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NATIONAL SECURITY ASSESSMENT: U.S. CARTRIDGE AND PROPELLANT ACTUATED DEVICE INDUSTRY 4th Report



SCOPE OF ASSESSMENT

The U.S. Department of Commerce, Bureau of Industry and Security (BIS), Office of Technology Evaluation (OTE), in coordination with the CAD/PAD Joint Program Office, Naval Surface Warfare Center, Indian Head, is conducting a national security assessment of the U.S. cartridge and propellant actuated device (CAD/PAD) industry and its supply chains. The principal goal of this data collection is to update industry and government officials on the underlying health and competitiveness of this defense critical industry, and to ensure the ability of the industry to support defense missions and programs.

RESPONSE TO THIS SURVEY IS REQUIRED BY LAW

A response to this survey is required by law (50 U.S.C. app. Sec. 2155). 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 Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C App. Sec. 2155). 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.

Not withstanding 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 12 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. 0694-0119), Washington, D.C. 20503.

BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

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Sect	ion I GENERAL INSTRUCTIONS
A.	Your company is required to complete this survey using the Excel-based survey template, which can be downloaded from the U.S. Department of Commerce, Bureau of Industry and Security (BIS) website at www.bis.doc.gov/cadpad_survey . For your convenience, a PDF version of the survey is available on the BIS website to aid internal data collection. DO NOT use the PDF to submit your company's response to BIS.
В.	If information is not available from your records in the form requested, you may furnish estimates. Please indicate in the comment box on the page when you use an estimate.
C.	Surveys that are not fully completed will be returned for completion. Use 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 the information. DO NOT COPY AND PASTE RESPONSES WITHIN THIS SURVEY. Survey inputs should be made manually, by typing in responses or by use of a drop-
	down menu. The use of copy and paste can disrupt the data collection process. If your survey response is corrupted as a result of copy and paste responses, a new survey will be sent to you for immediate completion.
D.	Important: This survey may not be submitted in paper form. Please submit the completed survey document in Microsoft Excel (.xls) format at CADPADsurvey@bis.doc.gov
E.	Report calendar year data, unless otherwise specified in a particular question.
	Questions regarding this survey should be directed to: CADPADsurvey@bis.doc.gov or
F.	Anna Bruse, Trade and Industry Analyst, U.S. Department of Commerce, (202) 482-7980 Erika Maynard, Trade and Industry Analyst, U.S. Department of Commerce, (202) 482-5572 Temporary Employee, Trade and Industry Analyst, U.S. Department of Commerce, (202) 482-xxxx
	For questions regarding the overall assessment or the Office of Technology Evaluation (OTE), please contact:
G.	Brad Botwin, Director, Industrial Studies Office of Technology Evaluation, Room 1093 U.S. Department of Commerce 1401 Constitution Avenue, NW Washington, DC 20230 Phone: (202) 482-4060
	Please do not submit completed surveys to this address; all surveys must be submitted electronically.

BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Section II	DEFINITIONS
Cartridge	An energy source utilizing one or more energetic materials such as pyrotechnic, propellant or explosive ingredients.
Cartridge Actuated Device (CAD)	A device releasing energy to perform a controlled system or work function.
Capacity Utilization	The extent to which an enterprise uses its total annual installed manufacturing capacity.
Cost Premium	For the purposes of the survey, the percentage value above or below the base cost of the part/component.
	Direct and indirect military shipments, including domestic and international shipments for military use. These include: 1) weapon systems, support
	equipment, and all other defense related end-use devices, identified by purchase orders bearing a DO or DX rating and/or a contract number from the
Defense Shipments	Department of Defense, Nuclear Regulatory Commission, Central Intelligence Agency, Federal Aviation Administration, National Security Agency or
	National Aeronautics and Space Administration; 2) the orders of your customers which you can identify as producing products for defense purposes; 3)
	devices tested and certified to military specifications.
	Any material or substance used in or used to facilitate the manufacturing process, a concomitant constituent, or a byproduct constituent produced during
Manufacturing Materials (Raw Materials)	the manufacturing process, which is present in or on the finished device/product as a residue or impurity not by design or intent of the manufacturer.
	are managed and process, when is present in a contine managed device, produce as a residue of impart, not by design of interior and managed are.
	A lack of availability of an item or raw material resulting from statutory and process changes, as well as new designs. Obsolescence refers to the process
Obsolescence	or condition by which a piece of equipment becomes no longer useful, or a form and function no longer current or available for production or repair.
	Offsets are defined as industrial or commercial compensation practices required by foreign governments as a condition of purchase of military imports.
Offset Agreements	Common types of offsets include licensed production of the defense item (or parts thereof) in the purchasing country, technology transfer, foreign
	investment, and countertrade.
Propellant Actuated Device (PAD)	A rocket powered device releasing controlled propellant energy to perform a work function. This device provides propulsion for acceleration/deceleration,
	stabilization, divergence or deployment. Includes basic and applied research and product development in the sciences and in engineering, and design and development of prototype products and
	processes. For the purposes of this questionnaire, research and development included activities carried on by persons trained, either formally or by
	experience, in the physical sciences including related engineering, if the purpose of the activity is to do one or more of the following things: 1. Pursue a
Research and Development	planned search for new knowledge, whether or not the search ahs reference to a specific application. 2. Apply existing knowledge to problems involved
	into the creation of a new product or process, including work required to evaluate possible uses. 3. Apply existing knowledge to problems involved in the
	improvement of a product or process. Domestically produced products shipped by your firm during the reporting period. Such shipments should include inter-plant transfers, but should exclude
Shipments	shipments of products produced by other manufacturers for resale under your brand name. Do not adjust for returned shipments. (See definition of
Silipilients	Defense Shipments above.)
	A company or facility that is designated as the only accepted source for the supply of parts, components, materials, or services, even though other sources
Single-Source	with equivalent technical know-how and production capability may exist.
	A company or facility that is the only source for the supply of parts, components, materials, or services. No alternative domestic or foreign suppliers exist
Sole-Source	other than the current supplier.
United States	Includes the fifty States, Puerto Rico, District of Columbia, and the Virgin Islands.
Officed States	and the strip states, see to street or commonly and the virgin interior.
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act
	Desired Control of the Section 703(a) of the Defende Froudend Act

Sect	ion III WHO MUST RESPOND					
Α.	Has your company manufactured or integrated/assembled Cartridge and/or Propellant Actuated Devices for defense end-uses in the United States between 2005-2011?					
В.	Has your company manufactured or integrated/assembled Cartridge and/or Propellant Actuated Devices for commercial enduses in the United States between 2005-2011?					
	EXEMPTION FROM SURVEY					
-	If you selected "No" to both the statements above, your company may be exempt from completing this U.S. Department of Commerce survey. If you think your company is exempt, call the contacts listed in the General Instructions section of this survey.					
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act					

Sect	ion IV	PRODUCT CODES				
	Aircrew Escape Propulsion System	A rocket powered device employed in aircrew escape systems to perform such functions as propulsion, acceleration, deceleration, ejection seat divergence, man-seat separation, parachute deployment, stabilization, etc., including rocket catapults and underseat rocket motors.				
2.	Impulse Cartridges	A cartridge-type item employing propellant or explosive materials to release energy. This category includes fire extinguisher cartridges, ignition elements, squibs, detonators and blasting caps, but excludes cartridges that incoporate pyrotechnic delay material(s) to affect the timing of the output charge initiaion, see product code #4. Also exclude aircraft stores release cartridges and aircraft cartridges and aircraft countermeasure cartridges such as chaff and flare ejection cartridges and sonobouy ejection cartridges (see Product Code #5).				
2.A	Electrically Initiated Cartridges	Devices using electrical energy to intiate the energetic material.				
2.B	Percussion Initiated Charges	Devices using percussion primers to initiate the energetic material.				
3.	Initiators (Impulse)	Devices employing energetic materials such as propellants or explosives to: generate the initial or sustaining pressure within a ballistic gas system or to initiate a signal transmission line such as shielded mild detonating cords, thin layered explosive transmission lines, etc. Exclude cartridge type devices which are employed in igniters or other explosive devices to ignite propellants or explosives, as well as, initiators which affect the timing of the output charge initiation by use of pyrotechnic delay material(s) (see #4, below).				
4.	Delay Cartridges and Delay Initiators	Devices similar to the above #2A, #2B AND #3, that incorporates pyrotechnic delay material(s) to effect timing of the output charge initiation. This category includes electric and percussion primed delay cartridges and delay initiators.				
5.	Aircraft Stores/Flares/Chaff/Sonobuoy Ejection Cartridges	Cartridges and ignition elements, employing energetic materials such as propellants and explosives, used to eject bombs, sonobuoys, missiles, etc., from combat aircraft. This category includes cartridges to launch or eject aircraft flares or chaff for anti-aircraft missile countermeasures, but not the flares themselves.				
6.	Detonating Cords and Charges	This category includes the following devices: shielded mild detonating cord, mild detonating cord, linear shape charge, flexible linear shape charge, mild detonating fuse, and thin layered explosive lines. Also included in this group are transfer assemblies and other assemblies that employ these type of cords or lines, (for example, window severance assemblies). Exclude bulk explosives.				
7.	Cutters	Devices which employ energetic materials and a cutting blade to sever a bolt, wire, cable suspension line, etc.				
8.	Catapults, Thrusters, and Removers	Devices using energetic materials and employing captured or ejected telescoping-type tubes to perform functions such as separation, ejection, thrusting, movement, etc.				
9.	Automatic Inflators	Automatic Inflators				
10.	Gas Generators	Gas Generators				
11.	Automotive Airbag Initiators	Automotive Airbag Initiators				
12.	Laser Initiated Cartridges, Detonators, and Initiators	Laser Initiated Cartridges, Detonators, and Initiators				
13.	Rocket Motor Igniters	Rocket Motor Igniters				
14.	Other	This category includes all other cartridges, cartridge actuated devices, and other pyrotechnic devices of similar design and used in a similar manner.				
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act					

Sectio	n 1.a	COI	MPANY INFORMATION				
C	Company Name						
E	Business Unit Responding to Survey						
S	Street Address						
C	City						
A. S	State						
Z	Zip Code						
F	Phone Number						
F	ax Number						
٧	Website						
F	Point of Contact(s) regarding this survey:						
В.	Name	Title	E-m	ail	Phone Number		
В.							
N	My company is headquartered in:						
N	My company is:						
C.	Parent Company Name	Address	City	State/Province	Country		
	My company is Publicly traded/Privately held:						
N	My parent company is Publicly traded/Pr	rivately held:					
D. I	ndicate what year your company or bus	iness unit was acquired by the paren	nt company, if applicable.				
	Comments:						
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act						

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Sect	on 1.b COMPANY INFORMATION (cont.)						
A.	What percent of your parent company/company's sales are CAD/PAD-related?						
В.	. What percent of your business unit sales operations are CAD/PAD-related?						
	Does your business unit partake in additional lines of business? If "yes", indicate the business lines below.						
_	Business Line						
C.	1.						
	2.						
	3.						
	Comments:						
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act						

Secti	ion 2		FACILITIES					
		tion of each of your CAD/PAD manufacturing		y in operating IN the Unite	ed States.			
	ID#	Facility Name	Street Address	City	State	Zip Code		
	US - 1							
	US - 2							
	US - 3							
A.	US - 4							
	US - 5							
	US - 6							
	US - 7							
	US - 8							
	US - 9							
	US - 10							
		tion of each of your CAD/PAD manufacturing						
	ID#	Facility Name	Street Address	City	State/Province	Country		
	Non-US - 1							
	Non-US - 2							
D	Non-US - 3							
В.	Non-US - 4							
	Non-US - 5							
	Non-US - 6 Non-US - 7							
	Non-US - 7 Non-US - 8							
	Non-US - 8							
	Non-US - 10							
	Comments:							
		BUSINESS C	ONFIDENTIAL - Per Section 705(d) of the D	efense Production Act				

	tion 3		CLOS	ED/SOLD FACILITIES			
	Identify the location of each of your CAD/PAD-related manufacturing, assembly, and/or integration facilities IN the United States that have been closed or sold since January 1, 2007. Provide the reason for the closed or sold since January 1, 2007.						
	or sale.						
	ID#	Facility Name	City	State	Zip Code	Year of Closure/Sale	Reason for Closure/Sale
	Closed/Sold US - 1						
	Closed/Sold US - 2						
	Closed/Sold US - 3						
A.	Closed/Sold US - 4						
	Closed/Sold US - 5						
	Closed/Sold US - 6						
	Closed/Sold US - 7						
	Closed/Sold US - 8						
	Closed/Sold US - 9						
	Closed/Sold US - 10						
	Identify the location of each of	your CAD/PAD-related manuf	facturing, assembly, a	and/or integration facilitie	s OUTSIDE the Uni	ited States that have been close	d an add since leaven 1 2007. Due ide the access for the
	closure or sale.						
	closure or sale.				3 00 13 IDE THE OTH	ited States that have been close	d or sold since January 1, 2007. Provide the reason for the
	ID#	Facility Name	City	State/Province	Country	Year of Closure/Sale	Reason for Closure/Sale
	ID # Closed/Sold Non-US - 1	Facility Name	City				, ·
	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2	Facility Name	City				, ·
	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3	Facility Name	City				, ·
В.	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4	Facility Name	City				, ·
В.	ID# Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5	Facility Name	City				, ·
В.	ID# Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5 Closed/Sold Non-US - 6	Facility Name	City				, ·
В.	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5 Closed/Sold Non-US - 6 Closed/Sold Non-US - 7	Facility Name	City				, ·
В.	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5 Closed/Sold Non-US - 6 Closed/Sold Non-US - 7 Closed/Sold Non-US - 8	Facility Name	City				, ·
В.	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5 Closed/Sold Non-US - 5 Closed/Sold Non-US - 7 Closed/Sold Non-US - 8 Closed/Sold Non-US - 8 Closed/Sold Non-US - 9	Facility Name	City				, ·
В.	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5 Closed/Sold Non-US - 6 Closed/Sold Non-US - 7 Closed/Sold Non-US - 8	Facility Name	City				, ·
В.	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5 Closed/Sold Non-US - 6 Closed/Sold Non-US - 7 Closed/Sold Non-US - 8 Closed/Sold Non-US - 9 Closed/Sold Non-US - 10		City				, ·
В.	ID # Closed/Sold Non-US - 1 Closed/Sold Non-US - 2 Closed/Sold Non-US - 3 Closed/Sold Non-US - 4 Closed/Sold Non-US - 5 Closed/Sold Non-US - 5 Closed/Sold Non-US - 7 Closed/Sold Non-US - 8 Closed/Sold Non-US - 8 Closed/Sold Non-US - 9		City				, ·

ction 4.a	PRODUCT	ION CAPABILITIES				
For each CAD/PAD product below, indicate whether you have If your company has ceased production of a product since 200				e facility or faciliti	es where each product is/wa	s manufactured (based on responses to Sectio
CAD/PAD Product	Manufacture/Integrate/Assemble Product?	Facility of Ma	nufacture/Integration	n/Assembly 3	Year of Cease in	Reason for Cease in Production
Aircrew Escape Propulsion System	Product?	1	2	3	Production	
Impulse Cartridges						
2.A Electrically Initiated Impulse Cartridges						
2.B Percussion Initiated Impulse Charges						
3. Initiators (Impulse)						
Delay Cartridges and Delay Initiators						
Aircraft Stores/Flares/Chaff/Sonobuoy Ejection						
Detonating Cords and Charges, and Linear Charges						
7. Cutters						
8. Catapults, Thrusters, and Removers						
9. Automatic Inflators						
10. Gas Generators						
11. Automotive Airbag Initiators						
12. Laser Initiated Cartridges, Detonators, and Initiators						
13. Rocket Motor Igniters						
14.A Other (specify)						
14.B Other (specify)						
14.C Other (specify)						
Record the degree of compatibility of your Defense CAD/PAD-	related <i>product lines</i> with Non-Defense custom	ers and applications.				
Comments:						
	BUSINESS CONFIDENTIAL	D C+i 70F(d)	fals Defense Dunder	ation Act		

Section 4.b

PRODUCTION CAPABILITIES (cont.)

For the CAD/PAD products that your company does not currently manufacture, indicate whether your company could manufacture these products with your current equipment and facilities. In addition, using your company's 2011 production as a baseline, estimate the lead time required to restart production of each product area. Finally, explain your estimate for lead time. For the purpose of this estimate, make the following assumptions:

- 1) Existing U.S. production facilities are to be operated at maximum practical productive capacity;
- 2) Labor availability reflects normal local market conditions;
- 3) Material availability reflects normal local market conditions;
- 4) Facilities operate at the maximum rate possible given technological constraints; and
- 5) The product area in question is given priority over other products that may use the same manufacturing resources.

CAD/PAD Product	Could Manufacture?	Lead Time	Explain
Aircrew Escape Propulsion System			
2. Impulse Cartridges			
2.A Electrically Initiated Impulse Cartridges			
2.B Percussion Initiated Impulse Charges			
3. Initiators (Impulse)			
4. Delay Cartridges and Delay Initiators			
5. Aircraft Stores/Flares/Chaff/Sonobuoy Ejection Cartridges			
6. Detonating Cords and Charges, and Linear Charges			
7. Cutters			
8. Catapults, Thrusters, and Removers			
9. Automatic Inflators			
10. Gas Generators			
11. Automotive Airbag Initiators			
12. Laser Initiated Cartridges, Detonators, and Initiators			
13. Rocket Motor Igniters			
14.A Other (specify)			
14.B Other (specify)			
14.C Other (specify)			
Comments:			

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Sect	ection 5 INVENTORY AND ORDER BACKLOG							
Α.	Does your company keep inventory of CAD/PAD finished products, components/manufacturing materials, or both? Explain below. A.							
В.	What is the average inventory, in months, for finished CAD/PAD products maintained in inventory? Explain below. B.							
C.	What is the average inventory, in months, for CAD/PAD components and manufacturing materials maintained in inventory? Explain below.							
D.	What is your average order backlog for finished	ed CAD/PAD products, in months? Ехр	lain below.					
E.	Estimate the percent capacity utilization rate (see definitions) for your company's CAD/PAD production, integration, and/or assembly from 2007-2011.							
	Comments:							
	BUSINESS	S CONFIDENTIAL - Per Section 705(d) (of the Defense Production Act					

Section 6 U.S. SUPPLIERS/SUBCONTRACTORS Identify your company's most important U.S. suppliers/subcontractors for CAD/PAD operations. For each supplier name, indicate the product, service, manufacturing material and/or equipment supplied, location of the supplier, and whether the supplier is single or sole source. Note: Include internal/same company suppliers. U.S. Supplier/Subcontractor Name Product/Service/Equipment City State Single or Sole Source? 1. A. 3. 4. 5. 6. 7. 8. 9. 10. NON-U.S. SUPPLIERS/SUBCONTRACTORS Identify your facility/plant's most important Non-U.S. suppliers/subcontractors for CAD/PAD operations. For each supplier name, indicate the product, service, manufacturing material and/or equipment supplied, location of the supplier, and whether the supplier is single or sole source. Note: Include internal/same company suppliers. Non-U.S. Supplier/Subcontractor Name Product/Service/Equipment City Country Single or Sole Source? 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Comments: BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Section 7				SALES								
Report your total U.S. defense and non-defense sales for each of the	CAD/PAD devid	es listed for the v	ears 2007-201	1 Then indicate	whether your	2012-2016 sales	will "increase"	"decrease" or '	remain the sar	ne" from the dro	n-down menu	nrovided
Sales to NASA and other non-defense USG agencies should be include			Cai 3 2007 201	ii. men, maleate	wilctrict your	2012 2010 30103	will illerease	, accrease , or	remain the sai	ne nom the are	p down mend	provided.
sales to the stand other non detense ose agencies should be include	a acrense sa											
Note: Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12												
	1 2	2007	2	800	2	009	2	010	2	011	2012	-2016*
Products	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense
Aircrew Escape Propulsion System											i	
2.A Electrically Initiated Impulse Cartridges												
2.B Percussion Initiated Impulse Charges											1	
3. Initiators (Impulse)											<u> </u>	
Delay Cartridges and Delay Initiators												
5. Aircraft Stores/Flares/Chaff/Sonobuoy Ejection Cartridges											I	
Detonating Cords and Charges												
7. Cutters											1	
8. Catapults, Thrusters, and Removers											<u> </u>	
9. Automatic Inflators											<u> </u>	
10. Gas Generators											<u> </u>	
11. Automotive Airbag Initiators											<u> </u>	
12. Laser Initiated Cartridges, Detonators, and Initiators												
13. Rocket Motor Igniters												
14.A Other (specify)												
14.B Other (specify)												
14.C Other (specify)												
Total Defense and Non-Defense Sales											<u> </u>	
* If data is not available, provide estimates.												
Comments:												
		BUSINESS C	ONFIDENTIAL	- Per Section 705	(d) of the Def	ense Production	Act					

	ction 8.a				XPORTS								
pro	port your total Non-U.S. defense and non-defense exports for each ovided. Include exports to foreign defense or military applications (ote: Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12			the years 200	7-2011. Then, in	dicate whethe	r your 2012-2016	exports will "	increase", "decre	ease", or "rema	in the same", fro	om the drop-d	own menu
	Products	2	007	2	008	2	009	2	010	20	11*	2012	-2016*
	Products	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense	Defense	Non-Defense
	Aircrew Escape Propulsion System												
	2. Impulse Cartridges												
	2.A Electrically Initiated Impulse Cartridges												
	2.B Percussion Initiated Impulse Charges												
-	3. Initiators (Impulse)												
-	4. Delay Cartridges and Delay Initiators												
-	5. Aircraft Stores/Flares/Chaff/Sonobuoy Ejection Cartridges												
-	6. Detonating Cords and Charges 7. Cutters												
A.	Cutters Catapults, Thrusters, and Removers												
ŀ	9. Automatic Inflators												1
ŀ	10. Gas Generators												
ŀ	11. Automotive Airbag Initiators												
ŀ	12. Laser Initiated Cartridges, Detonators, and Initiators												
ŀ	13. Rocket Motor Igniters												
ľ	14.A Other (specify)												
	14.B Other (specify)												
	14.C Other (specify)												
	Total Defense and Non-Defense Exports												
* If	f data is not available, provide estimates.												
	Comments:												
			BUSINESS CO	NFIDENTIAL -	Per Section 705(d) of the Defen	se Production Ac	t					

1							
Section	8.b		EXPORTS				
Using t	ne drop-downs provided, i	identify the top FIVE end-user countries for	vour company's CAD/PAD	exports by total dollar sal	es for each product below.	Inputs should reflect 2011 v	rear data. (Note: Include
FMS Sa		,	, , . , . ,	,	-	, , , , , , , , , , , , , , , , , , , ,	
	,	Products	Country 1	Country 2	Country 3	Country 4	Country 5
	L. Aircrew Escape Propul	sion System	,	•		,	•
	2. Impulse Cartridges						
2	A Electrically Initiated Im	npulse Cartridges					
2	.B Percussion Initiated Im	npulse Charges					
3	3. Initiators (Impulse)						
4	Delay Cartridges and D	Delay Initiators					
į		Chaff/Sonobuoy Ejection Cartridges					
(5. Detonating Cords and	Charges					
Α.	7. Cutters						
8	3. Catapults, Thrusters, a	nd Removers					
9	Automatic Inflators						
1	0. Gas Generators						
1	1. Automotive Airbag Init	ciators					
1	Laser Initiated Cartridg	ges, Detonators, and Initiators					
1	3. Rocket Motor Igniters						
	I.A Other (specify)						
	I.B Other (specify)						
14	I.C Other (specify)						
	Comments:						
		BUSINESS	CONFIDENTIAL - Per Sect	ion 705(d) of the Defense	Production Act		

A.	on 9.a COMPETITIVE PROSPECTS How do you foresee the competitive prospects for your firm's U.Sbased CAD/PAD production operations over the next five years? Explain below.							
В.	How is your company impacted by recent consolidations among competitors? Explain below.							
C.	Describe the actions your company has taken in the LAST 5 years to improve its competitiveness.							
D.	Describe the actions your company plans to take to improve its competitiveness over the NEXT 5 years.							
	Comments:							
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act							

		COMPETITIVE PROCE							
secti	on 9.b List your primary domestic competit	COMPETITIVE PROSP	ECIS (cont.)						
	Domestic Com		City	State					
	1.	petito: Hume	0.1,	State					
A.	2.								
	3.								
	4.								
	5.	antitana amal thain la antiam.							
	List your primary international comp		City	Country					
	1.	injetitoi ivaille	City	Country					
В.	2.								
	3.								
	4.								
	5.								
	How would you assess your competitiveness against international competitors over the LAST 5 YEARS. Explain								
G.	below.								
		ed competitiveness against interi	national competitors over the NEXT 5						
Н.	YEARS. Explain below.								
	Comments:								
	BUSIN	IESS CONFIDENTIAL - Per Section	705(d) of the Defense Production Act						

	ion 10.a		SUPPLY CHAIN ISSUES						
		•	for your own use) positively and/or negative	ely affected your domestic ma	anufacturing and/or				
	integration/assembly operat	ions?							
A.	Effect		Explain						
	Positive Factors								
	Negative Factors								
	essential supplies in the last	Have you experienced any shortages, drastic cost increases, or supply interruptions of materials, parts and components or other essential supplies in the last five years that adversely affected, or that continue to adversely effect your U.S. CAD/PAD manufacturing/integration/assembly operations? If "Yes", indicate the items and explain the situation and how it was resolved.							
		Item	Impacted?		Explain				
	a. Explosive Components								
В.	b. Explosive Ingredients								
	c. Explosive Materials								
	d. Legacy Propellants								
	e. Raw Materials								
	f. Parts/Components								
	g. Subcomponents								
	h. Testing Materials								
	i. Other (specify)								
	j. Other (specify) k. Other (specify)								
		ontinue to adversely affect your U	g, integration and/or assembly operations in .S. manufacturing/integration/assembly ope						
		Factor	Impacted?		Explain				
	a. Commerce Control List (C		·						
	Department of Transport								
	b. (e.g. "Competent Authori								
	c. Environmental Protection	• •							
C.	d. Foreign Military Sales	_ c ,							
	e. International Traffic in Ar	ms Regulations (ITAR)							
	f. N-ray Testing								
	g. Obsolescence								
	h. Testing Facilities								
	i. Vibration Testing								
	j. Other (specify)								
	k. Other (specify)								
	I. Other (specify)								
	Comments:								
		BUSINESS CONFI	DENTIAL - Per Section 705(d) of the Defense	Production Act					

Sect	ion 10	.b	SUPPLY C	CHAIN ISSUES (cont.)								
	name	ou required to utilize parts and components the and location. Then, estimate the percentage of For foreign supplier locations, only indicate co										
A.		Obsolete Part/Component	Supplier Company	State	Country	Cost Premium (%)	Difficulty Obtaining Part?	Explain				
	1.											
	2. 3.											
	3. 4.											
	5.											
	Ident Finall Note	cate the material belo	w, the supplier's name and location.									
В.		Manufacturing Material	Supplier Company	State	Country	Alternate Source Available?		Explain				
	1.											
	2.											
	3.											
	4. 5.											
	Э.	Comments:				L	L					
			BUSIN	IESS CONFIDENTIAL - Pei	r Section 705(d) of the Defe	ense Production Act						

Cook	on 1	1 -		WORK	FORCE			
	on 1		(575)	WORK		CAR /RAR		
		e total number of full tin		•			by occupational type fo	or the 2007-2011
perio	d. D	o not double count pers	onnel who may perform	cross-operational r	oles. Estimates are acc	ceptable.		
Note	: Line	es a. through o. should ed		<u>quivalent Employee</u> 2007		2000	2010	2011*
	_	Professional Occ		2007	2008	2009	2010	2011*
	a.	Design Engineering	011					
	b. c.	Finance/Accounting						
	d.	IT/Network Engineers						
	e.	Management						
	f.	Manufacturing/Product	ion Line Workers					
		Marketing & Sales	HOIT EITHE WORKETS					
		Program Management						
A.	i.	Quality Control						
	i.	Research and Developm	nent Staff					
	k.	Scientists						
	I.	Testing						
	m.	Other (specify)						
	n.	Other (specify)						
	0.	Other (specify)						
	_	Total Full Time Equivale	unt (ETE) Employees					
	p.	Total Full Tille Equivale	int (i i'L) Linployees					
	Wha	at is the number and curr	ent experience profile o	of your design and e	ngineering technical st	aff? Identify only desig	n engineering staff, ex	cluding engineers in
	supp	oort of manufacturing, te	sting, quality, and other	operations.				
	_	Tachnical Occupations	Nl El I	< 5 Years of	6 to 10 Years of	11 to 20 Years of	21 to 30 Years of	> 30 Years of
В.	'	echnical Occupations	Number Employed	Experience	Experience	Experience	Experience	Experience
υ.	a.	Mechanical						
	b.	Electrical						
	c.	Chemical						
	d.	Laser						
		Comments:						
						_		
			BUSINESS CO)NFIDENTIAL - Per S	ection 705(d) of the De	etense Production Act		

Secti	Prov	1.b vide the number of your company's CAD/PAD related resear e: Non-U.S. Citizens include Green Card and H1-B Visa Hold	ch and development	DRCE (cont.) staff for 2011, that fall	within the functions a	nd age ranges listed in	the table below.
Α.			< 30 Years Old	30 to 40 Years Old	40 to 50 Years Old	50 to 60 Years Old	> 60 Years Old
A.	a.	U.S. Citizens (Development Staff, i.e. Engineers)					
	b.	Non-U.S. Citizens (Development Staff, i.e. Engineers)					
		U.S. Citizens (Research Staff, i.e. Scientists)					
	d.	Non-U.S. Citizens (Research Staff, i.e. Scientists)					
		vide the number of your company's CAD/PAD related resear nanently employed by your firm.	ch and development	staff who hold advance	ed degrees as of 2011	. Do not include outsi	de consultants not
				B.A./B.S.	Masters	Ph.D. o	r Higher
В.	a.	U.S. Citizens (Development Staff, i.e. Engineers)					
	b.	Non-U.S. Citizens (Development Staff, i.e. Engineers)					
	c.	U.S. Citizens (Research Staff, i.e. Scientists)					
	d.	Non-U.S. Citizens (Research Staff, i.e. Scientists)					
Comments:							
		BUSINESS CONFID	ENTIAL - Per Section	705(d) of the Defense	Production Act		

Secti	on 11.c	WOF	RKFORCE (cont.)					
A.	For your company, identify what CAD/PAD related professional occupations are the most difficult to hire and retain.	1. 2. 3.	Difficult to Hire	Difficult to	o Retain			
В.	If your defense-related work were to decline or below.							
	Identify your company's critical skills/competenc critical skills/competencies identified, how many	y months does it take to train a		ess of your CAD/PAD operations. Expl	ain. Finally, on average, for the			
C.	Skills/Competend	cies	Ехр	plain	Months Training			
	2.							
	3.							
	4.							
	5.							
D.	What is the typical process your company uses in	n training specialized engineer	s and scientists for CAD/PAD-related	work?				
	Are there institutions or programs that your company relies on to provide training/education for newly hired employees?							
E.								
	Is your company sponsoring, or participating, in below.	any university, state or U.S. Go	overnment programs to hire/recruit r	recent graduates? If "Yes", explain				
г.								
G.	What degree programs do you find most conduc	cive to CAD/PAD-related work?	•					
U.								
	Comments							
		BUSINESS CONFIDENTIAL	- Per Section 705(d) of the Defense P	Production Act				

In the last five years, have you experienced any labor concerns such as shortages of certain skills, excessive turnover, retirement of experienced workers, liability claims, etc. that adversely affect(ed) your CAD/PAD manufacturing or R&D operations? If "Yes", explain below.									
В.	Has your company had to increase staff to deal with U.S. Governr	ment regulations and policies? Explain below.							
	Identify the certifications that your company currently has or is w	vorking towards below:							
	AMS (specify)	J-STD-001DS							
	ANSI/ASQC Z1.4	MIL-Q-9858							
	ANSI/ESD S20.20	MIL-STD-45662 A							
	ANSI/ISO/IEC 17025	NADCAP (specify)							
	DoD 5000	NCLS (specify)							
	ISO 9000	SAE AS9003							
C.	ISO 9001	SAE AS9100							
С.	ISO 9001 ISO 10012-1	SAE AS9100 Other (specify)							
C.		Other (specify) Other (specify)							
C.	ISO 10012-1 ISO 14000 ISO TS16948	Other (specify) Other (specify) Other (specify)							
C.	ISO 10012-1 ISO 14000 ISO TS16948 * AMS (Aerospace Material Specifications)	Other (specify) Other (specify) Other (specify) * NADCAP (National Aerospace and E	<u> </u>						
C.	ISO 10012-1 ISO 14000 ISO TS16948 * AMS (Aerospace Material Specifications) * ANSI (American National Standards Institute)	Other (specify) Other (specify) Other (specify) * NADCAP (National Aerospace and E * Contractors Accreditation Program)						
C.	ISO 10012-1 ISO 14000 ISO TS16948 * AMS (Aerospace Material Specifications)	Other (specify) Other (specify) Other (specify) * NADCAP (National Aerospace and E * Contractors Accreditation Program * NCLS (National Clinical Lab Specialis) st)						
C.	ISO 10012-1 ISO 14000 ISO TS16948 * AMS (Aerospace Material Specifications) * ANSI (American National Standards Institute)	Other (specify) Other (specify) Other (specify) * NADCAP (National Aerospace and E * Contractors Accreditation Program) st)						

Section 12.a	FINANCIALS										
Report select line items from your company's financial s	· · · · · · · · · · · · · · · · · · ·	rom the drop-down indicate	whether the reported income statem	ent and balance sheet							
select line items are Business Unit/Division or Corporate	e/Whole Company financials.										
Note: Business Unit/Division financials are preferred.											
ote: Calendar year data is preferred.											
Source of Financial Line Items:											
Reporting Sch	iedule:										
Income Statement (Select Line Items)			Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12								
` · · · · · · · · · · · · · · · · · · ·	2007	2008 20	009 2010	2011							
A. Net Sales (and other revenue)											
B. Cost of Goods Sold											
C. Research and Development Expense											
D. Total Operating Income (Loss)											
E. Earnings Before Interest and Taxes											
F. Net Income											
Balance Sheet (Select Line Items)		Record in \$ Thou	ord in \$ Thousands, e.g. \$12,000.00 = survey input of \$12								
· · ·	2007	2008 20	2010	2011							
A. Inventories											
B. Total Current Assets											
C. Total Assets											
D. Total Current Liabilities											
E. Total Liabilities											
F. Retained Earnings											
G. Total Owner's Equity											
Comments:											
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act											

FINANCIALS (cont.) Section 12.b For your firm's CAD/PAD product operations, indicate the following financial line items for Defense and Non-Defense business for the years 2007 to 2011. **CAD/PAD Business Operations** Source of Financial Statement Line Items: Reporting Schedule: CAD/PAD Business Unit Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12 Income Statement (Select Line Items) 2008 2009 2011* 2007 2010 A. Net Sales (and other revenue) B. Cost of Goods Sold C. Research and Development Expense D. Total Operating Income E. Defense Operating Income [as a percent of D.] F. Non-Defense Operating Income [as a percent of D.] G. Operating Profit/(Loss) of CAD/PAD unit H. Earnings Before Interest and Taxes I. Net Income CAD/PAD Business Unit Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12 2011* **Balance Sheet (Select Line Items)** 2007 2008 2009 2010 A. Inventories B. Total Current Assets C. Total Assets D. Total Current Liabilities E. Total Liabilities

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F. Retained EarningsG. Total Owner's Equity

Comments:

Section 12.c		FINANCIALS (cont.)			
•		arrative any anomalies, transactions, litigation, or non-recurring one-time events reflected in your financial statement line rger and acquisition, chapter 11, SEC investigation, etc.			
A.	2008				
В.	2009				
C.	2010				
D.	2011				
	Comments:				
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act					

Section 13 MERGERS & ACQUISITIONS/JOINT-VENTURES							
	Did y	your company undergo any mergers	s and/or acquisitions from calendar ye	ears 2005-2011? If "Yes'	', identify yo	ur most significant	
	merg	gers and/or acquisitions over the pe	riod. Then, record the subject entity	's name, transaction type	e, entity's loc	cation, calendar year,	
	and t	the primary objective of the deal.					
	Entity Name		Transaction Type	Entity's Location	Year	Primary Objective	
A.	1.						
	2.						
	3.						
	4.						
	5.						
	Iden	tify your company's current CAD/PA	AD-related joint venture relationships	, including public/private	e R&D partne	erships. Provide the name of the	
				= :	· ·	ure's purpose, e.g. patent licensing, co-	
	production, product integration, after-market support, etc.		· ·	,	,	7 7 7 7 7	
	P . C C		v Name	U.S./Non-U.S.	Primary Objective of Relationship		
В.	1.		,			, ,	
	2.						
	3.						
	4.						
	5.						
		Comments:					
		P	USINESS CONFIDENTIAL - Per Section	705(d) of the Defense	Production A	Act	

Secti	on 1	4	CAPITAL EXPENDITURES								
Secu	Record your capital expenditures corresponding to the select categories for the years 2007 to 2011.										
				c , ca							
	Note	Note: Lines b. through f. should equal 100%.									
		Source of Capital Expen	nditure Data:								
		Capital Expenditure Repo									
		Capital Expenditure	Category	2007	2008	2009	2010	2011			
Α.	a.	Total Capital Expenditures									
		Machinery, Equipment, and Vehicles [as									
		IT, Computers, Software [as a percent of a.									
	d.	Land, Buildings, and Leasehold Improvem	nents [as a percent of a.]								
	e.	Other (specify) [as a percent of a.]									
	f.	Other (specify) [as a percent of a.]									
	g.	% of Total Capital Expenditures relating to	o CAD/PAD business lines								
		[as a percent of a.]									
*If da	ata is	not available, provide estimates.									
	Fron	from 2007-2011, rank the top five reasons for investment from 1 to 5 ("1" being the top reason). If the reasons identified below do not apply to									
	all si	Il situations, please use "other" and specify.									
	a.	a. Replace old equipment									
	b. Improve productivity										
В.	c.	Expand capacity									
		d. Add new capability									
	e.	e. Upgrade technology									
	f. Meet specific customer requirements										
	g.										
	h.	Other (specify):									
		Comments:									
		DIJCINIFEC CON	NFIDENTIAL - Per Section 705(d)	of the Defense D	raduation Ass						

Sect	ection 15.a RESEARCH AND DEVELOPMENT										
Reco	ord your company's total research and development (R&D) dollar expenditure	s and the perc	entage of total	R&D expendi	tures relating to	Defense and	Commercial CA	AD/PAD busin	ess lines.		
Note	e: Lines b. through d. should equal 100%.										
	Source of R&D Reporting:										
	R&D Reporting Schedule:										
	Defense and Commercial Expenditures	20	007	20	800	20	009		010	20	011
		Defense	Commercial	Defense	Commercial	Defense	Commercial	Defense	Commercial	Defense	Commercial
	a. Total R&D Expenditures										
A.	b. Basic Research [as a percent of a.]										
	c. Applied Research [as a percent of a.]										
	d. Product/Process Development [as a percent of a.]										
	e. % of Total R&D Expenditures relating to CAD/PAD business lines										
В.	Who was the primary driver of your R&D, prime contractors or U.S. Government	nent customer	s?								
C.	C. Record the degree of compatibility of your Defense CAD/PAD-related research & development with Non-Defense customers and applications.										
	Comments:										
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act										

_								
Sect	ion 1!	5.b	RESEARCH AND DEV	ELOPMENT (cont.)				
Reco	rd yo	our company's total research and deve	lopment (R&D) dollar expenditures b	y funding sources, a	as a percent of total	R&D dollars source	ed.	
Note	: If yo	our company's annual Total R&D Expe	nditures and Total R&D Funding Sour	ces do not match, e	explain the discrepa	ncy in the space pro	ovided.	
Note	: Cale	endar year data is preferred.	· ·					
		Source of R&D Re	norting:					
		R&D Reporting So						
	CAD/PAD R&D Funding Sources			2007	2008	2009	2010	2011
		CAD/FAD N&D FUI	2007	2006	2009	2010	2011	
	a.	Total R&D Funding Sources						I
	b.	Internal/Self-Funded/IRAD [as a percen						
Α.	c.	Total Federal Government [as a percen	t of a.]					
A.	d.	Total State and Local Government [as						I
	e.	e. Universities - Public and Private [as a percent of a.]						
	f. U.S. industry, venture capital, non-profit [as a percent of a.]							
	g.	Non-U.S. investors [as a percent of a.]						
	h.	Other (specify)						
Comments:								
			BUSINESS CONFIDENTIAL - Per S	ection 705(d) of the	Defense Productio	n Act		

Sect	ion 16 CUSTOMER CAPABILITIES					
Α	Based on your experience, what trends have you observed about the following technical capabilities within U.S. Government customers (including Department of Defense, Indian Head, Hill Air Force Base, and other USG customers)? a. Preparation of technical specifications b. Technical knowledge of your product c. Technical discussion of ordnance application in their system d. Technical ability to evaluate proposed design and compare					
Based on your experience, what trends have you observed about the following technical capabilities within prime contractor customers? a. Preparation of technical specifications b. Technical knowledge of your product c. Technical discussion of ordnance application in their system d. Technical ability to evaluate proposed design and compare Does your company find working with prime contractors or U.S. Government customers more efficient?						
C.						
	Comments:					
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act					

U.S. GOVERNMENT POLICIES Section 17.a With respect to your CAD/PAD operations, what reasonable adjustments would you recommend be made to the following U.S. Government policies, laws, and regulations that would moderate any competitive disadvantages that U.S. firms might face. Policy/Law/Regulation Adjustment a. Build to Print vs Performance Specifications b. Competitive Bidding c. Environmental and Safety Regulations d. Export Controls e. Government Competition f. Lot Acceptance Testing g. Procurement h. Research and Development i. Shipping Classifications j. Small Business Asides k. Small Business Innovative Research Program I. Other (specify) Identify the main issues and challenges affecting the long-term viability of your facility/plant's product line(s) or service(s). Select a response for each issue/challenge. **Buy America Waivers** Labor Costs Difficulty Obtaining Key Inputs (Materials, Services, etc.) Proximity to Customer **Domestic Competition** Proximity to Supplier Environmental Regulations/Remediation Qualifications/Certifications **Export Controls** R&D Costs Foreign Competition Skills Retention Foreign Subsidies/Import Restrictions Taxes Government Budget Volatility Variability of Demand Government Regulatory Burden Other (specify) Healthcare Other (specify) Comments: BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

	on 17.b U.S. GOVERNMENT POLICIES (cont.) Has your company experienced lost sales due to export controls between the years 2007 to 2011? Explain below.	International Traffic in Arms Regulations (ITAR) Commerce Control List (CCL)					
В.	Has your company chosen not to bid, cancelled an existing contract, or terminated a business line due to export controls?						
C.	What recommendations would you provide for streamlining/improving the export control processes? Explain below.						
D.	Has mandated second sourcing been beneficial or non-beneficial to your company? Explain below.						
E.	What recommendations would you provide for improving the second-sourcing process? Explain below.						
L.							
F.	Will the declining U.S. military presence in Iraq and Afghanistan affect your company's CAD/PAD business? If "Yes", explain below.						
G.	Are you concerned with proposed or potential defense or U.S. Government budget cuts? If "Yes", explain below.						
	Comments:						
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act						

Secti	Section 17.c U.S. GOVERNMENT POLICIES (cont.)							
•	Has your company been impacted by delays in Foreign Military Sales (FMS) payment and shipping? If "Yes", explain below.							
A.								
В.	3. What percent of your firm's CAD/PAD-related exports are sold through direct FMS?							
•	Select the dollar range value of the FMS products you are currently storing for transport at your facility.							
C.								
D.	On average, how long do you store FMS products before transport/shipping?							
D.								
E.	s revenue recognized from FMS sales affected by delays in transporting the product to the customer? Explain below.							
Е.								
-	What recommendations would you provide for streamlining the FMS payment and shipping process?							
F.								
	. Comments:							
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act							

	EFFECTIVENESS OF PREVIOUS ASSESSMENTS The 1995, 2000, and 2006 CAD/PAD Assessments made several recommendations. Please review the questions below regarding the previous Department of Commerce study						
	ommendations.	Department of Commerce study					
1.	Have you experienced an improvement in your relations with the CAD/PAD Joint Program Office?						
2.	Has the CAD/PAD Joint Program Office provided Defense Budget forecasts for CAD/PAD devices?						
3.	Has the CAD/PAD Joint Program Office briefed you on technical developments and new requirements?						
4.	Has the CAD/PAD Join Program Office provided a forum for you to discuss and address grivances?						
5.	Have you experienced an improvement in your relations with the Labor Department's Office of Saftey and Health Administration (OSHA)?						
6.	Have you experienced an improvement in your relations with the State Departments Export Control Branch?						
7.	Have you experienced an improvement in your relations with the Environmental Protection Agency (EPA)?						
8.	Has the CAD/PAD Joint Program Office contracted out a larger portion of product development and improvement to the CAD/PAD industry?						
9.	Has the CAD/PAD Joint Program Office implemented other policies that improved the CAD/PAD procurement environment?						
10.	Have you experienced improvenments in the lot acceptance testing process?						
11.	Does industry receive at least 90 percent of overall CAD/PAD orders?						
12.	Are the Technical Exchange Workshops hosted by the CAD/PAD Joint Program Office useful to you, or do they need improvement?						
13.	13. Does second-sourcing of CAD/PAD business help or hurt your company?						
	Comments:						
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act						

Section 19	CERTIFICATION				
The undersigned certifies that the information herein suppli-	ed in response to this questionnaire is complete and correct to the best of his/her knowledge. It is a				
criminal offense to willfully make a false statement or repres	sentation to any department or agency of the United States Government as to any matter within its				
jurisdiction (18 U.S.C.A. 1001 (1984 & SUPP. 1197))					
Company Name					
Company'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 comments or any o	ther information you wish to include regarding this survey assessment.				
Wastelland like to receive a trace and the time! CAR/RARI					
Would you like to receive a free copy of the final CAD/PAD					
report?					
low many hours did it take to complete this survey?					
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act					