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OFFICE OF DEFECTS.

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March 11, 2004

Thomas Cooper, Chief
Vehicle Integrity Division, CCI
U. 2. Department of Transportation
National Highway Traffic Salety Administration:
400 Seventh Street, S.W.
Westington, D.C. 20390

Subject: NVS-2120ag, EA03-025: "Audi A6 Passenger Compartment Pira"

Deer Mr. Gooper,

This resignate to your letter detect demany 15, 2004, concerning ellegations received by your agency of driver's side pessenger compartment tree in Model Year 1999-2009 April 48 vehicles.

For your convenience, each request is repeated verbaling and followed by our response:

Please cortical me if you have sty questions of request any further intermetters.

Sincerely.

(John Maddox

Product Compliance Officer Volkspagen of America, Inc.

End., EA65-026 Data Collection Disc (CD-ROM)

Question 1

State, by model and model year, the number of subject vehicles VW has manufactured for sale or lease in the United States that were not previously provided to ODI in its response to ODI's PEIR letter for PE03-035. Separately, for each subject vehicle manufactured to date by VW, atere the following:

- Vehicle Identification number (VIN);
- b. Model:
- Model Year (MY);
- Date of manufacture;
- e. Date warranty coverage commenced; and
- The State in the United States where the vehicle was originally sold or lessed (or delivered for sale or lease).

Response 1

There are no additional subject vehicles that were not previously provided to ODI in VW's response to the PEIR. The following information was provided in response 1 to the PEIR. and is repeated below for your convenience.

Model	Model Year	Seles
A6 and A6 Avant	1099	24,803
	2000	26,288
	Total	61,091

Source: BO Business Objects Vahiole Universe

Gathered: August 11, 2003

Our responses to subparegraphs at through f. are provided in a Microsoft Excel data file entitled "01 Production-Data (EA03-025).xis", on the enviceed EA03-025 data collection disc.

Question 2

State the number of each of the following, received by VW, or of which VW is otherwise aware, which relate to, or may relate to, the alleged defect in the subject vehicles:

- Consumer complaints, including those from fleet operators;
- Field reports, including dealer field reports;
- Reports involving a crash, injury, or fability, based on claims against the manufacturer involving a death or injury, notices received by the menufacturer alleging or proving that a death or injury was caused by a possible defect in a subject vehicle, property demage claims, consumer complaints, or field reports:
- d. Reports involving a fire, based on claims against the manufacturer involving a death or injury, notices received by the manufacturer alleging or proving that a death or injury was caused by a possible defect in a subject vehicle, property damage claims, consumer complaints, or field reports;
- e. Property damage claims;
 f. Third-party arbitration pro Third-party arbitration proceedings where VW is or was a party to the arbitration; and
- g. Lawauits, both pending and closed, in which VW is or was a defendant or codefendant.

For subparts "a" through "d." state the total number of sech item (e.g., consumer complaints, field reports, etc.) separately. Multiple incidents involving the same vehicle are to be counted

separately. Multiple reports of the same incident are also to be counted separately (i.e., a consumer complaint and a field report involving the same incident in which a crash occurred are to be counted as a crash report, a field report and a consumer complaint).

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

Response 2

- a. In response to the PEIR and to this inquiry, VW has identified a total of 38 consumer complaints, involving 31 vehicles, that are related to the alleged defect. (Please refer to table "Cases_Overview_(EA03-025).pdf", on the enclosed EA63-025 data collection disc.)
- b. In response to the PEIR and to this inquiry, VW has identified a total of 23 field reports, involving 22 vehicles. Twenty-two of these reports relate to the 38 consumer complaints identified above. One field report refers to an additional vehicle. (Please refer to table "Cases_Overview_(EA03-028).pdf", on the enclosed EA03-028 data collection diec.)
- c. In response to the PEIR and to this inquiry, VW has not identified any reports involving a creek, injury, or fatality, based on claims (including property demage claims, consumer complaints, or field reports) or notices against the manufacturer that are related to the alleged defect.
- d. In response to the PEIR and to this inquiry, VW has identified a total of 32 vehicles that have reports involving a fire, based on NHTSA's definition of fire in 49 GPR 57\$.4, that are related to the alleged defect, based on consumer complaints and field reports. None of these involve death or injury. VW did not identify any additional unique reports of fire from claims against the manufacturer, notices received by the manufacturer, or property damage claims. (Please refer to table "Cases_Overview_(EA03-025).pdf", on the enclosed EA03-025 data collection disc.)
- In response to the PEIR and to this inquiry, VW has identified a total of 1 property
 damage claim related to the alleged defect. This claim vehicle is included in the 31
 vehicles with consumer complaints mentioned under a. above.
- f. In response to the PER and to this inquiry, VW has not identified any cases of third-party arbitration proceedings that are related to the alleged defect.
- g. In response to the PEIR and to this inquiry, VW has not identified any lawsuits, either pending or closed, that are related to the alleged defect and in which VW is a defendant or codefendant.

Source, Date Gethered:

s) CR Listen Database, March 5, 2004

b) TACS Bystem, January 26, 2804; Product Liabon, February 27, 2004

Product Listeon, February 27, 2004

Question 3

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

- W's file number or other identifier used;
- The category of the Item, as Identified in Request No. 2 (i.e., consumer complaint, field report, etc.);
- c. Vehicle owner or fleet name (and fleet contact person), address, and telephone number.
- d. VIN:
- Model and model year;
- f. Vehicle mileage at time of incident;
- g. Incident date;
- h. Report or claim date;
- Whether a cresh is elleged;
- Whether a fire is alleged;
- k. Whether property damage is alleged;
- I. Number of elleged injuries, if any, and
- m. Number of alleged fatalities, if any.

Response 3

Our responses to subparagraphs a, through m, are provided in a Microsoft Excel file entitled "03_Complaint-Cata_(EA03-025).xis", on the enclosed EA03-025 data collection disc.

Question 4

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

Response 4

In response to the PEIR and to this inquiry, VW has identified 75 sets of documents, related to 32 unique vehicles: 38 documents are related to Consumer Complaints, 33 documents are related to Pieid Reports, and 2 documents are related to Other Claims. The documents are organized according to table "Cases_Overview_(EA03-028).pdf", and are provided under the folders "Question-No-04...", on the enclosed EA03-028 data collection dies.

Question 6

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

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

- Ws cisim number.
- Vehicle owner or fleet name (and fleet contact person) and telephone number;
- c. VIN:
- d. Repair date:
- Vehicle mileage at time of rapair;
- f. Repairing decier's or facility's name, telephone number, city and state or ZIP code:
- g. Leber operation number.
- h. Problem code:
- Replacement pert number(s) and description(s);
- Concern or atatements stated by oustomer; and
- k. Comment, if any, by dealer/technician relating to claim and/or repair.

Response 6

in response to the PEIR and to this inquiry, VW has identified a total of 20 warranty claims, including 5 buybacks, involving 20 subject vehicles, relating to the elleged defect.

14 of these 20 Vivis are duplicative of consumer complaints reported in response to Question 2; 5 Vivis refer to other vehicles.

Of these 20 warranty claims, a total of 6 claims are related to Mortel Year 1899 56 vehicles.

Of these 20 warranty claims, a total of 6 claims are related to Model Year 1999 A6 vehicles, and a total of 14 claims are related to Model Year 2000 A6 vehicles.

Our responses to subparagraphs a. through k. are provided in a Microsoft Excel file entitled "05_Warranty-Data_(EA03-025).xis", on the enclosed EA03-025 data collection disc.

Question 6

In VW's response to Request No. 6 of the PEIR letter, VW identified *4 buybacks in its review of field reports." For each buyback, including any buybacks since VW's response deted September 19, 2003, describe in detail:

- a. VIN
- b. Model Year,
- c. Vehicle owner or fleet name (and fleet contact person):
- d. Owner's address;
- e. Owner's telephone number (include area code);
- Vehicle mileage at time of repair;
- g. Repairing dealer's or facility's name:
- h. Receiring dealer's address:
- Repairing dealer's telephone number (include area code);
- . Status of vehicle (repaired, totaled, etc);
- k. Current location of the vehicle;
- Brief summary of dealer/technician findings and/or conclusions;
- m. Name of the VVV employee who authorized the buyback;
- identify any non-dealer report, assessment, analysis, study, test, available or investigation performed by, or on behalf of, any VW employee or representative on the buyback;
- o. Date of the buyback
- p. State the rationale for the buyback;
- Describe the actions taken by VW with the buyback vehicle, i.e. what did VW do with/to the buyback vehicle; and
- Discuss any follow up or "other actions" taken with the buybacks.

Response 6

in response to the PEIR and to this inquiry, VW has identified a total of 5 buybacks. All 5 vehicles refer to vehicles that were reported in response to question 2.

Our responses to subparagraphs at through r. are provided in a Microsoft Excel file entitled "05_Buyback_Data_(EA03-025).xis", on the enclosed EA03-025 data collection disc.

Question:7

Produce copies of all service, warranty, and other documents that relate to, or may relate to, the alleged defect in the subject vehicles, that VW has issued to any dealers, regional or zone offices, field offices, fleet purchasers, or other entities. This request includes, but is not limited to, bulletins, advisories, informational documents, training documents, or other documents or communications, with the exception of standard shop manuals. Also include the latest draft copy of any communication that VW is planning to issue within the next 120 days.

Response 7

In response to the PEIR and to this inquiry, VW has not identified any documents that relate or may relate to the alleged defect in the subject vehicles, that VW has besied to any dealers, regional or zone offices, field offices, fleet purchasers, or other entities. VW does not yet have any documents it is planning to issue within the next 120 days.

Question 6

in VW's response to Request No. 8 of the PEIR letter, data are provided in a file entitled "08_Analyses_(PE03-036).xis." That file includes folders entitled "table for answer 4(1)" and "table for answer 4(2)." Explain in detail the relevance of these folders to Request No. 8 of the PEIR letter and describe what the tables recressent.

Response 8

Request No. 8 of the PEIR saked VW to provide all documents related to any action regarding vehicles with the alleged defect that VW has conducted. The intent of these tables was to summerize the raw data in one single file to aid VW in preparing its response to Request No. 4 of the PEIR.

Question 9

Request No. 8 of the PEIR letter requested information regarding "assessments, tests and/or evaluations" conducted or being conducted by VW that relate to, or may relate to, the alleged defect in the subject vehicles. VW's reply on September 18, 2003, does not provide all the requested information. Provide a clear and detailed response to the following request.

Describe all assessments, analyses, tests, test results, studies, surveys, simulations, investigations, inquiries and/or evaluations (collectively, "actions") that relate to, or may relate to, the alleged detect in the subject vehicles that have been conducted, are being conducted, are

planned, or are being planned by, or for, VW. This response shall include but not be limited to analysis, testing etc. of all vehicle buybacks and related to the alleged defect. For each such action, provide the following information:

- a. Action title or identifier;
- The actual or planned start date;
- The actual or expected end date;
- d. A brief summary of the subject, a description of all components, and the objective of the action:
- Engineering group(a)/supplier(a) responsible for designing and for conducting the action;
- f. A brief summary of the findings and/or conclusions resulting from the action. If no common origin has yet been identified, describe in detail all theories and/or assumptions of the cause of the fire. Identify each component VW examined, analyzed, tasted and studied to ascertain the cause of the dash fires, and explain in detail the result of each test, analysis, and study performed by VW.

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

Response 9

in response to question 8 of the PEIR, VW identified the following:

- Action Identifier: Preliminary Evaluation of Responsive Data Sources.
- b. Start date: August 2003.
- c, End date: TBD
- d. Objective: Date collection of available information related to the alleged defect in order to determine the reasons for the customer concerns.
- e. VWoA and AUDI AG (Technical Development, Quality Assurance).
- f. A common origin for the reported fire cases could not be identified.

At that time, no final origin of the fire cases could be identified.

Since that time, VW has conducted the following actions:

- (a) Analysis for Fire Origin.
- lb) September, 2003.
- le) March 9, 2004.
- I d) Categorization of 39 cases to assess root cause.

 The final categorization was done based on the results from Action II after March 5, 2004.
- (a) AUD! AG Consumer Protection, AUD! AG Product Analysis.
- (f) VW has concluded that an electrical short, due to a physical contact of the left driver's side crash element with the headlight switch wiring harness (including circuits leading to the instrument cluster, temperature sensor, etc.), is the root cause for the vast majority of these cases.
- II a) Manheim Auction Site Vehicle Investigation.
- II b) February 11, 2004.
- N c) March 5, 2004.
- If d) On February 11, 2004, Audi of America Product Compliance inspected 39 vehicles. In the Auction Center in Manheim, PA, in order to get a broader overview of the

alleged defect. The dashboard area was investigated, and findings were documented.

II e) Audi of America Product Compliance.

b f) Due to this investigation, VW found one confirmed and one potential condition that might contribute to the slieged defect; for details see .pdf files entitled "69_Action—II_Manheim_Report_(EA03-025).pdf" and "09_Action—II_Manheim_Notes_(EA03-025).pdf" on the enciosed EA03-025 data collection disc.

Copies of the related documents are provided in the folder "Question-No-09" on the enclosed EA03-025 data collection disc.

Question 10

Request No. 9 of the PEIR letter requested information regarding "modifications and changes" to all components from the start of production to date, which relets to, or may relate to, the alleged detect in the subject vehicles or the subject components. The response provided in VVV's letter dated September 19, 2003, is not clear and does not provide all the requested information. Provide a clear and detailed response to the following request.

Describe all modifications or changes made by, or on behalf of, VW in the design, material composition, manufacture, quality control, supply, or installation of the subject component(s), from the start of production to date, which relate to, or may relate to, the alleged defect in the subject vehicles. This response shall include but not be limited to descriptions of modifications or changes to the headlight switch and/or the headlight switch wiring harness. For each such modification or change, provide the following information:

 The date or approximate date on which the modification or change was incorporated into vehicle production;

b. A detailed description of the modification or change;

The reason(s) for the modification or change;

d. The part numbers (service and engineering) of the original component;

The part number (service and engineering) of the modified component;

 Whether the original unmodified component was withdrawn from production and/or sale, and if so, when;

When the modified component was made available as a service component; and

 Whether the modified component can be interchanged with earlier production components.

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

Response 10

According to response 9, VW has concluded that an electrical short, due to a physical contact of the left driver's side crash element with the headlight switch wiring harness (including circuits leading to the instrument cluster, temperature sensor, etc.), is the root cause for the vest majority of the identified incidents.

The part number for the left driver's side creek element is 481.880.481; detailed information about the headlight switch wiring homees, for which there is no individual part number due to its modular concept, can be taken from the technical drawings TAB 904.827 QK/QE, which are submitted together with this response.

For the model years 1999 and 2000, there have been no modifications in these parts or in the assembly process related to the alleged defect.

Question 11

Request No. 10 of the PEIR letter requested information regarding "parts and kits sold" from the start of production to date, which relate to, or may relate to, the alleged defect in the subject vehicles. The reply provided in VVV's letter dated September 19, 2003, is not clear and does not provide all the requested information. Provide a clear and detailed response to the following request.

State the number of all parts and assemblies related to the alleged defect (including any kits or any subject components that have been released or developed for use in service repairs) that YW has sold for use in the subject vahicles to date by component name, part number (both service and engineering/production), model and model year of the vehicle in which it is used and month/year of sale, including the out-off date for sales, if applicable. This response shall include but not be limited to sales of the headlight switch and/or the headlight switch wiring harriess.

Identify by make, model and model year, any other vehicles of which VVV is aware that contain the identical component or kit, whether installed in production or in service, and state the applicable dates of production or service usage.

Response 11

The part number for the left driver's elde creek element is 481,880 481; the part numbers for the headlight switch wiring harness (spere parts only) are 481,871,316 B/C/D; the Part number for the headlight switch is 481,941,831 B B98.

The respective parts sales information is provided in a Microsoft Excel file entitled: "11_part_sales_48_months_(EA03-025).xis", on the enclosed EA03-025 Date Collection disc.

These parts are also used in service for 1998 and 2001 through 2004 model year A6 vehicles, i.e., the whole A6 peculation beginning with Model Year 1998.

YW believes that the sales of these parts are not related to the alleged defect in the subject vehicles.

Question 12

Request No. 11 of the PEIR letter requested a comparison of the MY 1998 through MY 2001 vehicles which relate to, or may relate to, the elleged detect in the subject vehicles. This response provided in VVV's letter dated September 19, 2003, is not clear and does not provide a response to the request. Provide a clear and detailed response to the following request.

Compare and contrast the design, manufacturing and production changes in the Audi Aft for the following model years, as they relate to the subject component(s) in the subject vehicles:

MY 1998 to MY 1999; and MY 2000 to MY 2001

Resconse 12

For the model years 1996 through 2001 there have been no modifications related to the alleged defect in any of the subject parts or assembly processes mentioned in the responses to 10 and 11.

Question 13

Request No. 12 of the PEIR letter requested an "assessment of the elleged defect in the subject vehicle." The response provided in VW's letter dated September 19, 2003, is not clear and does not provide a response to the request. Provide a clear and detailed response to the following request.

Furnish VW's assessment of the alleged defect in the subject vehicles, including:

- a. The causal or contributory factor(s);
- b. The failure mechanism(s);
- c. The falure mode(s):
- The effect(s) of the failure on the system components and to mating components/systems;
- e. The risk to motor vehicle safety that it poses;
- f. What warnings, if any, the operator and the other persons both holds and outside the vehicle would have that the alleged defect was occurring or subject component was malfunctioning:
- g. A description of the analysis process used to essess items "s" through "f," and
- h. The reports included with this inquiry.

Response 13

- a/b.VW has concluded that physical contact of the left driver's side crash element with the headlight switch wiring harness (including circuits leading to the instrument cluster, temperature sensor, etc.) could result in an electrical short.
- old. Even though such an electrical short is not very likely, it could result, in a worstcase scenario, in a fire originating in the left deshboard area.
- Due to the information obtained in the investigations related to this inquity, VW
 cannot exclude the possibility of further similar instances, and thus will submit a
 "573" Report.
- In all of the cases investigated, the occupants had enough warning, either through an odor or the sight of smoke, to exit the vehicle earlely.
- g/h. For a, through d., see response 9.
 For f., VW thoroughly reviewed consumer complaints, warranty claims, and field reports.

Question 14

List, by make, model, and model year, the vehicles, other than the subject vehicles, that VW sells, offers for sale, sesembles or manufactures using any or all of the subject components. State the number of each make and model, and state the number of reports concerning the elleged defect received by VW.

Response 14

As described above in Response 10 and 11, the parts related to the alleged defect are also used in 1988 and 2001 through 2004 model year A5 vehicles. They are not used in any other VW vehicles.

VW is aware of 1 additional report concerning the alleged defect in a model year 1998 A6 vehicle and 2 additional reports concerning the alleged defect in 2 model year 2001 A6 vehicles.

Question 15

Describe the production processes, material compositions, including properties and specifications, used in the construction of the instrument panel, fuse box, sir conditioning ducts, and any other components of the final assembly IP in the subject vehicles.

Респолее 15

According to our findings, and as stated in responses 11 through 14, VW has identified the root cause and remedial action. VW will provide this information upon request.

Question 16

Provide engineering drawings and specifications for final essembly IP's that were or are original equipment or replacement equipment designated by VW for use in the subject vehicles. Also provide engineering drawings and specifications for the sub-components of the IP.

Information in the drawings should include dimensioning and tolerances, all IP and vehicle applications for which the components and aub-assemblies were intended, as well as assembly instructions.

Response 16

A set of technical drawing cheets will be provided under a separate cover, with a request for confidentiality, upon request.

Appendix

Hardcopy of the .pdf (ile "Cases_Overview_(EA03-026).pdf" on the enclosed EA03-026 Data Collection disc: Overview of "Consumer Complaints"; "Field Reports and Other Claims", and "Warranty and Buyback Claims":

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2	WAUGH248XYN001712				(2)		
3	WAULH2496YN122273		1	1	2	 	1 1
4	WALLEH24B3YNG01006		- 1	7	2	 	1
	WALEA2488XN044724				:	 	†
8	WALEA2487X0\106606		2	1 1	2		1
7	WAURA248XXN053288		1	11	2	<u>† </u>	<u> </u>
	WALEA248837865550		1		2	1	1
4	WALEAZIETXN169671				2		1
10	WAUEHZ483YN010443		2		2		1
11	WAUBASABSXN061714					1	1
12	WALIBA248800012863		- 1	1	2	<u> </u>	
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20	WAULF248 TYNG27216			1	1	1 1 _	T
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35	WALIBASHBASH/MONT/		1	1	1	1	j. 1.
30	WALIBA24B4XN037947			1	1 14		1.
37	WALEH64B2YN073642				<u> </u>	1	_
36	WALEH64B7YN126428		1		1	1	<u> </u>
39	WALBA24B4XN111106		1		:t		
	if of counts:		36	23	33	15	- 5

⁷ Subregation Claim only.