMVSS 301 would – they intend that all vehicle configurations should pass.  Now, it's not practical to test every configuration.  Their implication is everything should pass.  Now, it's not practical to test every configuration.  But, for example, if the government tested a vehicle and it happened to be one that, say, a manufacturer site situation.  A Total trailly were the test after does the same as a 1992 Explorer is a safer design than that of the Jeep Grand Cherokee?  A Pey lot limited the very configuration. I do believe that FMVSS 301 would – they intend that all vehicle configurations should pass.  Now, it's not practical to test every configuration.  But, for example, if the government tested a vehicle and it happened	1	looking at the last part "or if all options	1	random.
3   Selects a vehicle that they want to test after context of this sentence was I hadn't looked at any Chrysler crash tests, so they were — they were dis — they were produced after this report. But the — so that's the discovery part of the comment.		·		
be tested?  A I don't know what he's asking. But this — the context of this sentence was I hadn't looked at any Chrysler crash tests, so they were — they were dis — they were produced after this report. But the — so that's the discovery part of the comment.  But yeah, FMVSS does not address tab how a vehicle should be equipped for these tests.  O (a), Well, they do — in some a test vehicle be pressurized to that recommended by the manufacturer?  A Yeah, but I would call that more of a test vehicle be pressurized to that recommended by the manufacturer?  A Yeah, but I would call that more of a test protocol — 20 (D (a)).  Not a definition of the configuration. I do believe that FMVSS require that the tires on that all vehicle configurations should pass.  Now, it's not practical to test every configuration.  But, for example, if the government tested a vehicle and it happened to be one that, say, a manufacturer hadn't tested and there was a failure, there would be some experting should pass.  Now, it's not practical to test every configuration.  Q And NHTSA does — do they do random testing of vehicles to — as their way of checking on FMVSS 301 compliance?  A They do testing. I won't call it random. I think it's — it's targeted or specific. They have certain things they look at the higher volume vehicles, cars, that are a lot — sold a lot of that are — you know, they have a lot of exposure.  And then they love check the higher volume vehicles, cars, that are a lot — sold a lot of that are — you know, they have a lot of exposure.  A And then they have other things they interested in. So it's — I'd say it's the figure of a part of the axile. It's — it's more of my engineering judgment. I just want to be semantiacially correct.  A I don't really know.  Q Okay. That's fair.  What have you done at — you say below that, "Alternative Design. A much better alternative design for a fuel tank location on the test sake the field and options are in that vehicle it wants or something else?  A Joon't — What have you done to rea	1			
5 A I don't know what he's asking. 6 But this — the context of this sentence was I hadn't looked at any Chrysler crash tests, so they were — they were dis — they were produced after this report. But the — so that's the discovery part of the comment. 10 the — so that's the discovery part of the comment. 11 But yeah, FMVSS does not address how a vehicle should be equipped for these tests. 13 how a vehicle should be equipped for these tests. 14 tests. 15 Q Okay. Well, they do — in some aspect, doesn't FMVSS require that the tires on a test vehicle be pressurized to that recommended by the manufacturer? 16 A Yeah, but I would call that more of a test protocol— 17 Q Okay. 18 A — just a test procedure protocol. 19 Not a definition of the configuration. I do believe that FMVSS 301 would — they intend that all vehicle configurations should pass. 19 They don't — they have a thing that says, well, if your non-air-conditioned car doesn't pass, that's okay because you don't build many. 19 They don't — they have a thing that says, well, if your non-air-conditioned car doesn't pass, that's okay because you don't build many. 10 They don't — they have a thing that says, well, if your non-air-conditioned car doesn't pass, that's okay because you don't build many. 10 They don't — they have a thing that says, well, if your non-air-conditioned car doesn't pass, that all vehicle configuration. 10 But, for example, if the government tested a vehicle and it happened to be one that, say, a manufacturer hadn't tested and there was a failure, there would be some expectation to go back and correct that situation. 10 Q And NHTSA does — do they do random testing of vehicles to — as their way of checking on FMVSS 301 compliance? 11 A They don't — they have of the correct that situation. 12 They don't — they have a lot of checking on FMVSS 301 compliance? 18 A They do testing. I won't call it are — you know, they have a lot of that are — you know, they have a lot of that are — you know, they have a lot of that are — you know, they have a lot				
Gest the manufacturer just ship what vehicle it wasts or something else?		A-1-0-5/413 - 6/48/1/1-0-5-0-1/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4		
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8 crash tests, so they were – they were dis – they were produced after this report. But they we way the way the way the way the following the produced after this report. But they were so failure, and the tast they were so that say a manufacturer hadn't tested and there was a failure, there would be some expectation to go back and correct that situation.  9 And NHTSA does – do they do random testing of vehicles to – as their way of the axie, the world be some expectation to go back and correct that situation.  9 And NHTSA does – do they do random testing of vehicles to – as their way of the were yelicles, cars, that are a lot – sold a lot of that are – you know, they have a lot of exposure.  And then they have a thing they look at the higher volume vehicles, cars, that are a lot – sold a lot of that are – you know, they have a lot of exposure.  And then they have other things they look at the higher volume vehicles, cars, that are a lot – sold a lot of exposure.  And then they have other things they look at the higher volume vehicles, cars, that are a lot – sold a lot of exposure.  And then they have other things they look at the ripe of the experience in the first present of the produced tha			7	
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the — so that's the discovery part of the comment.  But yeah, FMVSS does not address how a vehicle should be equipped for these tests.  O Okay. Well, they do — in some aspect, doesn't FMVSS require that the tires on a test vehicle be pressurized to that recommended by the manufacturer?  A Yeah, but I would call that more of a test protocol—21 Q Okay.  A — just a test procedure protocol. Not a definition of the configuration. I do believe that FMVSS 301 would — they intend that all vehicle configurations should pass.  They don't — they have a thing that says, well, if your non-air-conditioned car doesn't spass, that's okay because you don't build many. Their implication is everything should pass.  They don't — they have a thing that says, well, if your non-air-conditioned car doesn't spass, that's okay because you don't build many. Their implication is everything should pass.  They don't — they have a thing that says, well, if your non-air-conditioned car doesn't spass, that's okay because you don't build many. Their implication is everything should pass.  They don't — they have a thing that says, well, if your non-air-conditioned car doesn't spass, that's okay because you don't build many. Their implication is the visual manual to the fuel tank location would have been to use the same as a 1992 Explorer is a safer design for a fuel tank location in the '92 Explorer.'  What have you done at — you say below that, "Alternative Design. A much better alternative design for a fuel tank location in the '92 Explorer.'  What have you done to reach your conclusion that the fuel tank location in the '92 Explorer.'  What have you done to reach your conclusion that the fuel tank location in the fuel tank location in the '92 Explorer.'  What have you done to reach your conclusion that the fuel tank location in the '14 the fuel tank location in the '15 the fuel manual fuel to the fuel tank location in the '15 as safer design for a fuel tank location in the '15 as safer design for a fuel tank location in the '15 as safer desig			9	A Don't
11	1		10	MS. DeFILIPPO: Object.
12 But yeah, FMVSS does not address 13 how a vehicle should be equipped for these 14 tests. 15 Q Okay. Well, they do — in some 16 aspect, doesn't FMVSS require that the tires on 17 a test vehicle be pressurized to that 18 recommended by the manufacturer? 19 A Yeah, but I would call that more of 20 a test protocol — 21 Q Okay. 21 A — just a test procedure protocol. 22 A A — just a test procedure protocol. 23 Not a definition of the configuration. I do 24 believe that FMVSS 301 would — they intend 25 that all vehicle configurations should pass. 26 well, if your non-air-conditioned car doesn't 27 pass, that's okay because you don't build many. 28 Their implication is everything should pass. 29 Now, it's not practical to test every 20 configuration. 30 Q And NHTSA does — do they do random 11 tested a vehicle and it happened to be one 11 tested a vehicle sto — as their way of 21 checking or FMVSS 301 compliance? 22 A They do testing. I won't call it 23 random. I think it's — it's targeted or 24 that are — you know, they have a lot of 25 that are — you know, they have a lot of 26 exposure. 27 A require that the tires on 16 A They do testing. I won't call it 28 random. I think it's — it's targeted or 29 vehicles, cars, that are a lot — sold a lot of 20 that are — you know, they have a lot of 21 exposure. 22 A rejust inspected Explorers, and 23 the tank they use is — it's in a safer 24 location. It's forward of the axle. It's — 25 it's a — it's just based on my engineering judgment. 26 it's a — it's just based on my engineering judgment. 27 ITIE WITNESS: Yeah. And based on 28 auggestion about form? You're talking about 29 your engineering opinion? 20 THE WITNESS: Yes, it's my opinion 21 as a — 22 ITIE WITNESS: Yes, it's my opinion 23 as a — 24 ITIE WITNESS: Yes. 25 ITIE WITNESS: Yes. 26 And then they have other things 27 THE WITNESS: Yes. 28 And then they have other things 29 And then they have other things 29 And then they have other things 20 And then they have other things 21 And the Explorer is a safer design than	1	- n	11	A I don't really know.
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124 1 probably other vehicles that have tanks that 2 are in similar locations. 3 BY MR. STOCKWELL: 4 Q Okay. And have you done anything, 5 other than what you've testified to, to make 6 your assessment? Is there anything other than 7 your engineering opinion? 8 A Well, there's also the - it was 9 even subsequent - at the time of this report, 10 no. But subsequently, there have been the 11 tests that have been run by the Federal Highway 12 Administration where they rear impacted 13 Explorers at 70, 75 miles an hour, and 14 they performed fine. 15 Q Okay. We'll get to that in a 16 minute. 17 Anything else since this report? 18 A For this specifically, no. 19 Q No? 20 Were you at the FHA tests for the 17 Anything else since this report? 21 A No, I was not. 22 Joke and the reports that were generated as a 23 result of those tests? 24 A l's seen the information. I was 24 aware that the tests were being run, 25 and actually made a request to be there, but 26 they there was a - they didn't want any 27 plaintif's experts to be at the test, just to 28 make them — I guess I didn't have 29 Okay. 4 It's the Karco tests I'm speaking 6 of. Thanks for clarifying that. 9 Q No problem.  Have you done anything to determine 4 whether a skid plate would have protected the 6 fiel tank in this accident? 4 It's pust obtained a malysis. 4 A I's est and the skid plate 4 A I's est at the the skid plate 5 Q Okay. 5 Q Okay. 5 A I's the Karco tests I'm take 5 Q Okay. 6 Okay. 6 Okay. 7 A I's the Karco tests I'm speaking 6 Of. Thanks for clarifying that. 9 Q Okay. 10 A I's the Karco tests I'm speaking 11 the skid report a skid plate would have protected the 12 the would have protected the fiel tank in this accident? 18 A I've seen the information. I was 19 Q No? 10 Were you at the FHA tests for the 10 to be there? 11 A I've seen the information. I was 11 and actually made a request to be there, but 12 they there was a — they didn't want any 13 plaintif's experts to be at the test, just to 14 Q Okay. 15 A Well, through — well, either Angel 16				JZ (Fages 122 to 123)
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	1		1	
25 Q Okay. 25 tests, and you can combine all the information	1			
	25	Q Okay.	25	tests, and you can combine all the information

			33 (14ges 120 es 125)
	126		128
1	and make deductions, but there hasn't been a	1	A Yes.
2	specific test that shows this you know, an	2	Q And you make reference that the
3	actual, this-is-what-happened test. I don't	3	trailer hitch made contact with the fuel tank?
4	believe that's occurred.	4	A Correct.
5	Q All right. Why don't we jump to	5	Q Does that mean that the test did
6	your next report? And I know the way I'm doing	6	not pass?
7	this is a little odd, but I've reviewed your	7	A No, it did not.
8	first report, then I made notes. And then when	8	Q The test did not pass?
9	I got your next report	9	A No. I
10	A Okay.	10	Q Or the test did pass?
11	Q I made notes. So I'm going to	11	A The test did pass.
12	go back to the egress section, which is on	12	Q Okay. And you're commenting on the
13	Page 4.	13	fact that the trailer hitch
14	And you say, "It is important that	14	A I just noted contact.
15	occupant egress is maintained in all crash	15	Q Okay.
16	situations. In this case the passenger door	16	A It was noted in the test report.
17	was jammed shut. Had it not been jammed, Susan	17	It doesn't you know, because of the criteria
18	would have been able to exit the vehicle away	18	of 301, it doesn't denote it as a failure. I
19	from the fire."	19	did note here that Bob Banta, in his prior
20	Is it a surprise to you that the	20	deposition, states that would have been a
21	passenger's door was jammed shut?	21	concern for him.
22	MS. DeFILIPPO: Wait a minute.	22	Q Right.
23	Object to the form. What about surprise has	23	A In other words, he I'm assuming
24	anything to do with the law? What	24	if he were the chief engineer of the vehicle,
25	MR. STOCKWELL: Well, I don't have	25	he would have thought, Gee, I don't like that.
Web-1-11-11-11-11-11-11-11-11-11-11-11-11-	127		129
1	to ask him just about the law.	1	Let's try to fix that. But that's a subjective
2	MS. DeFILIPPO: I'm objecting to	2	thing, not a legislative thing.
3	your use of the term "surprise." I'm objecting	3	Q Okay. We agree, though, that the
4	to the form and	4	Kline vehicle didn't have a trailer hitch
5	MR. STOCKWELL: That's fine.	5	equipped, right?
6	MS. DeFILIPPO: your use of the	6	A That's correct.
7	term "surprise."	7	Q You talk about Test 4561. Tell me
8	BY MR. STOCKWELL:	8	why the fact that the prop shaft was one inch
9	Q Do you understand the question?	9	short makes a difference in this crash test.
10	You made the statement, so I'm asking you.	10	A Well, the fuel tank actually, you
11	MS. DeFILIPPO: Wait. You want to	11	know, gets compressed between the rear bumper
12	know if he's surprised?	12	and the rear axle. So it's in the load path,
13	MR. STOCKWELL: Yeah.	13	getting depressed.
14	MS. DeFILIPPO: Were you surprised?	14	And a shorter prop shaft would
15	Q Does it surprise you that the	15	allow the rear axle to move forward further and
16	passenger's door was jammed shut in this	16	therefore, it would relieve some of the
17	accident?	17	compression on the tank.
18	A No. It was just a fact that I	18	Q How much further would it move?
19	noted.	19	A Well, you would think an inch if it
20	Q Okay. That's all that I wanted to	20	was an inch short.
21	understand.	21	Q The prop shaft was still connected
22	FMVSS certification tests, which	22	to the transmission, right?
23	are at the bottom of Page 4, Paragraph 7.	23	A Yes, it was.
24	A Yeah.	24	Q Have you looked at the photographs
25	Q You talk about Test 4472?	25	of that crash test?

			34 (Pages 130 to 133)
	130		132
1	A Yes, I have.	1	describe the whole thing.
2	Q And the other part of the prop	2	Q As you can see, I have no technical
3	shaft was connected to what? The axle?	3	background.
4	A Rear axle, yes.	4	A The rear axle is supported by
5	Q Is there anything else in the	5	control arms or links, as they may be called,
6	vehicle that supports the rear axle?	6	and those provide the control the axle for
7	A Yeah, there's	7	its purpose of suspension and drive.
8	MS. DeFILIPPO: Anything wait a	8	Those arms have rubber bushings in them, so
9	minute. Anything else other than what?	9	they have a fair amount of freedom to move.
10	MR. STOCKWELL: Than the prop	10	The prop shaft isn't supporting the
11	shaft.	11	axle, but at the point at some point of
12	A Yeah.	12	forward axle movement, the prop shaft would
13	MS. DeFILIPPO: What	13	stop or limit the axle movement. And
14	MR. GILL: That assumes	14	whereas the control arms, with their rubber
15	MR. STOCKWELL: Yeah, you're right.	15	bushings, allow more movement than the prop
16	I'll ask the question again. Fine.	16	shaft.
17	BY MR. STOCKWELL:	17	So if the prop shaft's shorter, the
18	Q Does the prop shaft support the	18	rear axle could move further, even given the
19	rear axle?	19	constraints of the rubber bushings of the
20	A It does not support the rear axle.	20	control arms.
21	Q Oh, okay. What does support the	21	MR. STOCKWELL: Can you mark this?
22	rear axle?	22	(Exhibit D-2, Photograph, is marked
23	A The control arms.	23	for identification.)
24	MS. DeFILIPPO: Can I suggest as an	24	Q Let me show you what's been marked
25	instruction that I understand you're trying	25	as Exhibit D-2. And just take a look and let
23		120	
	131		133
1	to answer what you think the question he is	1	me know when you're done looking at the
2	asking you, but you have to answer the full	2	photograph.
3	if the full question doesn't make sense. Do	3	A Sure.
4	you understand what I'm saying?	4	Q Do you know what that picture is?
5	If he says to you, "What else?"	5	A Yeah. This is the post-crash
6	That's like saying, "When did you stop beating	6	picture of the 4561 test.
7	your wife?"	7	Q Okay. Can you circle for me, using
8	If the prop shaft doesn't support	8	my pen or your pen, where the prop shaft
9	whatever he wants it to support and you answer	9	connects with the rear axle?
10	the latter part of the question, it's the	10	A (Witness indicates.)
11	same it's the same thing.	11	Q Okay. And can you show me where
12	THE WITNESS: Yeah. Okay.	12	the control arms are that you were referencing
13	MS. DeFILIPPO: Right? I'm only	13	before?
14	indicating as an instruction, if a portion of	14	A (Witness indicates.)
15	the question isn't right, you can't really	15	Q All right. So you've circled one
16	answer the full question, even though you think	16	on the left and one on the right?
17	that's what the questioner is saying.	17	A Yeah. And I believe there's two
18	BY MR. STOCKWELL:	18	upper ones that are a little harder to see.
19	Q I think what you meant to say	19	Q Okay. And you've circled those on
20	and correct me if I'm wrong is the prop	20	the left and the right side as well?
21	shaft provides resistance to the rear axle?	21	A Correct.
22	A Well, you want me to give a	22	Q Okay. All right. Thanks.
23	complete answer then?	23	THE WITNESS: You want this back?
24	Q Yeah.	24	MR. STOCKWELL: Yeah, I'm done with
25	A I'll describe the whole I'll	25	this.

			33 (Pages 134 to 137)
	134		136
1	(Discussion held off the record.)	1	to whether the presence or absence of a false
2	Q What is your understanding as to	2	spare tire in the rear of the Kline vehicle
3	what a validation test is?	3	would have made a difference in this accident?
4	A A validation test is to confirm the	4	A As far as specific analysis, no.
5	design.	5	What I did was review all the Chrysler crash
6	Q To what?	6	tests just to anyone that had a passing
7	A Confirm the design performs as	7	result had a full-size spare. I believe there
8	intended.	8	was a there was only one test identified
9	Q And Chrysler did validation tests?	9	that had a compact spare, which was did not
10	A Yes, they did.	10	pass the test.
11	Q If the validation tests fails,	11	And then in some early testing,
12	what, if anything, is the manufacturer supposed	12	they had comments about spare tire brackets
13	to do?	13	having separated or failed. And there seemed
14	A Supposed to do from whose aspect?	14	to be some indication they did design changes
15	Q From the manufacturer's	15	to make sure that didn't happen. And so
16	perspective.	16	that's it's just an indication where the
17	MS. DeFILIPPO: From an engineering	17	spare tire is an integral part of the load path
18	point of view, right?	18	of this test.
19	A Okay. It depends on if	19	
20	MS. DeFILIPPO: I mean, you're not	20	
21		21	to determine whether the presence of a full
22	asking him for government standards now.	22	spare tire played any role in connection with
23	MR. STOCKWELL: True. Yeah, yeah.	23	the VC tests?
24	MS. DeFILIPPO: You're asking	24	A You know, looking at the videos,
25	engineering standards.	25	it's pretty apparent to me that the full-size
23	A Yeah. I guess it depends on if	23	spare is is pretty important in the
	135		137
1	it's a manufacturer like Mercedes or a	1	performance of this vehicle in this in that
2	manufacturer like Kia. They might do different	2	test.
3	things.	3	Q How so?
4	Q Sure. Would you expect that the	4	A What it's doing is taking some of
5	manufacturer would take steps to fix whatever	5	the load off of that lower frame rail, which is
6	the problem was that caused the test to fail?	6	the one that the fuel filler goes through. And
7	A Yeah. Validation tests, or even	7	doing that provides more stability to that
8	development tests, if you have failures, they	8	lower rail
9	should be addressed.	9	Q Okay.
10	Q Okay. But FMVSS doesn't say that	10	A and gives it a chance to perform
11	that vehicle has to be taken off the road or	11	better.
12	recalled, do they?	12	Q And you were able to determine that
13	A Well, likely, validation tests, the	13	from watching the videos of the crash tests?
14	vehicle may not even be on the road at that	14	MS. DeFILIPPO: Wait a minute.
15	point.	15	Objection to form. Are you limiting him to
16	Q Okay. In other words, they may use	16	just that?
17	prototype parts, right, in a validation test?	17	MR. STOCKWELL: No.
18	MS. DeFILIPPO: Objection to form.	18	MS. DeFILIPPO: The videos?
19	A Validation tests may have prototype	19	MR. STOCKWELL: No.
20	parts, yes.	20	MS. DeFILIPPO: You're just saying
21	Q And they may retrofit vehicles?	21	as one of the things?
22	A Vehicles can be retrofitted, sure.	22	MR. STOCKWELL: Yeah.
23	And again, that may vary from manufacturer to	23	MS. DeFILIPPO: Okay.
24	manufacturer on their policies for that.	24	MR. STOCKWELL: Yeah.
25	Q Okay. Did you do any analysis as	25	BY MR. STOCKWELL:

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1 Were you able to -- strike that. Q 2 Let's start again. 3 MR. STOCKWELL: Read back the last 4 question I asked him. 5 MS. DeFILIPPO: Well, read back the 6 question and the answer, and then ask him the 7 next question. 8 MR. STOCKWELL: Yeah. 9 (Record read.) 10 Were you able to determine that, in 11 part, by watching the crash tests? 12 Yes, I was. And the crash tests --13 in -- you can't see the spare in all of the 14 tests, but in the ones where they had video 15 that you could see the spare, it's pretty clear 16 that it's -- it's engaged in the load path and 17 being loaded. 18 In what direction did the spare O 19 tire, the full spare tire, move in the crash 20 tests? 21 Well, it's in a longitudinal A 22 direction. 23 Q Okay. Does that mean up or down? 24 Fore and aft. A 25 Q I'm sorry?

you just need the one line. So you've got one line to a different type of fuel pressure regulator, and so there's no hot fuel being returned to the tank. So it helps emissions. It helps engine performance. It's -- it also saves costs because there's a -- not an extra line. And so that's -- that's how the system operates.

Now, Chrysler made this change at this time, and they -- they did not recertify the vehicle for this fuel system.

Now, in Michael Teets' deposition, I think he stated that it's something that they should have recertified for, but he also said he wasn't part of the meetings where a decision was made to -- to not recertify.

The fact that they made judgment that removing one line would not have affected the performance enough, and it's -- it's -- I think we discussed earlier, you know, does the government require every configuration of everything tested? Not necessarily. So Chrysler chose not to retest based based on this change.

Okay. Q

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Does that answer your question?

Q Yeah, it does.

And do you know if the returnless fuel system or the changes that are required to be made to the fuel tank assembly had anything to do with the Kline accident?

Well, you know, I'm not sure. I --I didn't have that in this report. But, you know, since reviewing -- looking at this -because they also had a -- another change for '97.

Now, they kept the returnless system, but I believe that they changed suppliers. And they claim they added that Estes bracket because of problems they had with that returnless system, that they had leaks and -- you know, you can see the tests where they had the leaks with that returnless system.

It does make me wonder if the prior supplier system would have had those same leaks and they just didn't discover that. So it's something I'd actually like to look into. I probably can't, because one thing in the discovery documents where there was a whole folder of engineering changes, it's just blank,

Fore and aft. There may be some kind of residual up and down, but the load is in a fore and aft manner.

Okay. I don't understand your Section 12 on Page 6, "Fuel system changes to the Jeep Grand Cherokee from '94 to '95 model year."

Could you please read it and explain to me what you mean?

Limited change to the fuel system and returnless system -- return system has a fuel line going from the tank up to the -- up to the engine, and then a line from the engine back to the tank. So fuel flows in a circle, so excess fuel is returned to the tank, okay? There's issues with that, because a lot of times the return fuel is hot and you get hot vapors in the tank and it creates issues.

And in the early '90s, returnless systems became popular and they were enabled by a type of return -- a type of fuel pressure regulator that could operate without bypassing fuel.

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A Okay? So it kind of deadheads. So

			37 (1ages 142 to 143)
	142		144
1	so we didn't I don't know. Maybe if it's	1	the test.
2	yours that's blank or mine, so	2	Q Do you know what they did to check
3	MS. DeFILIPPO: Nobody's been able	3	the fuel system of that Explorer post-crash?
4	to get to that yet.	4	A I'm not sure if they rolled it over
5	A So I really need to see, you know,	5	or not.
6	the engineering changes.	6	Q Are you looking
7	So I guess since I wrote the report	7	A I'm looking at the tests and in the
8	and have noticed that they have all these	8	70
9	issues with them and it's probably in Teets'	9	MS. DeFILIPPO: No. Let me just
10	or Zylik's depos. It wasn't until I read those	10	say, for the record, we all know this. In the
11	that I realized that maybe those problems	11	test this is what happened at Ditlow's. The
12	existed in '96, so	12	test cover page both say 70, but it's not true.
13	Q Okay.	13	It's a typo. When you ask for Freedom of
14	A Which would mean that their	14	Information Act from the federal government,
15	decision to not test was a wrong one.	15	they send you a cover page that both say 70,
16	Q Okay.	16	but inside, if you look, one was 70 and one was
17	A Those problems existed. But you'd	17	75. This is the 75.
18	have to look at the difference in the two	18	THE WITNESS: Yeah.
19	suppliers' systems. They're both returnless,	19	MR. STOCKWELL: Okay.
20	but they could be could be different so	20	MS. DeFILIPPO: So that's what's
21	Q Okay.	21	confusing when you hand the test results
22	A There could be something there. I	22	MR. STOCKWELL: That's right. I
23	just don't know at this time.	23	remember that.
24	(Discussion held off the record.)	24	MS. DeFILIPPO: And that happened
25	(Lunch recess taken at 1:44 p.m.)	25	in the Ditlow deposition, so I don't want
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	143		145
1		1	A Okay. So in the 75-mile-an-hour
2	(Deposition continues at 2:08 p.m.)	2	test, they had the fuel tank 75% full of water.
3	(Record read.)	3	So in the it's likely they would have seen
4	BY MR. STOCKWELL:	4	the effects of any apparent leak; however, I
5	Q All right. Number 14 on Page 6,	5	don't believe they rolled it over.
6	the Ford Explorer one at 70 miles an hour.	6	And then the 70-mile-an-hour test
7	That was you weren't there for the FHA test,	7	may not have even had anything in the fuel
8	right?	8	tank. So that's actually not fair to say this
9	A No, I was not.	9	test would have had the conclusion it wouldn't
10	Q Are you saying that because there	10	leak.
11	was one crash test at 70 miles an hour, that	11	So it's just one of these two tests
12	the Explorer is capable of sustaining a	12	that we can agree to leakage information out
13	rear-end impact at 70 miles an hour without any	13	of.
14	leakage?	14	Q Does the test at all, the one that
15	A It did in this test.	15	had the water in the tank, at all reference
16	Q All right. Are you saying, based	16	fuel leakage? Whether there was or wasn't fuel
17	on this one test you're basing your opinion on?	17	leakage?
18	A It was my assessment of this test	18	A Let's see.
19	that the Explorer sustained the impact in this	19	MS. DeFILIPPO: You can't look at
20	test without leaking.	20	the top.
21	Q Was the purpose of the test to	21	THE WITNESS: I was looking at the
22	assess the fuel system of the Ford Explorer?	22	dates.
23	A No. The test actually was part of	23	MS. DeFILIPPO: Oh, okay.
24	a program they were doing, I believe, to look	24	There's video on these tests, also,
25	at door entrapment, was the stated purpose of	25	I'm sure.
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146 148 1 1 A Yeah. It may be -- it may not in my reference document they would have had 2 reference it, so my only assessment may have 2 access to. 3 3 been not seeing any visual leaks during the Q What I'm getting at, though, is 4 actual test videos. 4 there something at Ford that addressed this 5 Yes, I would say my assessment 5 specific issue? Some Ford document you have? 6 was based on the test videos. 6 No, no. This is just published 7 7 All right. And in Paragraph 15, information. SAE papers, that type of thing. 8 you said -- Number 15, you talk about the 8 And are all the publications you 9 9 Taurus into the Jeep Grand Cherokee. reference on page -- Pages 9, 10, and 11 of 10 MS. DeFILIPPO: What page are you 10 your report? 11 11 on? Α These are some papers that they 12 12 MR. STOCKWELL: Six. would have had access to. 13 13 MS. DeFILIPPO: Eight, also. MS. DeFILIPPO: Page 6. 14 14 Q You talk about the check valve a MR. STOCKWELL: Correct. 15 little bit at the bottom of that paragraph? 15 Do you have copies of all of these 16 What about the check valve? 16 studies in your file? 17 17 Q Yes, I do. I'm just asking, you talk about the A 18 check valve? 18 Are they here today? Q 19 19 They're on a disk. A Yes. A 20 20 Q Okay. Since we don't necessarily Q Is that disk here? 21 know in the Kline vehicle whether the fuel 21 A Yes. 22 22 filler hose separated from the tank, we don't Q Great. Can you make a copy of that 23 know if the check valve had anything to do with 23 disk and give it to Angel, Ms. DeFilippo, for 24 the accident or had anything to do with the 24 me? 25 25 fire in this case, do we? A Yes. 147 149 1 Well, I think since there's a 1 Thank you. °2 2 number of tests where we had this type of I was also provided with a CD of 3 failure, it's likely that kind of failure 3 materials that I assume you gave to 4 happened in the Morris-Kline, and it appears 4 Ms. DeFilippo. On that disk was some materials 5 the failure mode of the check valve doesn't 5 related to an Orlando Jeep Grand Cherokee 6 stay with the tank. 6 accident. Do you know what I'm referring to? 7 7 But we don't have any physical That's recent. I think it's the 8 evidence that that's what happened in this 8 recent accident that was -- was it maybe 9 case, do we? 9 from -- I know the Center of Auto Safety had 10 Well, it's all burnt up. So, yeah, 10 some similar incidents --11 there's no way anybody can determine one way or 11 Q Okay. 12 the other where that check valve was. 12 -- on theirs, so I don't know if it 13 was that type information or there was a All right. On Page 7 now. You 13 14 state, "Chrysler Jeep had access to all the 14 recent -- I believe it was a recent Orlando

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accident.

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Yeah.

in relation to that accident?

I think it was a -- yeah.

Yeah. A recent Orlando accident.

Did you do any vehicle inspections

Not that one. And I've -- you

know, not -- it's been difficult to go out and

inspect these vehicles. I've -- some of the --

Safety has info on and good pictures of. But I

there's a few of them that Center For Auto

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available data, studies and information on the

vehicle design at the same time as Ford, and

Well, there's some internal

for safe fuel tank location."

are you referring to?

they could have made a better design decision

What data, studies and information

Chrysler documents where they state a desire to

go to mid-mounted tanks. And just -- I didn't

accumulate any of this, but there's -- it's in

my -- in any of the technical papers I've got

	150		152
1	would say the vast majority are just they're	1	the form.
2	not accessible for inspection.	2	MR. STOCKWELL: "Are you aware of,"
3	Q Okay. Have you done any other	3	is that?
4	vehicle inspections other than the one you did	4	MS. DeFILIPPO: "Through his
5	of the Kline vehicle?	5	investigation in this " what are you looking
6	MS. DeFILIPPO: What are you	6	for?
7	referring to?	7	MR. STOCKWELL: You know what?
8	MR. STOCKWELL: Jeep Grand	8	I'll take that out. You're right.
9	Cherokees.	9	BY MR. STOCKWELL:
10	MS. DeFILIPPO: Oh.	10	Q Are you aware of any other Jeep
11	Q Sorry.	11	Grand Cherokee accidents where the Jeep Grand
12	A I've done lots.	12	Cherokee was struck in the rear and then struck
13	No, I haven't.	13	a vehicle in front of it?
14	Q Would you agree when crash testing	14	A Well, I haven't done a
15	vehicle to vehicle, as was on done at Karco,	15	comprehensive look for other types of accidents
16	the tires should be set to the pressure	16	like this. I'm there's a couple that I can
17	recommended by the manufacturer?	17	recall, and I don't believe they had any
18	A As a general practice, I think	18	secondary impacts. But I've really only looked
19	that's a good thing to do. But there's so many	19	at a few.
20	other variables between crash testing and the	20	Q Would those accidents be contained
21	real world that if there's some other	21	somewhere in your file?
22	variables you could be trying to simulate a	22	A Yes, they would be.
23	condition where a vehicle one vehicle is	23	Q Okay.
24	braking, so the attitude differences could be	24	(Discussion held off the record.)
25	different. And, you know, in crash tests	25	Q Have you had any conversations with
	151		153
1	they're always run with the cars not at	1	Carl Nash about this accident or the defect
2	operating temperature, a lot of times. New	2	petition into the Jeep Grand Cherokee?
3	cars, not the Karco ones, but old cars, but the	3	A Neither of those, no.
4	manufacturers do new cars.	4	Q Okay. Have you had any
5	So, you know, there's even	5	conversations with Ditlow, Clarence Ditlow,
6	though a crash test, you try to be consistent	6	about the Kline case?
7	and control all the variables, tire pressure	7	A No, I haven't.
8	being one of them, there's just so many other	8	Q Any conversations with Clarence
9	variables that happen in the real world that	9	Ditlow about the defect petition?
10	you're not, you know, capturing the universe of	10	A No.
11	possible foreseeable crashes.	11	Q Do you know what passenger vehicles
12	Q Have you come across, through your	12	are currently still being manufactured with the
13	investigation in this case, any accident, any	13	fuel tank located behind the rear axle?
14	other accident, that is, involving a Jeep Grand	14	MS. DeFILIPPO: Are you confining
15	Cherokee where the Jeep Grand Cherokee was	15	that to SUVs?
16	struck in the rear and then struck another	16	MR. STOCKWELL: Cars, SUVs and
17	vehicle in front of it?	17	light trucks.
18	MS. DeFILIPPO: Can you read that	18	MS. DeFILIPPO: And light trucks?
19	back, please?	19	MR. STOCKWELL: Yeah.
20	(Question read.)	20	A No. I would be surprised. Here's
21	MS. DeFILIPPO: I just missed the	21	why I would be surprised. If anything that's
22	first couple of lines.	22	certified to the new 301 standard, so any
23	THE REPORTER: Okay. Sure.	23	currently produced vehicle, 2011 or later, that
1		100	111
24 25	(Question read.)	24 25	would have a fuel tank rear of the axle, with

10,000 pounds may not have to comply with the new 301, so something over 10,000 pounds, maybe, wouldn't surprise me. But anything less than 10,000 pounds, I would be surprised.

The work we did at Chrysler in the late '90s, you know, the amount of effort that would go in to protect a rear-mounted tank just wasn't worth the effort.

At some point it's just, Let's just put it forward of the axle, and then we've got a much better car and we can meet those standards.

So is it possible? Sure. But would it -- the vehicle would look like a tank from the back.

Q And when you talk about the effort to protect the tank, you're talking about in connection with the new 301 test?

A The new 301. The effort to -- yeah, design, develop, and manufacture.

Q Okay. The new 301 test, is that -- that's an offset?

23 A Offset test and also -- the
24 strike -- the moving barrier has a deformable
25 front end on it, rather than the older one,

that had a rear tank. And I -- possibly some SUVs also did.

Q All right. Would you agree with the statement that the dealer should never modify the structure of an automobile unless directed to do so by the manufacturer?

MS. DeFILIPPO: Objection to the form of that question.

A Well, in the context of --MS. DeFILIPPO: I mean, don't --

A -- modify, if -- if adding equipment or accessories, I don't consider modifications. So if a dealer puts a trailer hitch on, that should be fine. If you're adding something -- and you said without a TSB. So is that what you said?

Q Right. Yeah.

A Yeah. So a trailer hitch would be fine to add. A skid plate, you know, would be fine to add. Do -- modifications might be to repair a weld nut that failed, but again, there would be a process that the dealer would define. So I would say adding accessories would be fine to do.

Q All right. Now let's change that

which is just a flat front end, flat, usually, front end.

Q What's the speed at which it drives into the vehicle?

A It hits at 50 miles an hour instead of 30.

Q In 1996, do you know what passenger vehicles -- and when I say that, I mean cars or SUVs or light trucks -- were being manufactured with the fuel tank located behind the rear axle?

A I'm sure there were, you know, probably a number of rear drive vehicles. Probably most front drive vehicles had it forward of the axle.

Q I mean, rear of the axle.

17 A Rear -- yeah. Specifically, I
18 mean, I'm sure there were some. I don't have a
19 list --

Q Okay.

21 A -- of specifics.

Q Any off the top of your head that you recall as you sit here today?

A Well, I -- we talked earlier about the Mustang and the Crown Vic. Two Fords

in connection with a recall or a TSB. In that situation, would you expect a manufacturer -- a dealer to make a repair -- strike that.

Let me just ask you this: You're aware in 2002 there was a recall to Jeep Grand Cherokees that were built in 2002 to add a blocker bracket. Are you aware of that?

A 2002?

MS. DeFILIPPO: The 810.

Q The 810.

A 810. Yes. I am, yes.

Q Okay. Do you think it would be appropriate for a dealership to take that recall and then determine that that bracket should be installed on a '96 Jeep Grand Cherokee?

A Well, the dealer should perform the recall as it's stated. I don't recall if it extended to '96s or not.

Q I want you to assume hypothetically the recall only applied to 2002 Jeep Grand Cherokees. Should it apply that recall to a '96 Jeep Grand Cherokee?

MS. DeFILIPPO: Should? Wait, wait, wait, I'm objecting to the form. I

	158		160
1	don't know what you're talking about, "should."	1	bracket?
2	Should what?	2	A That would be redundant if you had
3	MR. STOCKWELL: Should the	3	the trailer hitch.
4	dealer	4	Q Okay. It was one or the other?
5	MS. DeFILIPPO: Should the	5	A Yeah.
6	manufacturer have	6	Q Okay. I got you.
7	MR. STOCKWELL: No, no, no.	7	MR. SACCO: You asked him that one.
8	MS. DeFILIPPO: have extended	8	(Discussion held off the record.)
9	it?	9	Q Does NHTSA require testing that
10	MR. STOCKWELL: No, no.	10	assesses underride?
11	MS. DeFILIPPO: What's the	11	A I don't believe the 301 standard
12	question?	12	addresses that as a specific language.
13	BY MR. STOCKWELL:	13	Q I'm almost done here,
14	Q I want you to assume that the	14	Mr. Hannemann, but I want to go back to a few
15	recall applied the express language of the	15	things in the beginning of your August 3rd
16 17	recall applied to 2002 Jeep Grand Cherokee vehicles. Should a dealer then take that	16	report.
1		17 18	A Okay.
18	recall and apply it to a 1996 Jeep Grand Cherokee?	19	MS. DeFILIPPO: The beginning? Did
20	A I wouldn't expect them to, no.	20	you say the beginning?
21	Q Who's responsible for insuring that	21	MR. STOCKWELL: Yeah, beginning.  Q And I'm looking for where you talk
22	a vehicle is designed safely? Is it a	22	about the couple of recalls that you were
23	manufacturer, is it a dealer, or is it a	23	involved in. Okay. Yeah. On Page 2,
24	combination?	24	Paragraph 3C. Oh, I'm sorry. Paragraph D,
25	A It would mostly be on the	25	"Saleen."
	159		161
1	manufacturer.	1	"I investigated numerous fire
2	Q Is there any part of that that	2	issues while I was the chief engineer at
3	would fall on the dealer?	3	Saleen, Inc. The resolution of these
4	A The design of the vehicle? No.	4	investigations resulted in my ordering two
5	Q Anywhere in your reports do you	5	voluntary product recalls."
6	address the conduct of Loman Auto Group?	6	Now, I looked for those recalls on
7	A I don't address it, no.	7	NHTSA's website, and I couldn't find them. Do
8	Q Do you know anyone who owns or has	8	you know why?
9	owned a '93 to 2004 Jeep Grand Cherokee?	9	A Well, just one of them was a NHTSA.
10	A '93 to '94?	10	The other one was not a NHTSA
11	Q 2004.	11	Q Okay.
12	A Oh, 2004. Yes.	12	A recall. The one that was a
13	Q How many, can you give me a rough	13	NHTSA recall was a result of an electrical fire
14	estimate?	14	due to modifications we've made to the Mustang.
15	A I'm I'm just thinking of one in	15	Q Okay.
16	particular, I guess.	16	A The second recall was actually I
17	Q Who's that?	17	call it a "containment recall" because we
18	A It's the technician at a company I	18	actually realized we could capture all the
19	used to work for, and I made sure he had a	19	vehicles before they got to customers' hands.
20	trailer hitch on the vehicle and told him not	20	Q Okay.
21	to take it off.	21 22	A And that was an issue with the fuel
23	Q Did he have a skid plate, too? A I don't believe he had a skid	23	line. The I believe we talked about it
24	plate, just a trailer hitch.	24	earlier, the EGR too close to the fuel line. But we contained all those, so that actually
25	Q Do you know if he had the Estes	25	didn't become a NHTSA recall.
20	2 Do you know it no had the Lates	120	arair cocomo a mixion totali.

	162		164
1	Q Okay.	1	Q Okay. What kind of crash testing
2	A There was another and those were	2	was performed at Saleen?
3	just the fire ones.	3	A Depends on which vehicle. On the
4	There was also a wheel recall at	4	Mustangs we typically didn't do anything that
5	Saleen, also. So you might the Saleen, you	5	would cause us to have to do a crash test. On
6	should you should come up with two recalls.	6	the S7 we ran a number of crash tests. That
7	One for the electrical fire, one for wheels.	7	was done after I left. But there was a crash
8	Q And what was the issue with the	8	test program for that vehicle, since that was a
9	wheels?	9	ground-up unique design.
10	A It turned out that the supplier	10	Q Okay. Have you looked at the death
11	had they had the wrong temperature on their	11	rates involving Saleen vehicles?
12	heat treat oven for about a week. And once	12	MS. DeFILIPPO: Wait a minute.
13	they traced that down, they were able to give	13	What are you referring to?
14	us the serial numbers of the wheels. And then	14	Q Have you looked at any statistics
15	we recalled a wider range of vehicles because	15	concerning deaths in Saleen vehicles?
16	we didn't sequence the wheels. Basically, the	16	MS. DeFILIPPO: From any source?
17	wheels would fail rather easily because the	17	MR. STOCKWELL: Any source, yeah.
18	heat treat was incorrect.	18	A No. The only source would have
19	Q Okay. The electrical fire issue,	19	been you know, would have been our own, you
20	when did you have notice of a first occurrence	20	know, customer hotline. And actually, the time
21	of that issue?	21	I was there, I'm not sure I recalled getting
22	A Well, in both, at the wheel and the	22	reports of any any deaths.
23	electrical fire, the first occurrence was	23	Q Okay. All right. Your Ford GT
24	enough for us to start an investigation as to	24	section, which is at "B," top of Page 2, Number
25	what was going on. And I think that with	25	В.
	163		165
1	actually, in both cases, during our own	1	A Sure.
2	internal investigation, we in both cases we	2	Q And it says, "In this role, I
3	had a second occurrence before we got to a	3	defined the design concept and the packaging
4	recall. But in both those cases, there	4	strategy for the fuel tank."
5	were two problems before we got them recalled.	5	What do you mean by "design
6	Q Okay. How much time with regard to	6	concept"?
7	the electrical fire how much time passed in	7	A That we were going to use a plastic
8	between the first occurrence and when you	8	tank and the basic configuration of the tank.
9	notified NHTSA?	9	Q Was that just your decision or was
10	A Probably a period of weeks. Six or	10	it did it involve other people as well?
111	eight weeks, I would say.	11	A I think in this case it was pretty
12	Q How many vehicles were affected?	12	much my decision.
13	A Probably, I think, 30 to 50.	13	Q Okay.
14	Pretty small number.	14	A And with, then, concurrence of a
15	Q And what was the repair, if any?	15	few other people.
16	A The repair was a we changed the	16	Q Why was a plastic tank used?
17	wiring harness and added one wire was	17	A Because the shape that we wanted
18	up-gauged.	18	the tank to fit into would have been difficult
19	Q What does that last word mean?	19	to make in steel; although, we did we did
20	A Okay. We went to a larger gauge	20	consider steel and aluminum, both, as
21	Q Oh.	21	alternatives, but chose the plastic tank.
22	A electrical wire.	22	We could have formed it in
23	Q Okay.	23	aluminum, and there was a piece cost versus
24	A There was just too much current	24	tooling costs trade-off that we considered. We
25	going through the wire as we had it spec'd.	25	then made the decision to go with the plastic

			43 (Pages 166 to 169)
	166		168
1	tom!ro	1	generated with regard to protecting the fuel
1 2	tanks.  Q Did Ford have to, for lack of a	2	tank in impacts for the GT?
	Q Did Ford have to, for lack of a better term, sign off on what was being done at	3	MS. DeFILIPPO: Is there any?
3	Saleen? Did it have to pass through Ford's	4	MR. STOCKWELL: Documentation.
4	hands at all?	5	MS. DeFILIPPO: Documentation in
5	POMAR SECURITY (SEC. ) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	where? At Ford?
6	A Absolutely not.	7	MR. STOCKWELL: Yeah.
7	Q Okay.	8	
8	A Saleen was pretty separate. They	9	Q While you were at Ford working on the GT?
9	bought vehicles from Ford. When it got to	10	2000A000
10	warranty issues, we did have a line of	ŧ	,
11	communication with Ford and a discussion of if	11	documents. There were six SAE papers written
12	an issue was a Ford issue or something we'd	12	on the GT. I don't recall if those SAE papers
13	created.	13	may have contained anything.
14	And they were pretty clear, you	14	And what led to this original
15	know. If our supercharger blew up an engine,	15	discussion is we did pay a lot of attention to
16	then we handled it. But if it was, you know,	16	the heritage of the vehicle. So we had an
17	the seat broke, we did nothing to the seat,	17	original Ford GT from the '60s, and we looked
18	Ford would handle it. So it's just a	18	at that.
19	communication but no no official	19	And that particular car had, you
20	connections.	20	know, something we would consider quite
21	Q And what do you mean by "packaging	21	dangerous today for gas tanks. It had two
22	strategy for the fuel tank"?	22	sidesaddle tanks that were actually in the very
23	A Just the location in the vehicle.	23	outboard of the car. And we just we
24	Q Okay. When you say you defined the	24	realized we wouldn't do that, so we knew we had
25	design concept and packaging strategy for the	25	to deviate. And that the original car with
	167		169
1	GT, was there anybody, for lack of a better	1	the tanks outboard, the occupants were moved
2	phrase, above you that had to review the	2	inboard and there was not much of a tunnel.
3	decision?	3	So we completely reversed that and
4	A There were, I would say, three	4	put in a big tunnel tank, which moved the
5	three people involved in some of the decisions,	5	occupants apart. And our consideration then
6	not all of them.	6	was given to the occupants because they're now
.7	Q Okay.	7	closer to the outside than the original car,
8	A John Coletti; Chris Theodore, who	8	with all of the gas tanks moved inboard. So
9	was vice-president of engineering; and Jay	9	the, you know, total packaging decision
10	Mays, who was vice-president of styling and	10	was considered.
11	design.	11	Q Okay. And you talk about you
12	And Jay wasn't involved in all the	12	said, "I also defined the concept for the fuel
1	decisions. He was involved in interior design	13	hose and filler pipe routing."
13	•	14	Can you explain that to me, please?
14	with seats, selection of the body panel	15	A Yeah. The design chief, a guy name
15	materials. Jay was probably involved in 20 or	16	Camilo Pardo, he there were a lot of design
16	30%.	17	characteristics they wanted to have on the
17	Chris was involved in maybe 50%	1	
18	of them.	18	vehicle. And one of them was they wanted to
19	And John Coletti was aware of	19	have two fuel fillers. The original car had a
20	probably every decision, and he was most	20	fuel filler for each side for each tank.
21	involved in the power train decisions.	21	And I didn't want two fuel fillers,
22	Q Okay. And it also says here,	22	so I I said we'll use one of the fillers.
23	"Primary consideration was given to protection	23	And we conceptualized how to get to that
24	of the fuel tank in impacts."	24	filler.
25	Was there any written material	25	And then we left the other door,

	170		172
1	but it actually you open it up, and it's a	1	other than any of the attorneys here, in
2	charge port for your battery, I believe is what	2	preparation for your deposition?
3	ended up there.	3	A Not specifically for the
4	Q Okay.	4	deposition, no.
5	A So we didn't want to make it a	5	Q Did you discuss the Kline case with
6	total fake thing. We wanted to give it some	6	anybody before the deposition? Within a day
7	kind of function	7	before the deposition, other than the
8	Q Okay.	8	attorneys?
9	A but they wanted the to have	9	A Well, I ran into Paul Sheridan at
10	the characteristics of the car having both of	10	breakfast yesterday, so I think we probably
11	those, so And again, there was it was a	11	discussed the case in general terms.
12	compromise. You know, the design guys wanted	12	Q Okay. Anything specifically you
13	something and we wanted something different and	13	recall him saying?
14	the final result was a compromise, although,	14	A No. I think it was more that he
15	the filler location was acceptable. It was	15	was going to sit in on the dep with Banta. And
16	inboard enough. It was in a good location, so	16	he was upset that his deposition kept getting
17	it was easy to agree to that.	17	delayed, and things like that.
18	Q Okay. And how was the filler hose	18	MR. SACCO: Only he would be upset
19	routed to the tank on the GT when you were	19	by that.
20	there?	20	Q All right. How did it come to be
21	A Well, the filler is mounted on the	21	that you met him at breakfast?
22	front fender on on the top surface. So kind	22	A It was a chance I went down to
23	of you visualize it at the base of the	23	get breakfast, and he was already there in
24	windshield.	24	the restaurant.
25	Q Yup.	25	Q Are you staying at the same hotel
	171		173
1	A And then we'd come out from the	1	as Mr. Sheridan?
2	bottom of that, take an immediate turn to get	2	A Yeah. And actually, he he just
3	out of the tire packaging envelope, and then at	3	raved about this hotel.
4	that point you're only a foot and a half away	4	Q He was raving about it yesterday
5	from the front of the fuel tank. So it goes	5	too.
6	directly into the fuel tank from there.	6	A Yeah. And
7	Q Okay. On Page 2, 3A, when you talk	7	MS. DeFILIPPO: And you don't think
8	about the Viper and being involved in the	8	it's anything, right?
9	development of improvements to resolve three	9	A And now I'm going on record
10	different issues that related to fires, did any	10	thinking it was nothing special.
11	of those issues have to do with the fuel tank?	11	Q You know what? I'm going to put
12	A No.	12	that off because he's going to read it.
13	Q All right. And the under hood fire	13	It's a nice hotel, Mr. Sheridan.
14	occurrence, that didn't involve the fuel tank?	14	A That's okay. No, that's okay.
15	A No, it did not.	15	I'll tell Paul myself.
16	Q Did you look at any documents to	16	MS. DeFILIPPO: You better tell him
17	prepare for the deposition today?	17	yourself.
18	A Just what's in my file.	18	MR. STOCKWELL: Give him a heads-up
19	Q Everything that's on the table?	19	before the transcripts goes out.
20	A Correct. And probably there's some	20	MR. SACCO: That's funny.
21	things here too, so	21	MR. STOCKWELL: All right.
22	Q Could I characterize that as an	22	Mr. Hannemann, those are my questions. Thank
23	electronic file?	23	you.
101	A XY	101	MO D FIT TODO YI
24 25	A Yes.  Q Okay. Did you speak to anybody,	24 25	MS. DeFILIPPO: I have a couple follow-ups just for clarity, I think. Just to

	174		176
1	clear a couple things up.	1	stipulation, with another case I'm working on,
2	CROSS-EXAMINATION	2	prior case at GM that was provided to me by the
3	BY MS. DeFILIPPO:	3	attorney in that case.
4	Q When you were talking about	4	And then the document that it's
5	locating tanks in the center of the vehicle,	5	based on was a document that was part of a
6	you were not referring to inside the vehicle,	6	library of files that I have access to at a
7	were you, at any time?	7	company that was formerly Syson-Hille.
8	A No, absolutely not.	8	Q Do you have that document with you?
9	Q Okay. You meant center of the	9	A Yes.
10	vehicle, outside of the passenger compartment?	10	Q I think you had it a minute ago.
11	A Correct.	11	And I'm not sure if you read this
12		12	into the record, and I just want to make sure
1	Q You had mentioned earlier about	13	
13	consulting for niche manufacturers, not the big	14	you read it completely. Could you just read
14	three. You used that term "not the big three,"	ł	the first sentence of the document?
15	right?	15	A This?
16	A Correct.	16	Q Right.
17	Q Who are the big three?	17	A "The recommended level of fuel
18	A Well, maybe I should say the	18	system performance is given for front, side,
19	American three these days, but Chrysler, Ford,	19	and rear impacts, and rollover, premised on the
20	and GM. I think that's been touted as the big	20	concept that occupants involved in collisions
21	three, so But and when I say "big	21	which produce occupant impact forces below the
22	three," I probably mean any major automotive	22	threshold level of fatality, should be free
23	manufacturer, so, you know, Toyota, Nissan,	23	from the hazard of post-collision fuel fires."
24	Honda.	24	Q And do you have the stipulation
25	Q But the big American three that you	25	that you say was based on this particular
	175		177
1	were referring to earlier in your deposition	1	concept of GM?
2	was Chrysler, Ford, and GM, correct?	2	A Yes, I do. But I believe it's not
3	A Correct.	3	here
4	Q You worked for Ford?	4	Q Okay.
5	A Yes, I did.	5	A so I won't be able to read it.
6	Q You worked for Chrysler?	6	Q Okay. But we're going to produce
7	A Yes, I did.	7	this, correct?
8	Q Did you work for GM?	8	A Correct.
9	A Yes, I did.	9	Q So we can move on.
10	Q You worked for all three?	10	You were asked earlier to define
11	A I covered them all.	11	
12	Q At some point did you become aware	12	"crashworthiness." Do you have or did you
13		13	receive or obtain or ask for any New Jersey
1	of GM's stipulation regarding a standard	1	definition of crashworthiness?
14	whereby people should be able to survive	14	A Yeah. When I was asked the
15	crashes of and their determination of when	15	question, I was thinking more of a definition
16	you survive a crash from the standpoint of	16	in my own words.
17	trauma versus a standpoint of fire?	17	Q But
18	A Yes, I have.	18	A But I was provided just the New
19	MR. STOCKWELL: Just note my	19	Jersey definition of crashworthiness.
20	objection to form.	20	Q And do you believe that the Susan
21	Q Okay. Was the stipulation	21	Kline vehicle, at the time of the collision in
22	something you became aware of in addition I	22	February of 2007, was crashworthy?
23	think you had a document where you had some GM	23	A No, it was not.
24	principle in the document about that?	24	MR. STOCKWELL: Objection to the
25	A Yes, I do. I I was aware of the	25	form.

1	178		180
1	Q And you don't believe it was	1	A all those conditions that made
2	crashworthy, as you just said. Can you state	2	it non-crashworthy, existed at the time it left
3	the reasons it was not crashworthy?	3	Chrysler's hands.
4	MR. STOCKWELL: Same objection.	4	Q Now, you indicated that when you
5	A Well, based on the New Jersey	5	first accepted the assignment that on Page 2
6	definition. And it talks about crashworthiness	6	of your report, you indicated you were
7	is defined as the ability of a motor vehicle to	7	requested to determine if there was a product
8	protect its passengers from enhanced injuries	8	defect related to the '96 Jeep Grand Cherokee
9	after a collision.	9	that caused the fire which resulted in Susan
10	Q And from I'm sorry if you didn't	10	Kline's death, correct?
11	finish.	11	A Yes.
12	A Yeah. And the Kline vehicle did	12	Q That's your statement?
13	not do that.	13	A Yes, it was.
14	Q From a purely engineering	14	Q And in the end of your report, you
15	standpoint, and based on your knowledge,	15	summarize by indicating that the conclusions
16	experience, your studies, your reviews of the	16	are those conclusions where you'll enumerate
17	crash tests of Chrysler, and your reviews of	17	the defects that you found?
18	the crash tests of that were done by Center	18	A Yes, it is.
19	For Auto Safety and the federal government, are	19	Q And Conclusion A, you say that,
20	you able to indicate from an engineering point	20	"Had the Chrysler designed the 1996 Jeep Grand
21	of view, whether the Kline vehicle, in February	21	Cherokee with the fuel tank in a safe location,
22	of 2007, was a crashworthy vehicle?	22	it is likely Susan Morris-Kline would not have
23	MR. STOCKWELL: Objection to the	23	died from a fire in this case."
24	form.	24	Does that set forth your defect
25	A Yeah, I kind of got lost a little	25	which you've expressed previously about tank
	179		181
1	there.	1	location?
2	Q Okay. Well, we'll repeat that.	2	MR. STOCKWELL: Object to the form.
3	(Question read:	3	A Yes. In the '96 Jeep Grand
4	"Q From a purely engineering	4	
5		1	Cherokee, the tank location is a defect.
1 )	standpoint, and based on vour knowledge.	5	Cherokee, the tank location is a defect.  O And does that, in your opinion.
	standpoint, and based on your knowledge, experience, your studies, your reviews of the	5	Q And does that, in your opinion,
6	experience, your studies, your reviews of the	6	Q And does that, in your opinion, make the vehicle a vehicle which is not safe?
6 7	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of	6 7	Q And does that, in your opinion, make the vehicle a vehicle which is not safe?  MR. STOCKWELL: Objection to form.
6 7 8	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center	6	Q And does that, in your opinion, make the vehicle a vehicle which is not safe? MR. STOCKWELL: Objection to form. A Yes, that's correct.
6 7 8 9	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are	6 7 8 9	Q And does that, in your opinion, make the vehicle a vehicle which is not safe? MR. STOCKWELL: Objection to form. A Yes, that's correct. Q Now, in the other cars which you
6 7 8 9 10	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are you able to indicate from an engineering point	6 7 8 9	Q And does that, in your opinion, make the vehicle a vehicle which is not safe? MR. STOCKWELL: Objection to form. A Yes, that's correct. Q Now, in the other cars which you were asked about, and I believe that was in '96
6 7 8 9	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are you able to indicate from an engineering point of view, whether the Kline vehicle, in February	6 7 8 9	Q And does that, in your opinion, make the vehicle a vehicle which is not safe? MR. STOCKWELL: Objection to form. A Yes, that's correct. Q Now, in the other cars which you were asked about, and I believe that was in '96 you said there was a Mustang and Crown Victoria
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6 7 8 9 10 11	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are you able to indicate from an engineering point of view, whether the Kline vehicle, in February of 2007, was a crashworthy vehicle?")  MR. STOCKWELL: Same objection.  A Yeah. Based on that, I don't	6 7 8 9 10 11 12 13	Q And does that, in your opinion, make the vehicle a vehicle which is not safe? MR. STOCKWELL: Objection to form. A Yes, that's correct. Q Now, in the other cars which you were asked about, and I believe that was in '96 you said there was a Mustang and Crown Victoria that you were aware of with a tank which was
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6 7 8 9 10 11 12 13 14 15 16 17	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are you able to indicate from an engineering point of view, whether the Kline vehicle, in February of 2007, was a crashworthy vehicle?")  MR. STOCKWELL: Same objection.  A Yeah. Based on that, I don't believe it was a crashworthy vehicle.  Q And are you able to state whether your opinion as to whether the	6 7 8 9 10 11 12 13 14 15 16	Q And does that, in your opinion, make the vehicle a vehicle which is not safe?  MR. STOCKWELL: Objection to form.  A Yes, that's correct.  Q Now, in the other cars which you were asked about, and I believe that was in '96 you said there was a Mustang and Crown Victoria that you were aware of with a tank which was also behind the axle. Those two you enumerated, correct?  A Yes.  Q Both of them were cars and not SUVs; is that accurate?
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are you able to indicate from an engineering point of view, whether the Kline vehicle, in February of 2007, was a crashworthy vehicle?")  MR. STOCKWELL: Same objection.  A Yeah. Based on that, I don't believe it was a crashworthy vehicle.  Q And are you able to state whether your opinion as to whether the vehicle was crashworthy based on all of the things that we've discussed at the time it left the hands of the manufacturer?  MR. STOCKWELL: Objection to the form.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q And does that, in your opinion, make the vehicle a vehicle which is not safe?  MR. STOCKWELL: Objection to form.  A Yes, that's correct.  Q Now, in the other cars which you were asked about, and I believe that was in '96 you said there was a Mustang and Crown Victoria that you were aware of with a tank which was also behind the axle. Those two you enumerated, correct?  A Yes.  Q Both of them were cars and not SUVs; is that accurate?  A That's correct. And they also I don't believe either one of them had a fuel line, fuel filler routed through the rail and likely had sufficient structure to protect the tank to the standards at the time.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are you able to indicate from an engineering point of view, whether the Kline vehicle, in February of 2007, was a crashworthy vehicle?")  MR. STOCKWELL: Same objection.  A Yeah. Based on that, I don't believe it was a crashworthy vehicle.  Q And are you able to state whether your opinion as to whether the vehicle was crashworthy based on all of the things that we've discussed at the time it left the hands of the manufacturer?  MR. STOCKWELL: Objection to the form.  Q Which was in 1996	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q And does that, in your opinion, make the vehicle a vehicle which is not safe?  MR. STOCKWELL: Objection to form.  A Yes, that's correct.  Q Now, in the other cars which you were asked about, and I believe that was in '96 you said there was a Mustang and Crown Victoria that you were aware of with a tank which was also behind the axle. Those two you enumerated, correct?  A Yes.  Q Both of them were cars and not SUVs; is that accurate?  A That's correct. And they also I don't believe either one of them had a fuel line, fuel filler routed through the rail and likely had sufficient structure to protect the tank to the standards at the time.  Q Now, in a situation like the
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	experience, your studies, your reviews of the crash tests of Chrysler, and your reviews of the crash tests of that were done by Center For Auto Safety and the federal government, are you able to indicate from an engineering point of view, whether the Kline vehicle, in February of 2007, was a crashworthy vehicle?")  MR. STOCKWELL: Same objection.  A Yeah. Based on that, I don't believe it was a crashworthy vehicle.  Q And are you able to state whether your opinion as to whether the vehicle was crashworthy based on all of the things that we've discussed at the time it left the hands of the manufacturer?  MR. STOCKWELL: Objection to the form.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q And does that, in your opinion, make the vehicle a vehicle which is not safe?  MR. STOCKWELL: Objection to form.  A Yes, that's correct.  Q Now, in the other cars which you were asked about, and I believe that was in '96 you said there was a Mustang and Crown Victoria that you were aware of with a tank which was also behind the axle. Those two you enumerated, correct?  A Yes.  Q Both of them were cars and not SUVs; is that accurate?  A That's correct. And they also I don't believe either one of them had a fuel line, fuel filler routed through the rail and likely had sufficient structure to protect the tank to the standards at the time.

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1 MR. STOCKWELL: Objection to the --2 A Yes, we did.

Q So could you explain in the Susan

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Kline accident what you mean by "underride"?

Well, I define underride as when the striking vehicle's main structure is not engaged with the main structure of the vehicle that strikes.

And you can see from the pictures of the Morgan-Alcala Toyota, there's only minor damage to the front bumper and the initial front crash structure, and there doesn't appear to be any damage to the main frame rails. That indicates that part of the vehicle going under the bumper.

And the structure above those frame rails is very soft and doesn't allow a lot of energy absorption, which also would allow the vehicle to penetrate underneath the other vehicle.

21 Was the bumper height of the Susan 22 Kline vehicle higher than the passenger -- or 23 the minivan, let's say, the Toyota?

24 MR. STOCKWELL: Objection to the 25 form. The what of the Toyota?

1 considerations, which would have raised the 2 bumper height probably close to the maximum 3 allowed by regulations.

And the two examples that you gave of cars with rear tanks outside -- on the back of the axle, they were cars. Were they lower to the road, let's say, than the Jeep in terms of bumper height?

A Yeah, both of those would have been lower.

Q Now, the tank in the Susan Kline vehicle, I think you indicated, was not protected by a skid plate, correct?

14 MR. STOCKWELL: Objection to the 15 form.

A skid plate, or actually any other device that might have helped protect it during an underride.

19 Do you believe it was an Q 20 unprotected tank?

21 A Yes, I do.

> Do you know whether or not the tank hung below -- any portion of the tank hung below the bumper of the Jeep?

A Yes, it did.

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MS. DeFILIPPO: The front of the 2 Toyota. 3 MR. STOCKWELL: Front bumper? 4 MS. DeFILIPPO: Let me --5 MR. STOCKWELL: Sorry.

MS. DeFILIPPO: Let me rephrase the question.

BY MS. DeFILIPPO:

Was the bumper height of the Jeep, the Susan Kline Jeep, higher than the bullet vehicle in this case, which was the Toyota Sienna?

MR. STOCKWELL: Objection to the form.

Yes, it was. Α

16 Q Do you recognize the term, 17 "mismatched bumper heights"?

> A Yes, I do.

Okay. Now, the Crown Victoria and the Mustang, would they have bumpers at the height of the -- for instance, of a SUV like the Jeep?

Typically not. They would have had probably lower bumpers. As I said before, the Cherokee was designed for off-road

Was that the design of the Jeep Grand Cherokee in 1996, that a portion of that tank would hang below the bumper?

Α That was how it was designed.

Q Would you consider a Susan Kline vehicle to be a base or basic vehicle?

After everything I've seen, it appeared to have, you know, no real options, specifically no options in the area of concern of the gas tank.

Q Did it have any rear structural options?

A No. it did not.

So in a base vehicle like the Susan Kline vehicle, with the unprotected tank hanging below the bumper, in an underride situation, is it likely that the tank would be struck directly --

MR. STOCKWELL: Objection to the form.

Q -- by the bullet vehicle?

22 A Yes, it is.

> Do you believe that that's what Q happened in the Susan Kline accident?

> > MR. STOCKWELL: Objection to form.

Yeah, I'm -- there's pretty good evidence that the Toyota underrode the Jeep and would have struck the tank. In the crash tests that you looked at, did you look at all of the crash tests provided by Chrysler? I believe I looked at all of the rear impact, yes. And were there 29? Q A Yes. O And in the crash tests that you looked at, both those and the ones that were provided by Chrysler, was there -- did you formulate an opinion as to whether or not the Jeep Grand Cherokee had passed 301? MR. STOCKWELL: Objection to the form. Q In 1990 -- the first iteration, the ZJ. Yeah. The only -- my opinion, the Α only passing test was one which included a trailer hitch and a full-size spare. The tests that they put on their compliance report, which had no trailer hitch but also a full-size spare, was not built properly for the test. It

Now, it could also be -- in this case, just supply all vehicles with a full-size spare. And then you don't need to pass a test with a compact spare.

Q If that were the only issue that was causing a failure to comply, correct?

A Correct. I just used that as an example.

Q Okay. Can you tell me, after your review of the 29 tests that you did of -- that Chrysler supplied, whether or not a basic Susan Kline vehicle ever passed the 301 testing?

A No, there was never --MR. STOCKWELL: Objection.

A -- a test run in that configuration that passed.

Q Do you believe that a manufacturer, a prudent manufacturer practicing prudent engineering based on the principles of engineering and your knowledge and experience and training in this area, is required to pass a basic vehicle before they can certify compliance to our government --

MR. STOCKWELL: Objection.

Q -- of passing a government

was noted in the test report that the drive shaft was too short, as we talked about earlier.

And neither of these vehicles were in the base condition. The fact that they had trailer hitches on one of them and full-size spare on the other means they weren't in the base condition.

And also, you know, there's -- of course, you can't test every condition. But I believe that Chrysler had prior knowledge that they could not pass the test with the compact spare. In the case where you have, you know, prior knowledge of that, you can't ignore it and just test with options.

Q Can you formulate a judgment to ignore a test when you know you have a failure and then just test with an option --

MR. STOCKWELL: Objection.

Q -- for a passing test for purposes of compliance?

A Once you have knowledge of a test that would fail, you do need to address the condition, if that's a condition you desire to build cars in.

regulatory test?

MR. STOCKWELL: Objection to the form.

A Actually, technically, all configurations you sell should pass.

If you have knowledge that your base vehicle does not pass, then I think it's irresponsible to sell a vehicle equipped that way.

Q And should you have knowledge that your base vehicle passes before moving on to vehicles with options for purposes of compliance testing?

A That's typically how I would do it. And even in the Chrysler deposition, I believe Michael Teets had the same philosophy. You test your base vehicle and then you add optional equipment, and it should continue to pass. But the premise is the base vehicle should pass, also.

Q You had mentioned earlier some -you had some testimony about the filler hose pulling from the tank and you had indicated -and correct me if I'm wrong -- I think you said that based on the facts that you read about the

			45 (Lages 150 to 195)
	190		192
1	fire happening as soon as the impact occurred,	1	also had a full-size spare.
2	that was one of the factors that led you to	2	Q Okay. Was there a skid plate test
3	believe the hose probably did pull out of this	3	in the 29 tests that did not pass?
4	tank, correct?	4	A Not that I know of.
5	MR. STOCKWELL: Objection to the	5	Q Okay. So that's the 301,
6	form.	6	30-mile-an-hour, non-deformable barrier test,
7	Q Is that what you said or	7	correct?
8	A That's correct.	8	A Correct.
9	Q Okay. Even if the hose did not	9	COURS DA MODERNOON DE
10	pull out in this case for some reason, was	10	
11	there another defect in this vehicle which	11	tests that you looked at, which were the Center
12	would, in your opinion, have caused a fire in a	12	For Auto Safety tests, did you review any tests
13	rear-end collision?	13	that had a skid plate that you can recall?
14		14	A No, I don't recall if those
15	MR. STOCKWELL: Objection to the form.	15	vehicles had skid plates or not.
16	A In this accident?	1	Q In those in the 50-mile-an-hour
17		16 17	Karco tests, was that a passing test? 50 miles
18	Q Yes. In this accident, in this case, in the 1996 basic vehicle.	18	an hour?
19		1	A No, it was not.
20	A Yeah, had the filler hose and	19	Q And the 40-mile-an-hour Karco test,
21	that is my most likely candidate. But had that	20	was that a passing test?
22	not occurred, it's just as likely that the tank	21	A I'm not sure I reviewed that test.
23	would have been ruptured just due to contact	22	We talked about it earlier and I
24	with the Toyota.	23	Q Have you reviewed it
25	Q When you reviewed the testing, was	24	A I'm not sure.
23	there ever any testing with a skid plate or	25	Q since writing your report?
	. 191		193
1	with a trailer hitch where the let's just	1	While you're looking for that
2	talk skid plate with a skid plate where the	2	A I think I got actually, I
3	tank was protected but there was still a	3	think
4	leakage in the test?	4	MS. DeFILIPPO: I'm just going take
5	MR. STOCKWELL: Objection to the	5	a quick bathroom break.
6	form.	6	THE WITNESS: Me, too.
7	A Actually, the two tests that I know	7	(Recess taken.)
8	had skid plates both passed.	8	(Question read.)
9	Now, when we talked earlier that I	9	A I'm reviewing it now.
10	reviewed all the tests, some of the tests	10	Q But Mr. Hannemann, you had that
11	didn't have photos, some didn't have a report,	11	test before writing your final report in
12	some didn't have video, some didn't describe	12	August. That's the test of June 7th, 2010?
13	all the equipment. So I was able to identify	13	A Yes, I did.
14	whether a vehicle had a skid plate or not in	14	Q And now having found it in your
15	only about half the tests. So I can't say for	15	voluminous file, can you tell me whether the
16	certainty that every time a skid plate was on	16	test, the 40-mile-an-hour Karco test, was a
17	that it passed. But the two that I know had	17	passing test?
18	skid plates both passed the test.	18	A No, it was not. It had an
19	Q So when the tank was protected in	19	immediate leak as a result of the impact.
20	the 29 tests provided by Chrysler, that vehicle	20	Q And was the leak from the fuel
21	passed the test with the skid plate protection,	21	filler hoses pulling out or something else?
22	correct?	22	A I'm not sure that the Karco
23	MR. STOCKWELL: Objection to the	23	tests if they specified.
24	form.	24	Q Well, if you reviewed the video and
25		25	The same of the sa

			50 (Pages 194 to 197)
	194		196
1	answer that question; is that a fair statement?	1	structure of the vehicle to be improved for
2	A Yes, I could.	2	that defect to be removed. So both of those go
3	Q Okay. And if you were there,	3	together.
4	anybody who was there would be able to answer	4	It's likely that just a skid plate
5	that statement, also, correct?	5	would have been sufficient to prevent this
6	A That's correct. I do recall from	6	accident or this injury and death. And it's
7	the 50-mile-an-hour test, that the pictures	7	possible that a trailer hitch may have, also,
8	provided to me did not show the specific	8	by itself, have prevented the death.
9	leakage area.	9	MS. DeFILIPPO: All right. I think
10	Q On the 50-mile-an-hour test?	10	that's all I have. Thank you.
11	A 50.	11	MR. STOCKWELL: I've got some
12	Q Okay.	12	follow-up.
13	A The 40, if, depending on how on	13	REDIRECT-EXAMINATION
14	how good the pictures are, I would be able to	14	BY MR. STOCKWELL:
15	identify it.	15	Q The stipulation that Ms. DeFilippo
16	Q Hypothetically, based on your	16	asked you about that General Motors made, was
17	knowledge and your review of everything in this	17	that stipulation, to your knowledge,
18	case and your experience, your training, are	18	incorporated into any General Motors procedures
19	you able to indicate in a rear-end collision of	19	or practices?
20	a base vehicle like the Susan Kline vehicle,	20	A Well, the stipulation was, to me,
21	whether the vehicle was defective and indicate	21	confirmation of the policy that they had in
22	the defects that you found in that particular	22	place.
23	vehicle?	23	Q What policy was in place before
24	MR. STOCKWELL: Objection to the	24	that in writing that you're aware of?
25	form.	25	A The I'm not sure it had a title
************	. 195	1	197
1	A Yes, I believe it's defective and I	1	on it.
2.	could identify a number of separate defects.	2	MS. DeFILIPPO: It's the last one.
3	And I'm not sure that it requires all those	3	A That was the abstracts, I believe.
4	defects to even consider the vehicle defective.	4	Well, it's from an abstract of it's a
5	Q Okay. Well, would any one of the	5	presentation on fuel system integrity. So I
6	defects which you are about to identify and I'm	6	would say it's General Motors' policy on fuel
7	going to ask you about, cause the vehicle to be	7	system integrity.
8	unfit, unsuitable, and unsafe for a consumer	8	Q Do you know of any other
9	like Susan Kline?	9	manufacturer well, strike that.
10	MR. STOCKWELL: Objection to the	10	MR. STOCKWELL: Can we mark that as
11	form.	11	an exhibit?
12	A I guess I'd have to look you'd	12	(Exhibit D-3, Abstracts, is marked
13	have to go through it case by case.	13	for identification.)
14	Q Well, I'm only	14	MS. DeFILIPPO: What's the thing
15	A If you'd like me to	15	called? I mean, what's the marking rather?
16	Q Yes, go ahead. Why don't you	16	THE REPORTER: D-3.
17	enumerate the defects, and we'll do it that	17	MS. DeFILIPPO: D-3? What was D-2
18	way.	18	and D-1?
19	A Yeah. Well, in the absence of	19	MR. STOCKWELL: D-2 was a
20	fixing anything else, moving the tank	20	photograph, D-1 was his trial deposition list.
21	forward the fuel tank forward of the axle,	21	MS. DeFILIPPO: That was your
22	would have improved the vehicle and removed	22	photo? So you have to
23	that defect.	23	THE WITNESS: 4561.
24	The defect of the fuel filler hose	24	MS. DeFILIPPO: We're going to need
25	going to the frame rail also requires the	25	to make a copy of that. Why don't you leave it

	198		200
1	with me?	1	A Well, it's the with the skid
2	MR. STOCKWELL: You know what? I	2	plate, it's likely that it would have been. I
3	can leave it with the court reporter, too.	3	guess I would rank them in order: Skid plate,
4	MS. DeFILIPPO: Yeah, well	4	trailer hitch, Estes bracket, as far as
5	but	5	
6		6	improving its level of crashworthiness. I
7	MR. STOCKWELL: If you want. But you can make copies if you want.	7	mean, it definitely would have improved crashworthiness.
1			8 × 100 0
8	MS. DeFILIPPO: Yeah. There's only	8	Q Would it have been crashworthy?
9	three.	9	A Without having knowing if that
10	MR. STOCKWELL: Okay.	10	type of vehicle can resist a fire at levels
11	MS. DeFILIPPO: I'll make the	11	below somebody, you know, who was fatally
12	copies.	12	injured, it's hard to tell.
13	MR. STOCKWELL: All right. I may	13	Q Okay. Hypothetically, if Chrysler
14	have a few more exhibits, though.	14	said we're going to take all the '93 to 2004
15	MS. DeFILIPPO: What was D-1 now?	15	Jeep Grand Cherokees and we're going to fit
16	MR. STOCKWELL: The trial and	16	them with a trailer hitch and a skid plate,
17	deposition list.	17	would that recall be acceptable to you?
18	MS. DeFILIPPO: Okay.	18	A Yes.
19	MR. STOCKWELL: It's a spreadsheet.	19	MS. DeFILIPPO: Are you talking
20	MS. DeFILIPPO: Okay.	20	about in a recall situation? A recall
21	BY MR. STOCKWELL:	21	scenario?
22	Q Are you aware of any other	22	MR. STOCKWELL: Yeah.
23	automobile manufacturer that has adopted the	23	MS. DeFILIPPO: Yeah. Okay.
24	statement in the GM stipulation?	24	A Okay. Based on the information I
25	A I I don't have knowledge of	25	have, hypothetically, if I had my chief
Para to Assessment		1	
	199		201
1		1	
1 2	every policy of every manufacturer, so that's	1 2	engineer hat on, I probably would accept that,
2	every policy of every manufacturer, so that's really hard to answer that question.	2	engineer hat on, I probably would accept that, yes.
2	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no,	2 3	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate
2 3 4	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?	2 3 4	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank
2 3 4 5	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?  A Yeah, I'm not aware.	2 3 4 5	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank from impact by another vehicle?
2 3 4 5 6	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?  A Yeah, I'm not aware.  Q Has the government adopted that	2 3 4 5 6	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank from impact by another vehicle?  A Typically, skid plates are marketed
2 3 4 5 6 7	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?  A Yeah, I'm not aware.  Q Has the government adopted that stipulation?	2 3 4 5 6 7	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank from impact by another vehicle?  A Typically, skid plates are marketed as protection from off-road environments. In
2 3 4 5 6 7 8	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?  A Yeah, I'm not aware.  Q Has the government adopted that stipulation?  A You know, the government 301	2 3 4 5 6 7 8	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank from impact by another vehicle?  A Typically, skid plates are marketed as protection from off-road environments. In the case of the Grand Cherokee, since it has a
2 3 4 5 6 7 8 9	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?  A Yeah, I'm not aware.  Q Has the government adopted that stipulation?  A You know, the government 301 regulation is more on preventing leaks and	2 3 4 5 6 7 8 9	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank from impact by another vehicle?  A Typically, skid plates are marketed as protection from off-road environments. In the case of the Grand Cherokee, since it has a structural issue with its frame rail, it gives
2 3 4 5 6 7 8 9	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?  A Yeah, I'm not aware.  Q Has the government adopted that stipulation?  A You know, the government 301 regulation is more on preventing leaks and fires, but I don't believe it's tied into	2 3 4 5 6 7 8 9	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank from impact by another vehicle?  A Typically, skid plates are marketed as protection from off-road environments. In the case of the Grand Cherokee, since it has a structural issue with its frame rail, it gives it that added benefit.
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2 3 4 5 6 7 8 9 10 11 12	every policy of every manufacturer, so that's really hard to answer that question.  Q Okay. The answer would be no, you're not aware?  A Yeah, I'm not aware.  Q Has the government adopted that stipulation?  A You know, the government 301 regulation is more on preventing leaks and fires, but I don't believe it's tied into injuries, so no.  Q Has any trade organization adopted	2 3 4 5 6 7 8 9 10 11	engineer hat on, I probably would accept that, yes.  Q Have you ever seen a skid plate marketed as a device to prevent the fuel tank from impact by another vehicle?  A Typically, skid plates are marketed as protection from off-road environments. In the case of the Grand Cherokee, since it has a structural issue with its frame rail, it gives it that added benefit.  Q When you say "structural issue with the frame rail," what are you referring to?
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	202		204
1	A I think it's likely that it would	1	Q Do you know if Chrysler undertook
2	have.	2	any investigation following the failure of the
3	Q Based on what?	3	tests with the compact spare?
4	A All the information I've looked at.	4	
		1	A I think, you know, if we had all
5	The testing, the you know, what you know,	5	the change requests, I might be able to
6	the fact that that does improve the vehicle.	6	determine that.
7	Q Is that it?	7	(Discussion held off the record.)
8	A I think that's it, yeah.	8	Q Okay. So you're not sure as you
9	Q Okay. And by the way, is it	9	sit here today?
10	possible for a trailer hitch to be pushed	10	A Yeah, I'm not sure if they made
11	forward into a fuel tank and pierce the fuel	11	what was the question? Did they determine that
12	tank?	12	was the cause of the failures?
13	A I think it is possible. I think in	13	Q Played a role.
14	Banta's depositions, he's more concerned about	14	A Played a role? Yeah, I'm I'm
15	trailer hitches that can actually or maybe	15	pretty sure they did, because they were
16	it was Owen Viergutz who's worried more about	16	actually strengthening the brackets that held
17	trailer hitches causing a problem, so that can	17	it into the vehicle.
18	happen.	18	MS. DeFILIPPO: That held the
19	In this case the benefit of the	19	spare?
20	trailer hitch helping the frame rail, you know,	20	A Held the spare in. And they
21	outweighs the possibility that it might intrude	21	continued to run with full-size spares. And
22	on the gas tank.	22	yeah, I think that they had knowledge that that
23	Q And you talked about the VC testing	23	was a problem.
24	and the fact that Chrysler used full spare	24	Q Okay. Is there any written
25	tires in those tests. Do you know whether they	25	standard requirement or authoritative text that
		<b></b>	
1	203		205
1	determined whether the full coare tire played a	1	205
1 2	determined whether the full spare tire played a	1	you're aware of that requires a base vehicle to
2	determined whether the full spare tire played a role in the passing or the failing of the test?	2	you're aware of that requires a base vehicle to pass a 301 compliance test?
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			35 (rages 200 co 20)
	206		208
1	MR. STOCKWELL: Could you read back	1	won't leak statically.
2	the question for me? because I forgot it.	2	Q I don't know what that means. Can
3	(Discussion held off the record.)	3	you explain that a little better to me?
4	(Question read:	4	A Well, I mean, fuel leakage, because
5	"Q Which configuration are you	5	there's a hole or some type of thing, is one
6	referring to?")	6	one issue. And the other one is a leak due to
7	A Yeah. So any configuration with a	7	something that requires pressure to push the
8	compact spare and then up until '96, there was	8	fuel out. So they do a pressure check on the
9	nothing that passed without a trailer hitch.	9	
10		ŧ	fuel system after the test.
11	Q And you're looking at not only	10	MS. DeFILIPPO: Was there a prop
1	developmental tests, but also validation tests?	11	shaft on that? On that vehicle?
12	A Correct.	12	THE WITNESS: Well, yeah. And
13	Q And can you show me which tests	13	this yeah. This wasn't even it's odd
14	were had a compact spare?	14	that they ran a few tests where they didn't
15	A The only one I know for sure that	15	even have prop shafts in the vehicles, so
16	had a compact spare was 5046.	16	MS. DeFILIPPO: So this didn't have
17	Q And that was February 1st of '94?	17	a prop shaft at all, this car, and it was
18	A Correct.	18	tested?
19	MS. DeFILIPPO: Can I see this for	19	THE WITNESS: Yeah.
20	a second?	20	MS. DeFILIPPO: Well, if you have
21	MR. STOCKWELL: Mark this as the	21	the whole tests
22	next exhibit.	22	THE WITNESS: And see, this is what
23	(Exhibit D-4, Safety Test, Vehicle	23	I would this is really more like a system
24	Crash Test Letter, is marked for	24	level test. They modified it to represent the
25	identification.)	25	'95 returnless fuel system.
*************	207		209
1	Q I'm going to show you what's been	1	Now, in I think in Michael
2	Q I'm going to show you what's been marked as Exhibit D-4. Just take a look	2	
3		3	Teets' deposition, he stated they never tested
100	through it and let me know when you're ready.  MS. DeFILIPPO: Which one's that?	1	the '95 returnless fuel system. So that's
4		4	I'm a bit confused because he's stated they
5	THE WITNESS: Just the summary of	5	never tested it.
6	5046.	6	So basically, I wouldn't even
7	MR. STOCKWELL: Here you go. The	7	consider this a valid test for giving an
8	first page.	8	indication of total vehicle performance. They
9	MS. DeFILIPPO: Do you have the	9	were probably just looking at some aspect of a
10	rest of this?	10	part that they put on the vehicle.
11	MR. STOCKWELL: I could. I might.	11	Q The failure of the fuel system
12	Do you need to look at the rest of it?	12	pressure check, can that cause a fire?
13	MS. DeFILIPPO: Well	13	A I suppose it could.
14	A No. And this test is a failure	14	Q Okay. But at least as far as fuel
15	because Chrysler also their own standard is	15	leakage that we're talking about, which is what
16	to fuel systems should hold pressure. And	16	301 speaks to, there was no fuel leakage in
17	during this test, there was no fuel leakage	17	this test?
18	during or post-impact, but the system dropped	18	A Yeah, no leakage. And again,
19	pressure.	19	because of the build of that car, I wouldn't
20	Q What does that mean, "the system	20	really consider it a valid test.
21	dropped pressure"?	21	Q When you say "build," you're
22	A When you pressurize a system, it's	22	talking about the absence of a prop shaft?
23	not even though it doesn't leak, it actually	23	A Correct.
24	doesn't hold pressure. So if you if you had	24	Q Let's talk about did I mark
25	pressure in the fuel system, it would leak. It	25	MR. STOCKWELL: Let's keep this
	r	1-0	THE STOCK HILDER TOUR WOOD HILD

		·	34 (Pages 210 to 213)
	210		212
1	separate, so I don't mix up exhibits again.	1	questions and there's no question pending,
2	Let's mark this as D-5.	2	but if you need the full 5199 test production,
3	(Exhibit D-5, Chrysler Motors	3	just you can indicate that.
4	Safety Test 5199, Vehicle Crast Test Request,	4	
5	is marked for identification.)	5	THE WITNESS: Well, yeah, because
6	MS. DeFILIPPO: Give me the number	6	in my review of the test, I had this one marked
7	so I can	7	as a failed test. I'm just trying to from
8	MR. STOCKWELL: Oh, the sticker	8	this info, it's not obvious.
9	number?	9	MR. STOCKWELL: Maybe I have it in
10		10	MS Deel IDDO, Well it wished
11	MS. DeFILIPPO: No, the test number.	11	MS. DeFILIPPO: Well, it might be
12		12	on this page. Why don't you check?
13	MR. STOCKWELL: Oh, the test number? 5199.	ŧ	THE WITNESS: It is the same thing
14		13	where it didn't hold the pressure check.
15	MS. DeFILIPPO: 5199?	14	BY MR. STOCKWELL:
1	MR. STOCKWELL: Yeah.	15	Q And that's your reason for calling
16 17	THE WITNESS: It's	16	it a failed test?
1	MS. DeFILIPPO: This you have a	17	A Yes.
18	funny piece of paper in there.	18	MS. DeFILIPPO: It is a failed
19	MR. STOCKWELL: Yeah. That's the	19	test, right?
20	way it's in the thing. See if you can read the	20	MR. STOCKWELL: Chrysler has it
21	rest of it.	21	listed as a passed test, that's why I'm
22	MS. DeFILIPPO: That's the way it's	22	wondering.
23	in from Chrysler?	23	MS. DeFILIPPO: They do?
24	MR. STOCKWELL: Yeah.	24	MR. STOCKWELL: Yeah.
25	MS. DeFILIPPO: Does this test,	25	MS. DeFILIPPO: Where do they have
	211		213
1	5199, have a video and pictures and all that?	1	it listed as a passed test?
.2	MR. STOCKWELL: Uh-huh.	2	MR. STOCKWELL: In whatever Sheila
3	MS. DeFILIPPO: Do you have them?	3	sent to us.
4	Obviously, you don't have the video, but where	4	MS. DeFILIPPO: Really? I have to
5	are the still pictures on them?	5	tell you, I have it listed as a fail, also, in
6	MR. STOCKWELL: Only if they're	6	what she sent to me. So if you can show me
7	there would I have them.	7	that, I'd be interested.
8	MS. DeFILIPPO: Sheila	8	BY MR. STOCKWELL:
9.	MR. STOCKWELL: Oh, wait. Wait,	9	Q Regardless, though, you have it as
10	wait, wait, wait.	10	a failed test because of the fuel pressure
11	MS. DeFILIPPO: Sheila testified	11	issue, right?
12	MR. STOCKWELL: 5199?	12	A Correct.
13	MS. DeFILIPPO: Yeah. Sheila	13	Q All right. But there was no gas
14	testified on the record that if there are no	14	leakage in that test?
15	pictures, they don't that Chrysler never did	15	A Not in the rollover, no.
16	them. But if there	16	Q How about in the direct impact?
17	MR. STOCKWELL: I'm pretty sure	17	A Doesn't appear to be.
18	there were pictures.	18	Q Was there a full prop shaft in that
19	MS. DeFILIPPO: are pictures,	19	test?
20	she would have had them.	20	A That one, I believe so. I think it
21	MR. STOCKWELL: I probably didn't	21	had a full-size spare and it had a Canadian
22	print them out, but they're there. If you need	22	bumper. I'm not sure how much different that
23	to look at them.	23	is.
24	MS. DeFILIPPO: If you need them or	24	Q The Canadian bumper?
25	any other part of this to answer any	25	A Yeah.
	1	1	a a works

214 216 1 Any reason to believe it's 1 don't think anybody could tell on that one. 2 manufactured any differently than the American 2 And you probably want to see a 3 bumper? 3 photograph of the hole in the frame rail to see 4 A Yeah. I think at that time Canada 4 if it's deformed or not, right? 5 actually still had a stricter bumper 5 I mean, if it's deformed beyond 6 requirement, so it may have had a -- it may not 6 where the hose could fit in, that would be an 7 have been an appropriate car to use for U.S. 7 indication, yeah. And just -- some kind of 8 certification. 8 measurement on where the tank ends up versus 9 9 Q Okay. where the frame rail hole ends up. 10 10 MS. DeFILIPPO: How many pages did MR. STOCKWELL: Thank you. you give him? 11 11 MS. DeFILIPPO: Are you done? 12 You said, "certification." Is that 12 MR. STOCKWELL: I'm done. Sorry. 13 **RECROSS-EXAMINATION** a certification test? 13 14 A No. 14 BY MS. DeFILIPPO: 15 Q What kind of test is that? 15 Mr. Hannemann, if a frame rail 16 A I'm not sure they called it -- it 16 hole, the hole in the frame rail on the left 17 might be -- that's a development test. 17 side where the filler hose and the fuel hose go 18 One last issue. Ms. DeFilippo 18 through, is slightly or not closed or deformed, 19 asked you again about the fuel filler hose. 19 in a -- hypothetically, in a situation where 20 And I just want to make sure we're clear. 20 you have a rear-end hit, can the hose and 21 Your basis for saying that it's a 21 the -- both the filler hose and the vent hose 22 possibility that the fuel filler hose separated 22 for the fuel tank still be pulled out? 23 from the Kline fuel tank is based on a witness 23 A Sure. 24 statement and a police report that said the 24 Q And the --25 fire was immediate? 25 A The holes ---215 217 1 A Yes. 1 How does that happen? Just Q 2 Is there anything else? Any Q 2 explain. 3 3 physical evidence, other than that, that you're Well, that would be due to the 4 relying on? 4 relative motion. So -- and I was asked about 5 5 There's -- well, yeah. The other the hole being deformed, that would be a for 6 things I'm relying on are the fact that after 6 sure indication. But if the hole's not 7 7 Chrysler rerouted the hose, the death rate deformed, it's then up to the relative motion 8 dropped on the WJ -- the subsequent vehicle. 8 between the tank and the rail. And that could 9 So that shows getting that fuel filler hose out 9 easily still disconnect the hose from the tank. 10 of the frame rail improved the situation. 10 So let's assume for a minute that 11 And then two tests, there's a 11 the rail is bent, whether it's bent up, down, 12 Chrysler test where there was an immediate 12 Z-form, however it's bent, if the frame rail is leak. And the FHWA test, there was an 13 13 bent, would that be an indication that the hose 14 immediate leak. 14 is pulled from the tank --15 And the Karco, I'm not sure I --15 MR. STOCKWELL: Objection to the 16 maybe that one, but the pictures weren't clear 16 form. 17 to me if the leak was immediate. 17 -- in a rear-end hit scenario? Q 18 Q Okay. 18 A Yeah. My impression looking at the 19 Definitely the FHWA had it, just an 19 A vehicle, there's enough deformation there that 20 immediate fuel leak. 20 there's -- it's extremely unlikely that the 21 O Okay. Anything about this specific 21 tank and rail moved together in that whole 22 accident, though? 22 motion. 23 On this one? 23 A And there's not much latitude for 24 Physical evidence on this vehicle. 24 Q deformation. You need -- the relative motion

25

has to be very small, as opposed to something

No. It's just too hard to tell. I

25

we talked about earlier in the deposition, the 2012 Mustang, which has a hose going to the rail.

But the Mustang is different. The hose takes 90-degree and it travels a long path. And it's got a rubber section that would allow a lot more deformation.

But the Jeep's pretty well connected and just small amounts of deformation and difference would take the hose off.

Q And that Mustang you're talking about is the one, you testified earlier, is currently being made with that?

A Correct. I was asked a question about other cars with a hole in the rail. And the new Mustang does have that, but it has a lot of other design features that mean it's probably okay, certainly a lot better than the Cherokee. It's probably not defective, but there's so many other things around that design to make it work. And I still would consider it a poor design practice, but, you know, it may or may not be a defect.

Q With respect to this test 5199 that we've marked D-5, or at least a portion of the

failure, is there a requirement to -- can you -- let me ask you -- strike that.

Once you test a vehicle with a certain configuration and you get a failure, should -- can you still make the vehicle with that configuration without making some change?

A I think it's irresponsible to do that. Can somebody do it? Sure.

Q Well, I mean, is it prudent engineering practice?

11 A No.

Q Is it within engineering standard to do such a thing?

A It's -- I'm not -- the term "standard" I wouldn't necessarily --

Q Standard, prudent engineering practice?

A Standard practice. Once you're aware of an issue, you have a responsibility to address it or accept the risks. There's no such thing as a perfect car. You have to recognize and accept the risk.

Q If, hypothetically, the Susan Kline fuel tank was moved to the mid-ship location, center of the car location, and you removed the

1 defect, which you have defined as the

test results which were provided by ChryslerCorporation, there's a section that says

Corporation, there's a section that says"mechanical required," or "r-e-q." And then

4 underneath it says "Add," a-d-d." It says,

5 "Remove trailer hitch and fuel tank skid plate, and then, "Add," "install full-size spare

7 tire."

Did you see that --

A Yes, I did.

Q -- on this particular test?

A Yes.

Q What does that refer to?

A What that means is this particular vehicle they were going to test, so mechanical req -- r-e-q is requisition. And somebody wanted to take off the trailer hitch and skid plate that this vehicle was likely equipped with.

But then they wanted to take out the compact spare and put a full-size spare in. So it's just getting the car in the configuration that they wanted to test it in.

Q Can you tell me your opinion with respect to once you test with a certain configuration and you recognize that there's a

defect, which you have defined as the tank being located behind the axle, do you need then in that scenario to fix the structure with a skid plate or a trailer hitch?

A I would think the structure would probably be sufficient as it is.

MS. DeFILIPPO: I have nothing else.

FURTHER REDIRECT-EXAMINATION BY MR. STOCKWELL:

Q You haven't done any testing or any scientific analysis to determine whether there would have been a fire in this accident if Ms. Kline's fuel tank was located mid-ship, do you?

A No, I've not done any testing.
MR. STOCKWELL: Thank you.
MS. DeFILIPPO: Just one more
question.
FURTHER RECROSS-EXAMINATION
BY MS. DeFILIPPO:

Q From your inspection of the vehicle, the Susan Kline vehicle on the day that you inspected it, was there damage to the midsection where the tank could have been

	222	
1		
1	located?	
2	MR. STOCKWELL: Objection to the	
3	form.	
4	Q Ahead of the axle instead of behind	
5	the axle?	
6	A Well, the you know, the axle	
7 8	did intrude into that area. So your earlier	
9	question about the structure, it may have been necessary to improve the structure enough so	
10	the rear axle would not intrude into that area.	
11	So I certainly, it's a lot	
12	easier, structurally, if the tank's mid-ship,	
13	but the Cherokee might still have taken some	
14	kind of structural modification.	
15	MS. DeFILIPPO: Thank you.	
16	MR. STOCKWELL: Thanks for your	
17	time, Mr. Hannemann. Appreciate it.	
18	THE WITNESS: You're welcome.	
19	MR. STOCKWELL: It was a pleasure.	
20	Very informative.	
21	, -, ,	
22	(Exhibits D-1 through D-5 are attached	
23	hereto.)	
24	,	
25	(The proceedings are concluded at 3:57 p.m.)	
	223	
1	CERTIFICATE	
2	CERTIFICATE	
3	I CERTIFY that the foregoing is a	
4	true and accurate transcript of the testimony	
5	and proceedings as reported stenographically by	
6	and before me at the time and place	
7	aforementioned.	
8	I FURTHER CERTIFY that I am neither	
9	attorney for nor counsel of any of the parties;	
10	parties of any of the attorneys in this action;	
11	and that I am not financially interested in the	
12	action.	
13		
14		
15	REGINA A. CRITCHLEY, C.C.R.	
16	Notary Public of the State of New Jersey	
17	Certificate No. XI1046	
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## CERTIFICATE

I, REGINA A. CRITCHLEY, hereby certify that the foregoing is a true and accurate transcript of the testimony and proceedings as reported

stenographically by and before me at the time, place and on the date hereinbefore set forth.

I do -further\_certify that I\_am\_neither a relative nor employee nor attorney or counsel of any of the parties in this action, and that I am neither a relative nor employee of such attorney or counsel, and that I am not interested in the action.

Public of the State of New Jersey

Certificate No. XI1046

This transcript was prepared in accordance with N.J.A.C. 13:43-5.9