OMB Control Number: 0694-0120

Expiration Date: 01/31/2019

Section 232 National Security Investigation: Imports of Automobiles and Automotive Parts



SCOPE OF ASSESSMENT

The Bureau of Industry and Security (BIS), Office of Technology Evaluation (OTE), is conducting a survey of the automobile and/or automotive parts industries. The survey, requested by the Office of the Secretary of the U.S. Department of Commerce, will be used to support an investigation initiated under Section 232 of the Trade Expansion Act of 1962, as amended. The investigation was requested by the President of the United States. As part of this investigation, BIS is also surveying the armored vehicle industry to determine the level of overlap in supply chains, research and development, labor force, and other factors relevant to the investigation.

The principal goal of this survey is to assist the Commerce Department in determining whether automobiles and/or automotive parts are being imported into the United States in such quantities or under such circumstances as to threaten to impair the national security. Information collected will include facilities and production data, joint ventures, trade flows, supply chain data, sales and demand data, employment information, conditions of competition, research and development information, and government and defense activities. The resulting aggregate data will give the Commerce Department detailed industry information that is otherwise not publicly available and needed to effectively conduct its analysis.

RESPONSE TO THIS SURVEY IS REQUIRED BY LAW

A response to this survey is required by law (50 U.S.C. Sec. 4555). Failure to respond can result in a maximum fine of \$10,000, imprisonment of up to one year, or both. Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C. Sec. 4555). Section 705 prohibits the publication or disclosure of this information unless the President determines that its withholding is contrary to the national defense. Information will not be shared with any non-government entity, other than in aggregate form. The information will be protected pursuant to the appropriate exemptions from disclosure under the Freedom of Information Act (FOIA), should it be the subject of a FOIA request.

Notwithstanding any other provision of law, no person is required to respond to nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number.

BURDEN ESTIMATE AND REQUEST FOR COMMENT

Public reporting burden for this collection of information is estimated to average 20 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to BIS Information Collection Officer, Room 6883, Bureau of Industry and Security, U.S. Department of Commerce, Washington, D.C. 20230, and to the Office of Management and Budget, Paperwork Reduction Project (OMB Control No. 0694-0120), Washington, D.C. 20503.

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	General Instructions
	Your organization is required to complete this survey of the armored vehicle industry using an Excel template, which can be downloaded from the BIS website: http://bis.doc.gov/autos232 If you are not able to download the survey document, at your request, Commerce staff will e-mail the Excel survey template directly to
Α.	you. For your convenience, a PDF version of the survey and required drop-down content is available on the BIS website to aid internal data collection. DO NOT SUBMIT the PDF version of the survey as your response to BIS. Should this occur, your organization will be required to resubmit the survey in the requested Excel format.
	Respond to every question. Surveys that are not fully completed will be returned for completion. Use the comment boxes to provide any information to supplement responses provided in the survey form. Make sure to record a complete answer in the cell provided, even if the cell does not appear to expand to fit all of the information.
В.	DO NOT CUT AND PASTE RESPONSES WITHIN THIS SURVEY OR PASTE IN RESPONSES FROM OUTSIDE THE SURVEY. Survey inputs should be completed by typing in responses or by using a drop-down menu. The use of cut and paste can corrupt the survey template. If your survey response is corrupted as a result of cut and paste responses, a new survey will be sent to your organization for immediate completion.
D.	Do not disclose any USG classified information in this survey form.
E.	Upon completion of the survey, final review, and certification, transmit the survey document via e-mail to : autos232@doc.gov .
	Questions related to the survey should be directed to BIS survey support staff at autos232@doc.gov .
F.	E-mail is the preferred method of contact.
	You may also speak with a member of the BIS survey support staff by calling (202) 482-4358.
	For questions related to the overall scope of this Industrial Base assessment, contact autos232@doc.gov or:
G.	Brad Botwin, Director, Industrial Studies Office of Technology Evaluation, Room 1093 U.S. Department of Commerce 1401 Constitution Avenue, NW Washington, DC 20230
	DO NOT submit completed surveys to Mr. Botwin's postal or personal e-mail address. All surveys must be submitted electronically to autos232@doc.gov .
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Previous Page	Definitions Next Pag Definition
Term Advanced Battery	Definition The cells, modules/arrays, internal cooling loops, control and balancing boards and pack cases meeting performance capabilities for some or all motive power in any interstate highway capable vehicles for the model
Advanced Battery Advanced Battery Cells	years they are commercially marketed. The battery cells meeting performance capabilities for some or all motive power in any interstate highway capabil
	vehicles for the model years they are commercially marketed. A systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met. This activity includes work leading to the production of useful materials, devices.
Applied Research	and systems or methods, including design, development, and improvement of prototypes and new processes.
Armored Vehicle	For purposes of this questionnaire, "armored vehicle" refers to motorized armored fighting vehicles intended for military activities, including all-terrain vehicles, tactical vehicles, transport vehicles and cargo vehicles, but not including tanks.
Authorizing Official Autonomy	An executive officer of the organization or business unit or another individual who has the authority to execute this survey on behalf of the organization. Technology related to vehicles with any electronic system that influences the lateral or longitudinal operation (or
Auto parts	both) of a wehide meeting SAE levels 2-5 for driving automation. All components for production/assembly of passenger acrs. SUKY vans and light trucks, including engines and engine parts, electrical and electronic equipment, steering and surgension components, brake systems, resemblished and power train parts, seating and shrefor trin, metal stamping, and other parts and accessories. Also includes redulin motor vehicle parts.
Basic Research	A systematic, scientific study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts.
Body and Frame Braking Systems	The main body panels, secondary panels, structural panels, frames, subframes, door lids and hinges. Disks, pads, drums, shoes, lines, hoses, calipers, master cylinders, seals, power boosters, anti-lock brake controls,
Capital Expenditures	sensors and related components. Investments made by an organization in buildings, equipment, property, and systems where the expense is depreciated. This does not include expenditures for consumable materials, other operating expenses, and salaries associated with normal business operations.
Connectivity/Connected Car	Ability to exchange digital information between a vehicle and other entities (e.g., another vehicle, infrastructure); vehicles that are able to communicate, either directly or through intermediaries, with other vehicles, infrastructure, and devices.
Design Facility	A space or studio with personnel who use design software, intellectual property, supporting computer systems, engineering and other information technology to create auto parts and automobiles, including cars, SUVs, vans and light trucks.
Development	The design, simulation, and testing of a prototype, including experimental software or hardware systems, to validate technological feasibility or concept of operation in order to reduce technological risk, or provide test systems prior to production approval.
Drive Components	The axle shafts, housings, hubs, carriers, differentials and related subassemblies such as gears, bearings, springs, gaskets and seals.
Electric Drive Motors	Any electric motors used to provide some or all motive power.
Electrical Sytems	Lights, alternators, starters, window motors, switches, relays and related wiring.
Electrification	Technology for vehicles receiving some degree of motive power via electrical energy and an electric motor; includes hybrid, plug-in hybrid, electric, and fuel-cell vehicles.
Electronics and Controls	Power electronics, controls (except fuel management and anti-lock brake), infotainment systems, modules, inverters, and advanced battery charging system components.
Exports	Shipments to destinations outside the United States, including shipments to NAFTA countries and to related firm:
Fuel Management Systems	The major engine bay fuel system components including injectors, throttles and controls.
Full Time Equivalent (FTE) Employees	Employees who work for 40 hours in a normal work week. Convert part-time employees into "full time equivalents" by taking their work hours as a fraction of 40 hours.
Global Headquarters	A location that serves as the firm's hub of worldwide operations with all global corporate branches or divisions reporting to it.
Import Value	Values reported should be landed, duty paid values at the U.S. port of entry, including ocean freight and insuranc costs, brokerage charges, and import duties (i.e., all charges except inland freight in the United States).
Interior Systems	Seats, liners, carpeting, consoles, panels, dashes and related interior components.
Light Truck	Motor vehicle manufactured primarily for the transport of goods; any truck or "truck derivative" with a gross vehicle weight rating (GVWR) of 8,500 pounds or less; and a vehicle curb weight (VCW) of 6,000 pounds or less; includes pickup trucks (non-passenger automobiles with passenger compartment and an open cargo area). Cover the following HTV Codes: 5704210000, 5704310000, T0704310000.
Lightweighting	Mass reduction of vehicles through the minimization of materials or substitution of materials with lower density and volume.
Manufacturing	Engaging in the mechanical, physical, or chemical transformation of materials, substances, or components into automotive parts, passenger cars, SUVs, vans and light trucks at a manufacturing facility. Includes vehicle assemb operations.
Manufacturing facility	An establishment that uses an array of equipment, components, systems, and labor to transform designs into automotive parts and/or passenger cars, SUVs, vans and light trucks.
Non-U.S. Facility	A facility that is physically located outside of the United States.
Organization	A company, firm, laboratory, or other entity that owns or controls one or more U.S. establishment(s) capable of designing and/or manufacturing automotive products.
Passenger Car	Motor vehicle manufactured primarily for use in transportation of fewer than ten persons; includes two- and four door sedans, hatchbacks, station wagons, cross-utility vehicles, and, two-seater sports cars. For this survey's purposes, the definition principally covers HTS 8703, excluding SUV's, minivars and varis.
	l .
Product/Process Development	Conceptualization and development of an automotive part, system or whole vehicle prior to the production of th product for customers (i.e., consumers, tier-one suppliers, automakers, etc.).
Product/Process Development Research and Development	
	product for customers (i.e., consumers, tier-one suppliers, automakers, etc.). Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Efforts that an organization conducts towards innovating, introducing and/or improving products and processes. Reported sales including tales to distributors.
Research and Development Sales Steering and Supensions Systems	product for customers (i.e., consumers, tier-one suppliers, automakers, etc.). Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Efforts that an organization conducts towards innovating, introducing and/or improving products and processes. Reported sales including sales to distributors. The steering column, steering gears/racks, control units, related linkages such as tie rods and the shock absorbers springs, struts, control arms, sway bars, houskles and related bushings.
Research and Development Sales	product for customers (i.e., consumers, tier-one suppliers, automakers, etc.). Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Reported sales including sales to distributors. Reported sales including sales to distributors. The steering column, steering gears/racks, control units, related linkages such as tie rods and the shock absorbers springs, struts, control arms, sway bars, knuckles and related bushings. Motor vehicle built using a "body on frame" construction principally designed for the transport of fewer than ten persons.
Research and Development Sales Steering and Supensions Systems	product for customers (i.e., consumers, tier-one suppliers, automakers, etc.). Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Efforts that an organization conducts towards innovating, introducing and/or improving products and processes. Reported sales including sales to distributors. The steering column, steering gears/racks, control units, related linkages such as tie rods and the shock absorbers springs, struts, control arms, sway bars, knuckles and related bushings. Motor vehicle built using a "body on frame" construction principally designed for the transport of fewer than ten
Research and Development Sales Steering and Supensions Systems SUV (Sport Utility Vehicle)	product for customers (i.e., consumers, tier-one suppliers, automakers, etc.). Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Reported sales including sales to distributors. Reported sales including sales to distributors. The steering column, steering gears/racks, control units, related linkages such as tie rods and the shock absorbers springs, struts, control arms, sway bars, knuckles and related bushings. Motor vehicle built using a "body on frame" construction principally designed for the transport of fewer than tenerons. An entity from which your organization obtains inputs, which may be goods or services. A supplier may be anoth from with which you are contractant relationship, or it may be another facility owned by the same parent
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Research and Development Sales Steering and Supensions Systems SUV (Sport Utility Vehicle) Supplier Turbos and Superchargers United States	product for customers (i.e., consumers, tier-one suppliers, automakers, etc.). Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Efforts that an organization conducts towards innovating, introducing and/or improving products and processes. Reported sales including sales to distributors. The steering column, steering gener/ricks, control units, related linkages such as tie rods and the shock absorbers sorings, struss, control arms, sway bars, knuckles and related bushings. Motor rewhice bust using a "body on frame" construction principally designed for the transport of fewer than ten persons. An entity from which your organization obtains inputs, which may be goods or services. A supplier may be another firm with which you have a contractual relationship, or it may be another facility owned by the same parent organization. Forced induction devices driven by exhaust, belts or electric motors. The "United States" or "U.S." includes the 50 states, Puerto Rico, the District of Columbia, Guam, the Trust Territories, and the U.S. Virgin Islands. Shipments made within the United States as a result of an arm's length commercial transaction in the ordinary course of business. Report net values [e.g. goss sales values less all discounts, allowances, rebates, prepaid

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			18	a: Organization	Information			
	Provide the following information for your of	organization						
	Organization Name							
	Street Address							
	City							
Α.	State							
A.	Zip Code							
	Location of Global Headquarters							
	U.S. Point of Contact Name							
	U.S. Point of Contact Email							
	U.S. Point of Contact Phone							
	Is this organization owned, in whole or in pa	art, by any priva	ite or governme	ent entity? Indi	cate Yes/No, th	en identify the entities below	, if applicable.	
	List entities with at least 5% ownership.							
	Entity Name	Global Headq	uarters Street	Global Head	nuarters City	Global Headquarters	Global Headquarters	Ownership %
	Entity Name	Iress	Global Headquarters City		State/Province	Country	Ownership /6	
В.								
J .								
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At the global headquarters level, identify the total number of armored vehicle manufacturing and/or assembly facilities, product development and design facilities, and research to the contraction of the								
and development facilities that your firm currently operates.								
C.	Act	ivity			Num	ber of U.S. Facilities	Number of Non-U.S	. Facilities
	Manufacturing/Assembly of Armored Vehic	les						
	Product Development & Design							
	Research & Development							
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			1b: Facility Informa	ation		
			U.S. Facilities			
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bly, product development and design	n, and/or R&D of armore	d venicies:				
order of total production value, the	top 20 of your organizati	on's armored vehicle	manufacture, assembly, developme	ent & design, and R&D facilities locat	ed in the United States, ident	ifying each facility's name, city, state, scop
rk (dropdown), and any expected cha	ange in operations (e.g. e	xpansion, worker layo	offs, etc.) from 2018-2022. Report th	ne 2017 production volume in units.		
					Francisco de Character	
U.S. Facility Name	City	State	Principal Scope of Work	Secondary Scope of Work	Expected Change 2018-2022	2017 Production Volume of Armoreo Vehicles, in Units
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		1				
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of your U.S. facilities will be closing fi	rom 2018-2022, provide					
	rom 2018-2022, provide		Non-U.S. Faciliti	es		
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	our organization operate			es		
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1c: Changes in U.S. Facility Operations, 2013 - Q2 2018

Identify any U.S. facility closings, relocations, contractions, expansions, corporate acquisitions or consolidations, or other major changes in U.S. operations since January 1, 2013. For each change, provide the location, reasons for the change in operations (e.g., loss of market share to imports, loss of market share to domestic competition, declining demand, low profitability, firm restructuring), and units of vehicles, as well as number of full-time-equivalent (FTE) employees impacted. Denote reductions with a "-" symbol.

	Location	Type of Change	Date of Change	Units of Vehicles Impacted	FTEs Impacted	Explanation
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
9 10 11 12 13 14 15 16 17 18 19						
19						
20						
	Comments:					

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	2a: Production									
At the global headquarters level, identify the quantity (in units) of armored vehicles produced annually and sold in the United States at both your U.S. and non-U.S. facilities.										
	Units Produced at U.S. Facilities and Sold in the U.S.									
A.		2013	2014	2015	2016	2017	2018 (Jan - Jun)			
	Armored Vehicles (U.S.)									
	Units Produced at Non-U.S. Facilities and Sold in the U.S.									
В.	Type of Motor Vehicle/Part	2013	2014	2015	2016	2017	2018 (Jan - Jun)			
	Armored Vehicles (non-U.S.)									

<u> 1 E</u>	evious Page Next Page							
	2b: Production (Continued)							
or	U.S. operations, provide the production, sales, and a	average unit value (AUV)	data for each year belo	w.				
			Armored Vel	nicles				
	Item	2013	2014	2015	2016	2017	2018 (Jan - Jun)	
	Average Production Capacity (Units)							
	Production (Units)							
Α.	U.S. Sales/Shipments (Units)							
	U.S. Sales/Shipments (\$)							
	Export Sales/Shipments (Units)							
	Export Sales/Shipments (\$)							
	AUV U.S. Auto Parts Content*							
	JV U.S. Auto Parts Content: Provide the average unit	•	•		rchase cost of U.Sorigin	nating auto parts used fo	or U.S. armored vehicle	

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<u>Frevious Fage</u>			2c: Constraints to Operat	ions	<u>Next Page</u>
			licate whether your organization	s production of the item or acquisition/pu	orchase of the item has ever been constrained since aint. See definitions page for details on automotive
Auto or Part Type	Constraint to Organization's U.S. Production		Explanation	Constraint to Organization's External Acquisition	Explanation
Armored Vehicles					
Engines - 4 Cylinder					
Engines - 6 Cylinder					
Engines - 8 or More Cylinder					
Transmissions - 7 or Fewer Gears					
Transmissions - 8 or More Gears					
Bodies and Frames					
Drive Components					
Steering & Suspension Systems					
Advanced Batteries					
Fuel Management Systems					
Electronics and Controls					
Electrical Systems					
Braking Systems					
Interior Systems					
Other					
For the manufacturing equipment that y detailing reasons for using equipment so			ies, estimate the percentage (in	units) that is supplied by manufacturers ba	ased in the United States. Provide explanations for each
Equipment	t	U.S. %		Explanation for Using Non-U	S Suppliers
Machine Tools - Engines					
Machine Tools – Transmissions/Transax	les				
Body Panels/Structural Component - Sta Presses/Tooling	amping & Forming				
Machine Tools - Large Gears					
Production Operations - Design & Operations Software					
Production Line Control Systems					
Computer-Controlled Assembly Line Vel	hicle Transport Systems				
Robotic Welders					
Robotic Paint Systems					
Wheel Alignment Systems					

Other Other

Previo	Previous Page Next Page									
	3: Financial Statement - U.S. Operations									
Repor	Report the requested information, in thousands of U.S. dollars, for your organization's U.S. Operations									
	Income Statement (Select Items)	2013	2014	2015	2016	2017	2018 Jan - Jun			
Α	Total Sales Revenue Earned on all U.S. Sales									
1	Revenue - Armored Vehicles									
В	Total COGS for All U.S. Sales									
1	COGS - Armored Vehicles									
С	Gross Profit (Loss) for all U.S. operations (including U.S. sales and exports)									
D	Selling, General, and Administrative (SG&A) Expenses (inc. U.S. sales and exports)									
E	Total Operating Income (Loss) (including U.S. sales and exports)									
F	Other Income & Expenses (inc. Interest Expenses) (inc. U.S. sales and exports)									
G	Net Income (Loss) Before Taxes (including U.S. sales and exports)									
	Balance Sheet (Select Items)	2013	2014	2015	2016	2017	2018 Jan - Jun			
Α	Cash and Cash Equivalents									
В	Inventory									
С	Current Assets									
D	Total Assets									
Е	Current Liabilities									
F	Total Liabilities					<u> </u>				
G	Retained Earnings									
Н	Total Owner's Equity									
	BUSINESS CONFIDENTIAL - Per Section	705(d) of the De	fense Productio	n Act						

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4a: Exports

Identify the top 10 export destinations (by 2017 export volume) for your organization's U.S.-produced armored vehicles, and list the total units exported each year.

				Armored Vehicles (U	Jnits Exported)			
		Export Destination Country	2013	2014	2015	2016	2017	2018 (Jan - Jun)
	1							
	2							
	3							
Α	4							
	5							
	6							
	7							
	8							
	9	·						
	10	·						
			BUSINESS CONFIDEN	TIAL - Per Section 70	05(d) of the Defense	Production Act	_	

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				4b: Impo	orts			
If yo	our c	company imports any armored vehicles	s, identify the top 10	countries of import	(by 2017 import volu	ıme) for each.		
				Armored Vehicles (Units Imports)			
		Country of Import	2013	2014	2015	2016	2017	2018 (Jan - Jun)
	1							
	2							
	3							
A.	4							
A.	5							
	6							
	7							

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5a: Supply Chain

For each type of auto part input, identify the total number of Original Equipment Suppliers (OESs) from which your organization sourced parts in 2017, and list the top five OESs by supplier name, country of headquarters, country of part manufacture, whether the OES is affiliated with your organization (5% or more shared ownership), the number of units acquired in 2017, and the value of parts acquired in 2017. Then, for each supplier rate (from 1 to 4, with 1 being Most Important and 4 being Least Important) how important price, tariffs, product availability, and performance/quality are in deciding to use this supplier.

	Engines: 4	Cylinder		Total OESs:				Reaso	n for Preferring	Supplier (Rank Ea	ch 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
A 1											
3											
4											
5											
	Engines: 6	Cylinder		Total OESs:				Reaso	n for Preferring	Supplier (Rank Ead	ch 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
B 1											
3											
4											
5											
	Engines: 8 or N	1ore Cylinder		Total OESs:				Reaso	n for Preferring	Supplier (Rank Ead	ch 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
C 2											
3											
4											
5	Transmissions: 7	or Fewer Gears		Total OESs:				Reaso	n for Preferring	Supplier (Rank Ead	ch 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
D 1							Acquired			Availability	
2											
3											
5											
	Transmissions: 8	or More Gears		Total OESs:		l .		Reaso	n for Preferring	Supplier (Rank Ead	ch 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
E 1											
3											
4											
5											
		BU	SINESS CONFIDEN	TIAL - Per Section	705(d) of the	Defense Production	on Act				

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5b: Supply Chain

For each type of auto part input, identify the total number of Original Equipment Suppliers (OESs) from which your organization sourced parts in 2017, and list the top five OESs by supplier name, country of headquarters, country of part manufacture, whether the OES is affiliated with your organization (5% or more shared ownership), the number of units acquired in 2017, and the value of parts acquired in 2017. Then, for each supplier rate (from 1 to 4, with 1 being Most Important and 4 being Least Important) how important price, tariffs, product availability, and performance/quality are in deciding to use this supplier.

		Bodies and	Frames		Total OESs:				Reason	for Preferring S	Supplier (Rank E	ach 1-4)
		Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
Α	1											
	3											
	4											
	5											
		Drive Comp	ponents		Total OESs:				Reason	for Preferring S	Supplier (Rank E	ach 1-4)
		Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
В	1											
	3											
	4											
	5											
		Steering & Susper	nsion Systems		Total OESs:				Reason	for Preferring S	Supplier (Rank E	ach 1-4)
		Supplier Name Country of Headquarters		Country of Manufacture		Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
С								·				
	2											
	3											
	5											
		Advanced B	atteries		Total OESs:				Reason	for Preferring S	Supplier (Rank E	ach 1-4)
		Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
D	1											
	3											
	4											
	5											
		Fuel Manageme	ent Systems		Total OESs:				Reason	for Preferring S	Supplier (Rank E	ach 1-4)
		Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
Ε	2											
	3											
	4											
	5											
			BUSINE	SS CONFIDENTIA	L - Per Section 70	5(d) of the Def	ense Production	Act				

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5c: Supply Chain

For each type of auto part input, identify the total number of Original Equipment Suppliers (OESs) from which your organization sourced parts in 2017, and list the top five OESs by supplier name, country of headquarters, country of part manufacture, whether the OES is affiliated with your organization (5% or more shared ownership), the number of units acquired in 2017, and the value of parts acquired in 2017. Then, for each supplier rate (from 1 to 4, with 1 being Most Important and 4 being Least Important) how important price, tariffs, product availability, and performance/quality are in deciding to use this supplier.

	Electi	onics and Controls		Total OESs:				Reason for Preferring Supplier (Rank Each 1-4)			
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
,, <u> </u>	1										
_	2 3										
	4										
	5 Ele	ectrical Systems		Total OESs:				Reason 1	for Preferring S	Supplier (Rank	Each 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
	1										
_	2										
_	3 4										
<u> </u>	5										
	В	raking Systems		Total OESs:				Reason 1	for Preferring :	Supplier (Rank	Each 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
_	1						·				
_	2 3										
_	4										
_	5										
	Ir	terior Systems		Total OESs:				Reason f	for Preferring :	Supplier (Rank	Each 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
_	1										
_	2 3										
-	4										
	5										
		Other		Total OESs:				Reason f	for Preferring :	Supplier (Rank	Each 1-4)
	Supplier Name	Country of Headquarters	Country of N	Manufacture	Affiliated?	Units Acquired	Value of Parts Acquired	Price	Tariffs	Product Availability	Quality
	1 2										
_	3										
-	4										
	5				I						

Previous Page Next Page 6: Domestic and Foreign Sourcing

For each auto part type sourced and used for armored vehicle assembly in the U.S. by your organization, estimate the average percent (based on units sourced) of the parts that are manufactured in the U.S., Canada, and Mexico for each of the years 1985, 1995, 2005, and 2015. Then, provide reasons for your organization's decisions to source auto parts from foreign countries (e.g., domestic source unavailable, foreign source offers lower price, higher quality,

etc.)													
Part Type		Estimated Percent of Auto Parts Manufactured in the U.S.			Estimated Percent of Auto Parts Manufactured in Canada			Estimated Percent of Auto Parts Manufactured in Mexico				Explanation and Reasons for Sourcing from Outside the U.S., Canada, or Mexico	
	1985	1995	2005	2015	1985	1995	2005	2015	1985	1995	2005	2015	
Engines - 4 Cylinder													
Engines - 6 Cylinder													
Engines - 8 or More Cylinder													
Transmissions - 7 or Fewer Gears													
Transmissions - 8 or More Gears													
Bodies and Frames													
Drive Components													
Steering & Suspension Systems													
Advanced Batteries													
Fuel Management Systems													
Electronics and Controls													
Electrical Systems													
Braking Systems													
Interior Systems													
Other													
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act												

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				7: Joint V		eign Trade Zones						
					Joint Vent	tures						
			al number of joint ventures and		related to armor	red vehicle assembly, develo	pment &					
	design, and R&D, incl	uding public/pri	vate partnerships, in which you	ur organization participated.								
			Identify your organizati	on's 10 most recent joint ver	nture relationship	os, including any other type o	of public/priva	te R&D partn	erships.			
	Partner Organiz	ration and	% of Shares Held by Partner									
	Partnership Ent		Organization	Country of JV/Partnership	Year Initiated	Primary Work Scope	Primary P	urpose of Rel	ationship		Explain	
	1	,	- 8									
	2											
	3											
	4											
	5											
Α	6											
_	7											
	8 9		+									
	10											
	11											
	12											
	13	•			·						_	
	14											
	15											
	16											
	17		+									
	19											
	20											
					C Fausian Tuede	. Zanas (FTZs)						
				U	.S. Foreign Trade	Zones (F1ZS)						
	In how many IIS FT7	s does vour orga	anization produce or admit veh	nicles?								
	III How many 0.3.1 12	s does your orgo	sinzation produce or admit ven	ncies:								
			and nature of your organization	on's vehicle U.S. FTZ operation	ons, then identify	the number of units produc	ed in U.S. FTZs	s, as well as th	he number ul	timately ente	red from U.S.	FTZs into
В	the U.S. stream of cor	mmerce each ye	ar.			1				1		
Ь							2013	2014	2015	2016	2017	2018
	FTZ Operation											
	Location and					Units Produced in FTZs						
	Description:											
						Units Entered into U.S.						
						Commerce						
				BUSINESS CONFIDENTIAL	 Per Section 705 	i(d) of the Defense Producti	ion Act					

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	8: U.S. Em	ployment				
From 2013 - Q2 2018, record your organization's annual Total Full Time E	quivalent (FTE) Employee	es in the United Sta	tes involved in armore	d vehicle manufa	cture, assembly, pro	oduct design and
development, and R&D activities. Then record the same data for each oc	cupational category.					
	2010	2014	2015	2016	2017	2018
	2013	2014	2015	2016	2017	Jan-Jun
Total FTE Employees in the U.S.						
Average Weekly Hours Worked by FTE Employees						
Administrative, Management, and Legal Staff						
Engineers, Scientists, and R&D Staff						
Information Technology/Cybersecurity						
Marketing and Sales						
Production Line Workers						
Testing Operators, Quality Control, and Support Technicians						
Does your organization have difficulty hiring and/or retaining its armored	d vehicle-related employe	es?				
Estimate the percentage of your employees involved in armored vehicle automotive industry.	production that have bee	n directly recruited	d from or have a backg	round in the		
For each occupation category, specify the kind of difficulty your organizareason for unfilled vacancies. Explain your response.	tion faces, number of cur	rent unfilled vacand	cies, average length of	time positions re	main unfilled (in we	eks), and primary
	Difficulty	Number of Vacancies	Average Weeks Vacant		Explanation	
Administrative, Management, and Legal Staff						
Engineers, Scientists, and R&D Staff						
Information Technology/Cybersecurity						
Marketing and Sales						
Production Line Workers						
Testing Operators, Quality Control, and Support Technicians						
Comments						
BUSINESS COI	NFIDENTIAL - Per Section	705(d) of the Defe	nse Production Act			
-						

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		9: Competi	tion and Demand Trends	
Α	has changed from 2013 to Q2 2018. Market Within the United States		within the United States and outside of the United State describe the principal factors that have affected these Explanation and Factors	
	Outside the United States			
			ring operations, sales, employment, planned expansions plass to Q2 2018. Please be as specific as possible.	, investments, etc.
В.	growth, investment, ability to raise ca	apital, existing develop	any negative effects on its return on investment or its oment and production efforts, or the scale of capital the United States? Indicate Yes/No to the right and	
	Does your organization anticipate any into the United States? Indicate Yes/		s business due to future imports of armored vehicles plain below.	
	Describe the top 5 largest challenges	to the competitive pos	sition of your organization in the global armored vehicle	s market.
	1			
	2			
	3			
	4			
	5			
	Describe the top 5 largest challenges	to the competitive pos	sition of your organization in the U.S. armored vehicles	market.
	1			
	2			
	3			
	4			
С	5	1 1:1 :		
	·	a venicles innovation	for your organization in the global market.	
	1			
	3			
	4			
	5			
		ed vehicles innovation	for your organization in the U.S. market.	
	1		, 0	
	2			
	3			
	4			
	5			
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10a: Research & Development

From 2013 - Q2 2018, report your organization's Global and U.S. R&D dollar expenditures and report the listed component expenditures on a percentage basis. Also report your organization's global and U.S. R&D funding sources on a dollar basis and component expenditures on a percentage basis.

		Record \$ in The	ousands, e.g.	\$12,000.00 = s	urvey input of	\$12	
		2013	2014	2015	2016	2017	2018 Jan - Jun
	1 Total Global R&D Expenditures			2% D14 2015 2016 D14 2015 2016 D14 2015 2016			
Α	2 Total Global Armored Vehicle R&D Expenditures						
A	a Global Autonomy R&D (as a % of A2)						
	b Global Connectivity R&D (as a % of A2)						
	c Global Electrification R&D (as a % of A2)						
	d Global Lightweighting R&D (as a % of A2)				2%		
	e Other (as a % of A2) (specify here)						
		2013	2014	2015	2016	2017	2018 Jan - Jun
	1 Total U.S. R&D Expenditures						
	2 Total U.S. Armored Vehicle R&D Expenditures						
В	a U.S. Autonomy R&D (as a % of B2)						
	b U.S. Connectivity R&D (as a % of B2)						
	c U.S. Electrification R&D (as a % of B2)						
	d U.S. Lightweighting R&D (as a % of B2)						
	e Other (as a % of B2) (specify here)						
		2013	2014	2015	2016	2017	2018 Jan - Jun
	1 Total Global R&D Funding Sources						
	a Internal/Parent Company (as a % of C2)						
	b U.S. Federal Government (as a % of C2)						
С	c State and Local Government (as a % of C2)						
	d U.S. Private Equity (includes industry and university) (as a % of C2)						
	e Foreign Government (as a % of C2)						
	f Foreign Non-Government (as a % of C2)						
	g Other (as a % of C2) (specify here)						
	2 Total of a-g (must equal 100%)	0%	0%	0%	0%	0%	0%
		2013	2014	2015	2016	2017	2018 Jan - Jun
	1 Total U.S. R&D Funding Sources						
	a Internal/Parent Company (as a % of D2)						
	b U.S. Federal Government (as a % of D2)				İ		
D	c U.S. State and Local Government (as a % of D2)						
	d U.S. Private Equity (includes industry and university) (as a % of D2)						
	e Foreign Government (as a % of D2)						
	f Foreign Non-Government (as a % of D2)						
	g Other (as a % of D2) (specify here)						
	2 Total of a-g (must equal 100%)	0%	0%	0%	0%	0%	0%
	BUSINESS CONFIDENTIAL - Per Section	705(d) of the Defer	se Productio	n Act			

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			10b	: Research & Development (Co	ntinued)								
		For each technology listed below location of the R&D, list of all co				expenditures, provide the primary							
				Autonomy									
	1	Partner Name	Global Headquarters	Primary Location of R&D	List of Countries R&D Carried Out In	Explanation of R&D							
Α	2												
	3												
	4												
	5												
	Connectivity List of Countries R&D												
		Partner Name	Global Headquarters	Primary Location of R&D	Carried Out In	Explanation of R&D							
_	1												
В	2												
	3												
	4 5												
	J			Electrification									
		Partner Name	Global Headquarters	Primary Location of R&D	List of Countries R&D Carried Out In	Explanation of R&D							
С	1												
	3												
	4												
	5												
				Lightweighting									
	1	Partner Name	Global Headquarters	Primary Location of R&D	List of Countries R&D Carried Out In	Explanation of R&D							
D	2												
	3												
	4												
	5												
Ε		n 2013 to Q2 2018, describe in dent those constraints.	etail constrains on global R&I	J activities (for example, inadeq	uate revenue), and explain addit	tional R&D activities that would occur							
	Fror	n 2013 to Q2 2018, describe in d	etail constraints on U.S. R&D	activities (for example, inadequ	ate revenue), and explain addition	onal R&D activities that would occur							
F	abse	ent those constraints.											
			BUSINESS CONFIDEN	ITIAL - Per Section 705(d) of the	Defense Production Act								

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11: Ec	onomic Downturn Information			
Provide the following data estimates for your organization should pertain to your manufacturing, assembly, and sathes ame basis as the data provided in Section 3 of this	les of armored vehicles. The profi	it/loss data you pr	ovide in this table	
Gross Profit/Loss (\$1,000) Operating Income/Loss (\$1,000) Net Income/loss before income taxes (\$1,000) Total U.S. sales quantities of armored vehicles (units) Total COGS for U.S. sales of armored vehicles (\$1,000) R&D spending (\$1,000) Capital Expenditure spending (\$1,000) Amount of assistance received from related companies abroad (specify company name and country) (\$1,000) Amount of assistance received from government entitie abroad (specify entity name and country) (\$1,000)		2008	2009	2010
During the global economic downturn in 2007 – 2010, d percentage of decline in global R&D expenditures comp		pending, if any, by	R&D activity type	and the
During the global economic downturn in 2007 – 2010, d percentage of decline in U.S. R&D expenditures compar	·	nding, if any, by R&	&D activity type ar	nd the
During the global economic downturn in 2007 – 2010, depercentage of decline in global capital expenditures con		spending, if any, b	y capital activity t	type and the
During the global economic downturn in 2007 – 2010, depercentage of decline in U.S. capital expenditures comp		pending, if any, by	capital activity typ	pe and the
BUSINESS CONFIDENTIAL	- Per Section 705(d) of the Defer	se Production Ac	t	

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Section 12a: Support of U.S. Government (USG) - Agencies

Indicate all U.S. Government departments and agencies your organization has supported, directly or indirectly, from 2013 - Q2 2018 (including all affiliated laboratories). Then indicate the primary type of product associated with this support.

	Agency Name			Primary Type of Support	
	U.S. Air Force (USAF)				
	U.S. Army				
	U.S. Navy				
	U.S. Marine Corps (USMC)				
	U.S. Department of Energy (DOE)				
Α	U.S. Department of Homeland Security (DHS)				
	U.S. Department of State				
	U.S. DOD Defense Advanced Research Projects Agency (DARPA)				
	U.S. DOD Missile Defense Agency (MDA)				
	U.S. Intelligence Community (e.g. CIA, NGA, NRO, NSA, DNI, etc.)				
	National Aeronautics and Space Adm	inistration (NASA)			
	Other Agency	(specify here)			
	Other Agency	(specify here)			
Other Agency (specify here)					
	Comments:				
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act				

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		12b: Global and	Defense Activities
		-Yes/No-	Explain
Α	Has your organization ever designed, developed, or manufactured, individually or in collaboration with other private or government partners, any product specifically for military purposes?		
В	Does your organization currently design, develop, or manufacture, individually or in collaboration with other private or government partners, any product specifically for military purposes? If your organization has previously done so but no longer does, provide an explanation for the reasons for the change.		
С	Does your organization sell any products directly to a U.S. defense agency?		
D	Does your organization sell any products directly to a foreign defense agency?		
Е	Indicate whether your organization performs any R&D that is funded by or in cooperation with a U.S. government agency, then describe all such activities.		
F	Indicate whether your organization performs any R&D that is funded by or in cooperation with a foreign government agency, then describe all such activities.		
	BUSINESS CONFIDE	NTIAL - Per Sectio	n 705(d) of the Defense Production Act

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12c: Advanced Technology

For the technologies listed below, rank their importance to the development of future armored vehicle products over the next 10 years for each of the vehicle types described

Advanced Technology Continues	Current Level of R&D		Importance	
Advanced Technology Requirements	Investment	Conventional Vehicles	Electric Vehicles	Autonomous Vehicles
1 Advanced Electric Drive - Motor				
2 Advanced Electric Drive - Transmission				
3 Advanced Batteries				
4 Hydrogen Fuel Cells				
5 Battery Management Systems				
6 Power Electronics				
7 Power Generating Shock Absorbers				
8 Improved Regenerative Braking Systems				
9 Collision Avoidance Systems - LIDAR				
10 Collision Avoidance Systems - Radar				
11 Directional Mapping/Global Positioning				
12 Guidance Sysems				
13 Jam-Resistant Dedicated Short-Range Communications (DSRC) technology				
14 Vehicle-to-Vehicle Communications				
15 Automotive Electromagnetic Interference Filters				
16 Advanced Microprocessors Availability				
17 Sensor Fusion Integrated Electronics				
18 High-Fidelity Antennas				
19 Integrated Braking and Steering Control Systems				
20 Lightweighting				
21 Sensor Systems - Light Detection and Ranging (LIDAR) detection and ranging,				
22 Sensor Systems - Other Optical				
23 Sensor Systems - Other Radar				
24 Sensor Systems - Discriminating Directional Sensors				
25 Sensor Systems - Object Recognition/Vehicle Recognition				
26 Sensor Systems - Driver Behavior/Human Factors				
27 Software & Algorithm Tools				
28 Systems Simulation Tools				
29 Power Electronics Simulation Software				
30 Software Validation Tools				
31 Other				
32 Other				
Comments				

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	13: Certification
The undersigned certifies that the information h	erein supplied in response to this questionnaire is complete and correct to the best of his/her
knowledge. It is a criminal offense to willfully m	ake a false statement or representation to any department or agency of the United States Government
as to any matter within its jurisdiction (18 U.S.C.	1001 (1984 & SUPP. 1197)).
Once your organization has completed this surve	ey, save a copy and submit it via email to autos232@doc.gov . Be sure to retain your survey for your
records and to facilitate any necessary edits or c	larifications.
BIS Survey Website	https://www.bis.doc.gov/autos232
Organization Name	
Organization's Internet Address	
Name of Authorizing Official	
Title of Authorizing Official	
E-mail Address	
Phone Number and Extension	
Date Certified	
In the box below, provide any additional comme	nts or any other information you wish to include regarding this survey assessment.
How many hours did it take to complete this sur	vey?
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