

## **INDUSTRIAL BASE ASSESSMENT: NASA Supply Chain Network**



### **SCOPE OF ASSESSMENT**

The U.S. Department of Commerce, Bureau of Industry and Security (BIS), Office of Technology Evaluation, in coordination with the National Aeronautics and Space Administration (NASA), Exploration Systems Mission Directorate (ESMD), is conducting an industrial base survey of NASA's supply chain network. The principal goal of this data collection is to analyze the health and competitiveness of this U.S. supplier segment. The data collected will also be used to measure the industrial base impacts attributed to the cancellation of both the Space Shuttle and Constellation 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 Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C App.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.

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 11 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**

<b>BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act</b>						
<b>Section II</b>		<b>WHO MUST RESPOND TO THIS SURVEY</b>				
1.	My company has manufactured products and/or provided services, including integration, R&D, or software, for the National Aeronautics and Space Administration (NASA) since January 2000.			<b>Yes</b>	<b>No</b>	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2.	Has your company, directly or indirectly, performed any work for NASA since January 2007?			<b>Yes</b>	<b>No</b>	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3.	If you selected "Yes" to either of the above questions, place a <input checked="" type="checkbox"/> next to the corresponding programs your company has supported, if known, and continue completing this survey. <i>drop-down Yes/No in Excel version</i>					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Space Shuttle	<input checked="" type="checkbox"/>	International Space Station	<input checked="" type="checkbox"/>	Constellation
	<input checked="" type="checkbox"/>	Science Mission Directorate (SMD)	<input checked="" type="checkbox"/>	Aeronautics Research Directorate (ARD)	<input checked="" type="checkbox"/>	Other NASA
4.	If you selected "No," complete "Exemption From Survey" below.					
<b>EXEMPTION FROM SURVEY</b>						
If your operations have not involved any NASA business since 2000, you may be exempt from completing this U.S. Government survey. Please call one of the BIS contacts listed in "General Instructions" to verify your status. Then, complete steps 5-7 below.						
5.	Briefly explain the products and/or services provided by your organization in the space below:					
Explanation:						
6.	Before 2000, did your company do any work for NASA? If "Yes," describe the products and/or services below.			<b>Yes</b>	<b>No</b>	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Explanation:						
7.	Please complete and print out the "Certification" page. Then, return a signed copy of the "Certification" page <u>only after your Empowered Official or Point of Contact has confirmed your company's exemption by speaking with one of our staff.</u> Please transmit the "Certification" to our offices via U.S. mail, express courier, E-mail, or FAX (202) 482-5361.					

**Section III**

**GENERAL INSTRUCTIONS**

Make sure to follow instructions 1-5 in completion of the Excel survey.

1. BIS will only accept Excel versions of this survey that are downloaded and saved from [http://www.bis.doc.gov/NASA\\_survey](http://www.bis.doc.gov/NASA_survey). Before making inputs make sure to save a copy of the Excel survey to your computer.
2. For your convenience and internal data collection/reference purposes only, a PDF version of the survey is made available on the BIS web link. Do not submit the PDF version. BIS will only accept the Excel version.
3. Upon completion, review, and certification of the survey please transmit the Excel survey document by E-mail to the secure, U.S. Federal Government E-mail address at [NASA\\_survey@bis.doc.gov](mailto:NASA_survey@bis.doc.gov).
4. For survey questions, E-mail [NASA\\_survey@bis.doc.gov](mailto:NASA_survey@bis.doc.gov) (preferred method of contact for survey questions) or contact Jason Bolton, Trade and Industry Analyst, at (202) 482-5936, Anna Bruse, Trade and Industry Analyst, at (202) 482-7418, or Michael Finucane, Trade and Industry Analyst, at (202) 482-3893.
5. For letter correspondence or program questions please write to:  
  
Brad Botwin, Director, Industrial Studies  
U.S. Department of Commerce  
Room 1093, Bureau of Industry and Security  
1401 Constitution Avenue, Northwest, Washington, DC 20230  
  
Please do not submit completed surveys to this address; all Excel surveys must be submitted electronically to [NASA\\_survey@bis.doc.gov](mailto:NASA_survey@bis.doc.gov).  
  
Brad Botwin can also be reached at [bbotwin@bis.doc.gov](mailto:bbotwin@bis.doc.gov) or (202) 482-4060.

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<b>NASA Supply Chain Network</b>		
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**BUSINESS CONFIDENTIAL – Per Section 705(d) of the Defense Production Act**

<b>BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act</b>	
<b>Section V NASA Supply Chain Network</b>	
<b>Term</b>	<b>Definition</b>
Applied Research	R&D research expenditure category dedicated to the application of findings from basic research toward discovering new scientific knowledge that has specific commercial objectives with respect to new product, services, processes, or methods. [National Science Foundation]
Authorizing Official	Executive officer of the company or business unit or other individual who has the authority to execute this survey on behalf of the firm.
Basic Research	R&D research expenditure category dedicated to the pursuit of new scientific knowledge or understanding that does not have specific immediate commercial objectives with respect to new products, services, processes, or methods. [National Science Foundation]
CAGE Code	Commercial and Government Entity (CAGE) Code identifies companies doing or wishing to do business with the U.S. Federal Government. The code is used to support mechanized government systems and provides for a standardized method of identifying a given facility at a specific location. The code may be used for a Facility Clearance, a Pre-Award survey, automated Bidders Lists, pay processes, source of supply, etc. In some cases, prime contractors may require their sub-contractors to have a CAGE Code.
Capacity Utilization	The extent to which an enterprise uses its total annual installed manufacturing capacity.
End-User	Entity responsible for the intended application or use of a particular product or service.
Full Time Equivalent (FTE) Employees	Employee in each labor type/function area based on a 40 hour work-week. NASA suppliers should allocate no less than 1/4 of a person to a particular function and also convert part-time employees into "full-time" equivalents, e.g. 10 part-time employees working 20 hours per week for a full 12 month period are the full-time equivalent of 5 full-time employees for that 12 month period.
NAICS Code	North American Industry Classification System (NAICS) codes identify the category of product(s) or service(s) provided by your company. Find NAICS codes at <a href="http://www.census.gov/epcd/www/naics.html">http://www.census.gov/epcd/www/naics.html</a> .
Orbiter	Reusable manned spacecraft used in the Space Transportation System (STS), e.g. Atlantis, Challenger, Columbia, Discovery, and Endeavor. The orbiter, also known as the orbiter vehicle, contains both the astronauts and payload on STS/Space Shuttle missions.
Orion	Manned spacecraft formally known as the Crew Exploration Vehicle (CEV) and part of the Constellation program.
Process/Product Development	R&D development expenditure category dedicated to the systematic use of the knowledge or understanding gained from research or practical experience directed toward the production or significant improvement of useful products, services, processes, or methods, including the design and development of prototypes, materials, devices, and systems. [National Science Foundation]
Space-related	Refers to all product, service and technology categories enumerated in this survey's Product and Service Type List.
United States	The "United States" or "U.S." includes the 50 states, Puerto Rico, the District of Columbia, the island of Guam, the Trust Territories, and the U.S. Virgin Islands.
Space Transportation System (STS)	Includes the Space Shuttle and all NASA facility operations in support of Space Shuttle launch. NASA will have performed 134 STS missions from 1982-2010.
Utilization Rate	Percentage measure of production capacity use based on a 7-day-a-week, 3x8 hour shift production schedule.

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

BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act				
Section 1		Company Information		
<b>U.S. Address only</b>				
Name of Company		Street Address	City	State      Zip
Internet Home Page		Phone Number		FAX Number
http://				FAX
<b>Business Identification Information</b> --make sure to use the corresponding web links if this information is not readily available.				
Data Universal Numbering System (DUNS) Number(s) *	room for 5	NASA-related NAICS (6-digit) code(s) **	room for 5	* Find your company's DUNS number(s) at <a href="https://eupdate.dnb.com/requestoptions.asp?cm_re=HomepageB*TopNav*DUNSNumberTab">https://eupdate.dnb.com/requestoptions.asp?cm_re=HomepageB*TopNav*DUNSNumberTab</a> ** North American Industry Classification System (NAICS) codes identify the category of product(s) or service(s) provided by your company. Find NAICS codes at <a href="http://www.census.gov/epcd/www/naics.html">http://www.census.gov/epcd/www/naics.html</a> *** Harmonized Tariff Schedule (HTS) codes (10-digit) can be found at "HTS Online Reference Tool" located under "Research Tools" at <a href="http://www.usitc.gov/index.htm">http://www.usitc.gov/index.htm</a>
Commercial and Government Entity (CAGE) code(s)	room for 5	NASA-related Harmonized Tariff Schedule (HTS) (10-digit) code(s) ***	room for 5`	
<b>Primary Point of Contact Regarding Survey Completion</b>				
Name(s)	Phone	State	E-mail Address	
		drop-down		
<b>Business Description</b>				
From the drop-down select the business lines describing your company's primary focus. Provide a short description of the corresponding business lines next to each selected category. If your company has more than one dominant focus, rank them 1 <sup>st</sup> -3 <sup>rd</sup> by net sales.				
Business Lines			Additional Description	
1 <sup>st</sup> -3 <sup>rd</sup> ranked focus--3 drop-down boxes in Excel version; 3 corresponding blank description boxes				
Distribution	Professional Services			
Inspection and Quality Control	R&D			
Integration	Raw Materials			
Maintenance/Aftermarket	Reseller			
Manufacturing	Retail			
Manufacturing Systems Development and Management	Service			
Material Finishing (Machining, Coating, Plating, Assembly, etc.)	Testing/Evaluation/Validation			
Material Preparation (Casting, Forming, Molding, Forging, etc.)	Other			
Product and Design Engineering (Tooling, New Processes, etc.)	Other			

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**BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act n Act**

**Section 1**

**Company Information *continued***

**Certifications**

Place a <input checked="" type="checkbox"/> next to the certifications that your company currently has.  * AMS (Aerospace Material Specifications) * ANSI (American National Standards Institute) * ASQ (American Society for Quality) * ISO (International Organization for Standards) * NADCAP (National Aerospace and Defense Contractors Accreditation Program) * NCLS (National Clinical Lab Specialist) * SAE (SAE International, formerly the Society of Automotive Engineers)	<input checked="" type="checkbox"/>	AMS	specify here	<input checked="" type="checkbox"/>	ISO TS16948	
	<input checked="" type="checkbox"/>	ANSI/ASQC Z1.4		<input checked="" type="checkbox"/>	J-STD-001DS	
	<input checked="" type="checkbox"/>	ANSI/ESD S20.20		<input checked="" type="checkbox"/>	MIL-Q-9858	
	<input checked="" type="checkbox"/>	ANSI/ISO/IEC 17025		<input checked="" type="checkbox"/>	MIL-STD-45662 A	
	<input checked="" type="checkbox"/>	DoD 5000		<input checked="" type="checkbox"/>	NADCAP	specify here
	<input checked="" type="checkbox"/>	ISO 9000		<input checked="" type="checkbox"/>	NCLS	specify here
	<input checked="" type="checkbox"/>	ISO 9001		<input checked="" type="checkbox"/>	SAE AS9003	
	<input checked="" type="checkbox"/>	ISO 10012-1		<input checked="" type="checkbox"/>	SAE AS9100	
	<input checked="" type="checkbox"/>	ISO 14000		<input checked="" type="checkbox"/>	Other	specify here

How does your company sell its products or services to NASA? Place a <input checked="" type="checkbox"/> next to all that apply.	<input checked="" type="checkbox"/>	Direct to NASA
	<input checked="" type="checkbox"/>	Indirectly/via 3 <sup>rd</sup> party
	<input checked="" type="checkbox"/>	Both direct and indirect
	<input checked="" type="checkbox"/>	Not sure

**Company Ownership**

My company is headquartered in:		Country	drop-down
I am the parent company:		Yes/No	drop-down
I am a U.S. subsidiary of a non-U.S. parent company:		Yes/No	drop-down
I am a business unit or division of a U.S. parent company or organization:		Yes/No	drop-down
Parent Company Name, if applicable	City	State	Country
		drop-down	drop-down

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

**Section 2**

**PRODUCT AND SERVICE TYPE LISTING**

Place a  next to the NASA Space Shuttle, International Space Station (ISS), or Constellation program elements in which your company has participated.  = Yes/No drop-down in Excel version

<input checked="" type="checkbox"/>	<b>Space Shuttle, International Space Station (ISS), or Constellation program element</b>				
<input checked="" type="checkbox"/>	HSFPE1	Ares	<input checked="" type="checkbox"/>	HSFPE9	ISS-International Space Station
<input checked="" type="checkbox"/>	HSFPE2	Altair Lunar Lander	<input checked="" type="checkbox"/>	HSFPE10	Launch Abort System
<input checked="" type="checkbox"/>	HSFPE3	Ares Upper Stage	<input checked="" type="checkbox"/>	HSFPE11	Orbiter
<input checked="" type="checkbox"/>	HSFPE4	Ares Upper Stage Engines	<input checked="" type="checkbox"/>	HSFPE12	Orion
<input checked="" type="checkbox"/>	HSFPE5	CaLV-Cargo Launch Vehicle (e.g. Ares V)	<input checked="" type="checkbox"/>	HSFPE13	RSRM-Reusable Solid Rocket Motor
<input checked="" type="checkbox"/>	HSFPE6	CLV-Crew Launch Vehicle (e.g. Ares 1)	<input checked="" type="checkbox"/>	HSFPE14	Service Module
<input checked="" type="checkbox"/>	HSFPE7	ET-External Tank	<input checked="" type="checkbox"/>	HSFPE15	SRB-Solid Rocket Booster
<input checked="" type="checkbox"/>	HSFPE8	EVA-Extravehicular Activity	<input checked="" type="checkbox"/>	HSFPE16	SSME-Space Shuttle Main Engine

Place a  by the products and service type codes corresponding to your company's current business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure."  = Yes/No drop-down in Excel version

<input checked="" type="checkbox"/>	<b>A</b>	<b>Services</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	A1	Commercial Satellite Operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A1A	Broadcast	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A1B	Communication / Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A1C	Remote Sensing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2	Professional Services	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2A	Spacecraft	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2A1	Product Assurance, Quality Control, Safety	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2A2	Assembly, Integration and Testing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2A3	Systems Engineering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2A4	Program Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2A5	Performance, Analysis and Simulation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2A6	Architecture Design	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2B	Launch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2B1	Operations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2B2	Product Assurance, Quality Control, Safety	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2B3	Assembly, Integration and Testing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2C	Ground	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2C1	Operations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A2C2	Maintenance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	A3	Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		specify here				



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

**Section 2**

**PRODUCT AND SERVICE TYPE LISTING *continued***

Place a  by the products and service type codes corresponding to your company's current business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure."  = Yes/No drop-down in Excel version

<input checked="" type="checkbox"/>	<b>B</b>	<b>Spacecraft</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	B1	Communications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B1A	Antenna Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B1B	Microwave Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B1C	Digital Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B1D	Switching Equipment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B1E	Transponder	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B1F	Laser Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B1G	Software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B2	Energy Generation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B2A	Solar Cell Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B2B	Solar Array Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B2C	Power Generators (excluding solar)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B3	Energy Storage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B3A	Batteries	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B3B	Other Energy Storage Equipment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B3C	Power Conditioning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4	Thermal Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4A	Blankets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4B	Coatings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4C	Cryogenics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4D	Heaters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4E	Radiators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4F	Insulation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B4G	Heat Pipes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B5	Structural	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B5A	Hydraulics, Valves, Actuators, Pneumatics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B5B	Mechanisms (Gimbals, Antennas, Arrays, Masts, etc.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B5C	Safety, Destruction Technology; Pyrotechnics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B5D	Metalworking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

**Section 2**

**PRODUCT AND SERVICE TYPE LISTING *continued***

Place a  by the products and service type codes corresponding to your company's current business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure."  = Yes/No drop-down in Excel version

<input checked="" type="checkbox"/>	<b>B</b>	<b>Spacecraft <i>continued</i></b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	B6	Attitude Determination and Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6A	Sensors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6B	Stabilization Hardware	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6C	Momentum Wheel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6D	Rendezvous and Docking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6D.i	Navigation Using Lunar Bearings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E	Guidance, Navigation and Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E.i	Automation for all Mission Phases	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E.ii	Autonomous Landing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E.iii	Hazard Detection and Avoidance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E.iv	Automated Rendezvous and Docking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E.v	Natural Feature Image Recognition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E.vi	LIDAR Feature Recognition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6E.vii	Lunar Surface Navigation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B6F	Software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7	Propulsion (spacecraft)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7A	Chemical Propulsion Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7B	Electric Propulsion Technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7C	Cold Gas Propulsion Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7D	Non-Toxic Monopropellant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7E	HTPB (Hydroxyl-Terminated Polybutadiene)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7F	LOX/LH2 (Liquid Oxygen/Liquid Hydrogen Reaction Control System)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7G	LO2/LCH4 (Liquid Oxygen/Liquid Methane Propulsion System)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B7H	Composite Nozzles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8	Payload	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8A	Optical Components	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8B	Infrared Detectors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8C	Visible Detectors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8D	Nuclear Detectors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8E	Hyper-Spectral Detectors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8F	Radar Components	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8G	Software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B8H	Atomic Clocks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	B9	Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		specify here				

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

<b>BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act</b>								
<b>Section 2</b>		<b>PRODUCT AND SERVICE TYPE LISTING <i>continued</i></b>						
Place a <input checked="" type="checkbox"/> by the products and service type codes corresponding to your company's <u>current</u> business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure." <span style="float: right;"><input checked="" type="checkbox"/> = Yes/No drop-down in Excel version</span>								
<input checked="" type="checkbox"/>	<b>C</b>	<b>Space Electronics</b>			<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	C1	Data Handling & Storage			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C2	Integrated Circuits/Semiconductors			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C3	Fiber Optics			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C4	Traveling Wave Tubes			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C5	Radiation-Hardened/Tolerant Electronics			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C5A	Field Programmable Gate Arrays			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C5B	Non-Volatile Memory			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C6	Fault Tolerant Computing			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C7	Memory			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C7A	Microprocessors			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C8	Micro-Sized Data Acquisition, Processing and Storage			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	C9	Other	specify here		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>D</b>	<b>Software</b>			<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	D1	Development Tools			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D2	Verification and Validation			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D3	Design Level Re-Use			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D3A	Modeling and Analysis Tools of Physical Systems			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D3B	Modeling and Analysis Tools of Software systems			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D3C	Compliance and Model Checkers			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D4	Data Mining and Knowledge Management			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D5	Training Support and Simulation			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D6	Mission Automation			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D6A	Operations			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D6B	Monitoring			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D7	Integrated Systems Health Management			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D7A	Prognostic/Diagnostic Tools			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D7B	Solid Rocket Motor Health Management			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D7C	On-Board Decision Support Tools			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D7D	Fault Isolation and Root Cause Determination Tools			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	D8	Other	specify here		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

**Section 2**

**PRODUCT AND SERVICE TYPE LISTING *continued***

Place a  by the products and service type codes corresponding to your company's current business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure."  = Yes/No drop-down in Excel version

<input checked="" type="checkbox"/>	<b>E</b>	<b>Propulsion Systems</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	E1	Liquid Fuel Rocket	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E1A	Chamber	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E1B	Propellant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E1C	Igniter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E1D	Nozzle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E2	Solid Fuel Rocket	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E2A	Casing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E2B	Igniter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E2C	Propellant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E2D	Nozzle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E2E	Thrust Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E3	Electrical Power	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E3A	Generator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E3B	Battery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E3C	Harness	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E4	Operating System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E4A	Hydraulic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E4B	Pneumatic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E4C	Electro-Mechanical	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5	Guidance Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5A	GPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5A.i	Receivers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5A.ii	Processor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5B	Inertial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5B.i	Gyroscope	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5B.ii	Processor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E5B.iii	Controls	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E6	Safety System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E6A	Destruct Receiver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E6B	Ordnance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E6C	Navigation Devices	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E7	Structural System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E7A	Inter-stage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E7B	Fairings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E7C	Skirt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

<b>BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act</b>						
<b>Section 2</b>		<b>PRODUCT AND SERVICE TYPE LISTING <i>continued</i></b>				
Place a <input checked="" type="checkbox"/> by the products and service type codes corresponding to your company's <u>current</u> business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure." <span style="float: right;"><input checked="" type="checkbox"/> = Yes/No drop-down in Excel version</span>						
<input checked="" type="checkbox"/>	<b>E</b>	<b>Propulsion Systems <i>continued</i></b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	E8	Launch Related Materials	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E8A	Ablatives	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E8B	Advanced Composites	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E8C	Fibers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E9	Rocket Engines and Motors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E9A	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E9B	Liquid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E10	Telemetry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E11	Software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	E12	Other <input type="text" value="specify here"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>F</b>	<b>Ground Systems</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	F1	Ground Antennas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	F2	Telemetry, Tracking and Control Equipment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	F3	Software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	F4	Mission Data Processing Equipment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	F5	Communications Equipment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	F6	Other <input type="text" value="specify here"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>G</b>	<b>Specialty Materials</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	G1	Thermal Coatings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G2	Optical Coatings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G3	Dust Resistant Coatings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G4	Protective Coatings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G5	Structures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G6	Substrates	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G7	Composites	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G8	Optics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	G9	Other <input type="text" value="specify here"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

**Section 2** **PRODUCT AND SERVICE TYPE LISTING** *continued*

Place a  by the products and service type codes corresponding to your company's current business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure."  = Yes/No drop-down in Excel version

<input checked="" type="checkbox"/>	<b>H</b>	<b>Structures</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	H1	Friction Stir Welding and Spun Formed Dome	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H2	Composite Strut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H3	Lunar Habitats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H4	Long Life, Low Temperature Mechanical Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H5	Lightweight High Strength Window Materials	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H6	Radiation Shielding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H7	Tools to Determine Effect of Fields on Structures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H8	Advanced Composites	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H9	Habitation Structures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	H10	Other <input type="text" value="specify here"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>I</b>	<b>Protection Systems</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	I1	Radiation Shielding Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	I2	Heat Shields	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	I3	Bonding Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	I4	Free Flying Damage Protection System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	I5	Analysis Tools	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	I6	High Temperature Composites	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	I7	Other <input type="text" value="specify here"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>J</b>	<b>Dust Management</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	J1	Dust Mitigation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	J2	Dust Removal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	J3	Lunar Regolith Stimulants Development and Production	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	J4	Dust Tolerant Connectors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	J5	Other <input type="text" value="specify here"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>K</b>	<b>Surface Systems</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	K1	Energy Storage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K1A	Rechargeable Batteries	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K1B	Fuel Cells	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K1B.i	PEM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K1B.ii	Regenerative	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K2	Power Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K2A	High Voltage Distribution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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<b>BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act</b>						
<b>Section 2</b>		<b>PRODUCT AND SERVICE TYPE LISTING <i>continued</i></b>				
Place a <input checked="" type="checkbox"/> by the products and service type codes corresponding to your company's <u>current</u> business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure." <span style="float: right;"><input checked="" type="checkbox"/> = Yes/No drop-down in Excel version</span>						
<input checked="" type="checkbox"/>	<b>K</b>	<b>Surface Systems <i>continued</i></b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	K2B	Power Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K2C	Lightweight Cabling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K2D	Lightweight, High Strength Solar Arrays	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K2E	Nuclear Fission	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K3	Thermal Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K3A	Phase Change Material	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K3B	Heat Rejection systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K3C	Heat Sinks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K3D	Heat Exchangers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K3E	Long Duration Fluids	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K3F	Coldplate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K4	Supportability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K4A	Detection, Repair, and Self-Repair	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K4B	Non-Destructive Evaluation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K4C	Light Weight, Low Power Manufacturing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	K4D	Repair Tools and Techniques	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	K5	Other <span style="float: right;">specify here</span>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>L</b>	<b>Extra-Vehicular Activity (EVA)</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	L1	Space Suite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1A	Packaging	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1B	Ventilation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1C	Oxygen Supply	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1D	Thermal Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1E	Communications, Avionics, and Informatics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1F	Dust Tolerant Fluid Connectors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1G	Materials and Pressure Garment Components	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L1H	Rapid Recharge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L2	CO2 and H2O Recovery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L3	Suitport / Suitlock / Airlock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L4	Other <span style="float: right;">specify here</span>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

<b>BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act</b>						
<b>Section 2</b>		<b>PRODUCT AND SERVICE TYPE LISTING <i>continued</i></b>				
Place a <input checked="" type="checkbox"/> by the products and service type codes corresponding to your company's <u>current</u> business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure." <span style="float: right;"><input checked="" type="checkbox"/> = Yes/No drop-down in Excel version</span>						
<input checked="" type="checkbox"/>	<b>M</b>	<b>Robotic Systems</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	M1	Lunar Rover	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	M1A	Wheels	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	M1B	Automated Docking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	M1C	Drivetrain and Suspension System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	M1D	Active Suspension Control System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	M2	Automated Payload Offloading	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	M3	High Dexterity Manipulation Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	M4	Element Mating Mechanism	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>N</b>	<b>Environmental Control and Life Support (ECLS)</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	N1	CO2 and Moisture Removal System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N2	High Pressure Oxygen Supply	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N3	Wastewater Recovery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N4	Oxygen Recovery from Carbon Dioxide	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N5	Biocides	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N6	Hygiene and Waste Removal Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N7	Post-fire Cleanup Device	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N8	Waste Treatment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	N9	Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		specify here				
<input checked="" type="checkbox"/>	<b>O</b>	<b>Environmental Monitoring and Control</b>	<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	O1	Atmospheric	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O1A	Particulate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O1B	Microbial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O1C	Fire	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O1D	Gasses	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O2	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O2A	Materials and Pressure Garment Components	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O2B	Rapid Recharge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O3	CO2 and H2O Recovery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O4	Suitport / Suitlock / Airlock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	O5	Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>				



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

<b>BUSINESS CONFIDENTIAL—Per Section 705(d) of the Defense Production Act</b>								
<b>Section 2</b>		<b>PRODUCT AND SERVICE TYPE LISTING <i>continued</i></b>						
Place a <input checked="" type="checkbox"/> by the products and service type codes corresponding to your company's <u>current</u> business lines. For each product and service type selected, indicate whether the end-user is "NASA," "DoD," "Other," or "Not Sure." <span style="float: right;"><input checked="" type="checkbox"/> = Yes/No drop-down in Excel version</span>								
<input checked="" type="checkbox"/>	<b>P</b>	<b>In-Situ Resource Utilization</b>			<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	P1	Regolith Excavation and Handling			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	P2	Oxygen and Water Extraction from Regolith			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	P3	Lunar Excavation			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	P4	Mineral Mapping			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	P5	Volatile (H, C, N, He) Extraction from Regolith			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	P6	Other	specify here		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>Q</b>	<b>Communications and Navigation</b>			<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	Q1	Lunar Wireless Network			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Q2	Delay Tolerant Networking			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Q3	Atomic Clocks			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Q4	Routers			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Q5	IPSec			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Q6	High Bandwidth Optical Communications			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Q7	Other	specify here		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<b>R</b>	<b>End User Equipment</b>			<b>NASA</b>	<b>DoD</b>	<b>Other</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	R1	Communication/Data			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	R2	Navigation			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	R3	Other	specify here		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

**Section 3 Relationships—NASA Supply Chain Network**

**U.S. Mergers and Acquisitions**   here if not applicable to your company

Identify your company's FIVE most significant U.S. mergers and acquisitions from 2007 to date. Record the merged/acquired company's name(s) and location, the year the merger/acquisition occurred, and the primary objective of the merger/acquisition.

	Name of Company	State	Year	Primary Objective
1.		drop-down	drop-down	
2.				
3.				
4.				
5.				

**Non-U.S. Mergers and Acquisitions**   here if not applicable to your company

Identify your company's FIVE most significant Non-U.S. mergers and acquisitions from 2007 to date. Record the merged/acquired company's name(s) and location, the year the merger/acquisition occurred, and the primary objective of the merger/acquisition.

	Name of Company	Country	Year	Primary Objective
1.		drop-down	drop-down	
2.				
3.				
4.				
5.				

Section ? Comment:

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

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

**Section 3 Relationships—NASA Supply Chain Network *continued***

**Joint Venture Relationships Related to NASA Business**   here if not applicable to your company

Identify your company’s current NASA-related joint venture relationships, including public/private R&D partnerships. Provide the name of the company/entity involved, indicating whether a U.S. or Non-U.S. enterprise, and a description of the joint venture’s purpose, e.g. patent licensing, co-production, product integration, after-market support, etc. Then, indicate whether the joint venture is related to Space Shuttle, ISS, or Constellation programs.

Name and U.S./Non-U.S.				Primary Objective of Relationship	Space Shuttle, ISS, or Constellation program-related?		
here	Name <input checked="" type="checkbox"/>	U.S.	Non	Description <input checked="" type="checkbox"/>	Yes	No	Not Sure
	1.		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
2.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
3.	Room for 5 in Excel version	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Room for 5 in Excel version			

**Competition**

Identify your company’s leading U.S. and Non-U.S. competitors. Record the name, location, and corresponding Product and Service Type Codes relating to the competition.

Name and Location of FIVE U.S. Competitors			Part/Component/Material/Service				
U.S. Name	State		Codes from List				
1.		drop-down	drop-down	drop-down	drop-down	drop-down	drop-down
2.							
3.	Room for 5 in Excel version						

Name and Location of FIVE Non-U.S. Competitors			Part/Component/Material/Service				
Non-U.S. Name	Country		Codes from List				
1.		drop-down	drop-down	drop-down	drop-down	drop-down	drop-down
2.							
3.	Room for 5 in Excel version						

Section ? Comment:

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

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

**Section 3 Relationships—NASA Supply Chain Network *continued***

**U.S. and Non-U.S. Supplier Relationships**

Identify your company's TEN most significant U.S. and Non-U.S. supplier relationships that support NASA programs, directly or indirectly. Record the names and locations of the TEN supplier facilities. Do not include internal company suppliers. Then, select the codes corresponding to the part, component, material, or service supplied to your company by each supplier. Lastly, indicate if the supplied parts, components, materials, or services are used in Space Shuttle, ISS or Constellation programs.

Name and Location of TEN U.S. Suppliers		Part/Component/Material/Service			Space Shuttle, ISS, or Constellation program-related?			
U.S. Supplier Name		State	Code from List			Yes	No	Not Sure
1.		drop-down	drop-down	drop-down	drop-down	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.								
3.								
4.								
5.	Room for 10 in Excel version							
Name and Location of TEN Non-U.S. Suppliers		Part/Component/Material/Service			Space Shuttle, ISS, or Constellation program-related?			
Non-U.S. Supplier Name		Country	Code from List			Yes	No	Not Sure
1.		drop-down	drop-down	drop-down	drop-down	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.								
3.								
4.								
5.	Room for 10 in Excel version							

Section ? Comment:

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

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

**Section 3**

**Relationships—NASA Supply Chain Network *continued***

**NASA Customers**

Place a  next to the NASA facilities/centers/laboratories your company has served in any production or service capacity since 2007, or indicate if “Yes” but you do not know which ones your company has served.

		<input checked="" type="checkbox"/> here is applicable	<input checked="" type="checkbox"/>	“Yes,” but we do not know which ones have been served		
<input checked="" type="checkbox"/>	<b>NASA Sites</b>			<input checked="" type="checkbox"/>	<b>NASA Sites</b>	
1.	<input checked="" type="checkbox"/>	Ames Research Center—Moffett Field, California	12.	<input checked="" type="checkbox"/>	Michoud Assembly Facility—New Orleans, Louisiana	
2.	<input checked="" type="checkbox"/>	Dryden Flight Research Center—Edwards, California	13.	<input checked="" type="checkbox"/>	NASA Headquarters—Washington, DC	
3.	<input checked="" type="checkbox"/>	Glenn Research Center—Cleveland, Ohio	14.	<input checked="" type="checkbox"/>	Plum Brook Station—Sandusky, Ohio	
4.	<input checked="" type="checkbox"/>	Goddard Space Flight Center—Greenbelt, Maryland	15.	<input checked="" type="checkbox"/>	Stennis Space Center—Mississippi	
5.	<input checked="" type="checkbox"/>	Goddard Institute of Space Studies—NY, New York	16.	<input checked="" type="checkbox"/>	Wallops Flight Facility—Virginia	
6.	<input checked="" type="checkbox"/>	IV and V Facility—Fairmont, West Virginia	17.	<input checked="" type="checkbox"/>	White Sands Test Facility—Las Cruces, New Mexico	
7.	<input checked="" type="checkbox"/>	Jet Propulsion Laboratory—Pasadena, California	18.	<input checked="" type="checkbox"/>	Other	specify here
8.	<input checked="" type="checkbox"/>	Johnson Space Center—Houston, Texas	19.	<input checked="" type="checkbox"/>	Other	specify here
9.	<input checked="" type="checkbox"/>	Kennedy Space Center—Cape Canaveral, Florida	20.	<input checked="" type="checkbox"/>	Other	specify here
10.	<input checked="" type="checkbox"/>	Langley Research Center—Hampton, Virginia	Yes/No drop-downs for <input checked="" type="checkbox"/> in Excel version			
11.	<input checked="" type="checkbox"/>	Marshall Space Flight Center—Huntsville, Alabama				

Section ? Comment:

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

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

**Section 4. Operations—NASA Supply Chain Network *continued***

**Production Capacity Utilization**

Record your company's annual overall production capacity utilization for 2007-2009, and projected rate for 2010.

Note: If you do not manufacture products but perform only services or R&D, place a  here and proceed to the next question.  here

drop-down % in Excel version	2007	2008	2009	2010 *
	%	%	%	%
Utilization Rate %	%	%	%	%

\* If data is not available for 2010, please provide estimates.

**Supply Chain Management**

From the list below select the supply chain management practices, methodologies, and systems that your company uses.

1. <input checked="" type="checkbox"/>	Advanced Planning System (APS)	17. <input checked="" type="checkbox"/>	Material Requirements Planning (MRP)
2. <input checked="" type="checkbox"/>	Bar Coding	18. <input checked="" type="checkbox"/>	Outsourcing
3. <input checked="" type="checkbox"/>	Close Partnership with Customers	19. <input checked="" type="checkbox"/>	Plan strategically
4. <input checked="" type="checkbox"/>	Close Partnership with Suppliers	20. <input checked="" type="checkbox"/>	Radio Frequency Identification (RFID)
5. <input checked="" type="checkbox"/>	Customer Relationships Management (CRM)	21. <input checked="" type="checkbox"/>	Subcontracting
6. <input checked="" type="checkbox"/>	Decision Support/Expert System	22. <input checked="" type="checkbox"/>	Supplier Relationships Management (SRM)
7. <input checked="" type="checkbox"/>	E-business	23. <input checked="" type="checkbox"/>	Supply Chain Benchmarking
8. <input checked="" type="checkbox"/>	E-commerce	24. <input checked="" type="checkbox"/>	Supply Chain Management (SCM)
9. <input checked="" type="checkbox"/>	Electronic Data Interchange (EDI)	25. <input checked="" type="checkbox"/>	Theory of Constraints (TOC)
10. <input checked="" type="checkbox"/>	Enterprise Resource Planning (ERP)	26. <input checked="" type="checkbox"/>	Third Party Logistics (3PL)
11. <input checked="" type="checkbox"/>	E-procurement	27. <input checked="" type="checkbox"/>	Use of External Consultants
12. <input checked="" type="checkbox"/>	Few Suppliers	28. <input checked="" type="checkbox"/>	Vertical integration
13. <input checked="" type="checkbox"/>	Holding Safety Stock	29. <input checked="" type="checkbox"/>	Warehouse Management System (WMS)
14. <input checked="" type="checkbox"/>	Just In Time (JIT)	30. <input checked="" type="checkbox"/>	Other specify here
15. <input checked="" type="checkbox"/>	Manufacturing Resources Planning (MRPII)	31. <input checked="" type="checkbox"/>	Other specify here
16. <input checked="" type="checkbox"/>	Many Suppliers	32. <input checked="" type="checkbox"/>	Other specify here

Explanation:

Section ? Comment:

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

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

**Section 4. Operations—NASA Supply Chain Network**

**Machinery, Tooling, Facilities**

Does your company own or lease any machinery, tooling, or facilities specifically for NASA Space Shuttle, International Space Station (ISS), or Constellation program-related business?	<b>YES</b>	<b>NO</b>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

If “Yes,” record [1] all related machinery, tooling, and/or facilities; [2] the use/purpose of each item; [3] whether the item was purchased, leased, or government furnished equipment (GFE), or combination thereof; [4] whether the item currently supports Space Shuttle, International Space Station (ISS), Constellation program-related business lines, or a combination thereof; and [5] the current status of the machine/tool/facility, e.g. idle, mothballed, in-use, re-tooled/re-built for non-NASA business lines, etc.

Note: Indicate whether Business Unit/Division or Corporate/Whole Company-level data.

Level of Reporting? <small>drop-down</small>		Business Unit/Division					Corporate/Whole Company			
Machine/Tool/Facility	Use/ Purpose	Owned?	Leased?	GFE?	Combination?	Shuttle?	ISS?	Constellation?	Combination?	Current Status
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Provide the first and most recent year of your company’s receipt of a Space Shuttle-related NASA production or service order.	<b>First</b>	<b>Most Recent</b>
	1975-2010 drop-down	1975-2010 drop-down

\* If data is not available for 2010, please provide estimates.

Section ? Comment:

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

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

**Section 5 Financial Health—NASA Supply Chain Network**

**Sales Table**

Provide your company's 2007-2010 sales information and projected 2011-2015 sales trend information.

Source of Sales Data? drop-down		Business Unit/Division				Corporate/Whole Company					
		Reporting schedule? drop-down		Fiscal Year		Calendar Year					
"U.S." means U.S., domestic sales; "Non-U.S." means export sales from U.S. located facilities		Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12									
		2007		2008		2009		2010 *		2011-2015 *	
		U.S.	Non-U.S.	U.S.	Non-U.S.	U.S.	Non-U.S.	U.S.	Non-U.S.	U.S.	Non-U.S.
1.	<b>Total Sales, all Customers</b>	\$	\$	\$	\$	\$	\$	\$	\$	Increase Decrease No Change Not Sure	Increase Decrease No Change Not Sure
2.	Total Non-Government Sales	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	Increase Decrease No Change Not Sure	Increase Decrease No Change Not Sure
3.	Total Government Sales	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	% of 1.	Increase Decrease No Change Not Sure	Increase Decrease No Change Not Sure
4.	<b>Total NASA Sales, all Programs</b>	\$\$\$		\$\$\$		\$\$\$		\$\$\$		Increase Decrease No Change Not Sure	
5.	Total Space Shuttle	% of 4		% of 4		% of 4		% of 4		Increase Decrease No Change Not Sure	
6.	Total ISS	% of 4		% of 4		% of 4		% of 4			
7.	Total Constellation Program	% of 4		% of 4		% of 4		% of 4			

\* If data is not available, please provide estimates.

Section ? Comment:



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

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

**Section 5**

**Financial Health—NASA Supply Chain Network *continued***

**Top 10 Customers**

Identify your company's ten most significant space-related customers (e.g. government, commercial, other) by dollar amount for years 2007-2010. Record the individual customer names and the dollar amount corresponding to aggregate sales from 2007-2010. Do not include internal customers.

Note: Rank customers in order of aggregate dollar sales value, i.e. the customer with the most sales is recorded in line 1.

Source of Customer Data? drop-down	Business Unit/Division	Corporate/Whole Company
------------------------------------	------------------------	-------------------------

<b>Customer Information—Space-Related Only</b>		<i>Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12</i>	
	Customer Name	U.S. or Non-U.S. Customer?	2007-2010 * Aggregate Dollar Sales
1.		drop-down	\$
2.		drop-down	\$
3.		drop-down	\$
4.		drop-down	\$
5.		drop-down	\$
6.		drop-down	\$
7.		drop-down	\$
8.		drop-down	\$
9.		drop-down	\$
10.		drop-down	\$

\* If data is not available for 2010, please provide estimates.

Section ? Comment:

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

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

**Section 5** **Financial Health—NASA Supply Chain Network** *continued*

**Export Sales**

Record the country of destination for your company's space-related export sales in 2007-2010.

If your company has not exported space-related products or services since 2007  here



Source of Export Sales Data? drop-down

Business Unit/Division

Corporate/Whole Company

**Countries**

*Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12*

**2007**

**2008**

**2009**

**2010 \***

	2007	2008	2009	2010 *
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

\* If data is not available for 2010, please provide estimates.

Have you decided to stop exporting space-related products or services because of past experiences with U.S. export license denials, conditions or extended delays? Explain.

Yes	No
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Explanation:

Have you lost export sales opportunities of space-related products or services to non-U.S. competitors because of U.S. export controls? If "Yes," select the total dollar amount of lost export sales opportunities from 2007-2010.

Yes	No
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Explanation:

<input checked="" type="checkbox"/>	Less than \$100,000	<input checked="" type="checkbox"/>	Between \$2-5 million	<input checked="" type="checkbox"/>	Between \$20-50 million
<input checked="" type="checkbox"/>	Between \$100-500,000	<input checked="" type="checkbox"/>	Between \$5-10 million	<input checked="" type="checkbox"/>	Between \$50-100 million
<input checked="" type="checkbox"/>	Between \$500,000-\$2 million	<input checked="" type="checkbox"/>	Between \$10-20 million	<input checked="" type="checkbox"/>	More than \$100 million

Section ? Comment:

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

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

**Section 5**

**Financial Health—NASA Supply Chain Network *continued***

Report select line items from your company's financial statement for years 2007-2010. From the drop-down indicate whether the reported income statement and balance sheet line items are Business Unit/Division or Corporate/Whole Company financials.

Note: Business Unit/Division financials are preferred.

Source of financial line items? <i>drop-down</i>	Business Unit/Division	Corporate/Whole Company
Reporting schedule? <i>drop-down</i>	Fiscal Year	Calendar Year

*Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12*

<b>Income Statement (Select Line Items)</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010 *</b>
1.	Net Sales (and other revenue)				
2.	Cost of Goods Sold				
3.	Operating Income				
4.	Other Income				
5.	Interest Expense				
6.	Provision for Income Taxes				
7.	Net Income				

*Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12*

<b>Balance Sheet (Select Line Items)</b>		<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010 *</b>
1.	Cash				
2.	Marketable Securities				
3.	Accounts Receivable				
4.	Inventories				
5.	Total Current Assets				
6.	Property, Plant, and Equipment				
7.	Total Non-Current Assets				
8.	Total Assets				
9.	Accounts Payable				
10.	Total Current Liabilities				
11.	Long-Term Debt (less current portion)				
12.	Total Non-Current Liabilities				
13.	Total Liabilities				
14.	Total Owner's Equity				

\* If data is not available for 2010, please provide estimates.

**Section 5**

**Financial Health—NASA Supply Chain Network *continued***

**Financial Statements *continued***

Feel free to qualify with narrative any anomalies or transactions reflected in your financial statement line items, e.g. accounting restatement, merger and acquisition, chapter 11, SEC investigation, etc.

1.	2007	
2.	2008	
3.	2009	
4.	2010	

Section ? Comment:

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

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

**Section 6 Employment—NASA Supply Chain Network**

**Personnel Numbers**

Record the total number of full time equivalent (FTE) employees in your U.S./domestic operations by labor type for the 2007-2010 period.

Note: “Total in U.S. Operations” should comprise all preceding labor categories. If not, please indicate why in the comment box.

Source of Occupational Data? drop-down		Business Unit/Division	Corporate/Whole Company			
			2007 #	2008 #	2009 #	2010 *
<b>Professional Occupations</b>						
1.		Administrative Staff				
2.		Production Managers/Supervisors/Executives				
3.		Research and Development (R&D) Staff				
4.		Production Line Workers, Support Technicians				
5.		Quality Control, Test Operators				
6.		Sales and Marketing				
7.		Facility Operations, Maintenance				
8.		IT/Network Engineers				
9.	Other	specify here				
10.	Other	specify here				
11.		Total in U.S. Operations				

\* If data is not available for 2010, please provide estimates.

**Personnel Description**

Estimate the percentage of your company’s total personnel in U.S. operations who participate (at any level) in Space Shuttle and Constellation program-related work?

Space Shuttle	Constellation Program
0-100%	0-100%

Section ? Comment:

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

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

**Section 6**

**Employment—NASA Supply Chain Network *continued***

From the drop-down list of professional occupations, indicate what categories of personnel are the most difficult to hire and retain. Explain.	Difficult to Hire	Difficult to Retain
	drop-down list	drop-down list
Explanation:		
Identify your company’s critical personnel skills and competencies, i.e. expertise that is critical to your company’s viability and long-term competitiveness.	1.	Example
	2.	Example
From the above list, which does your company consider its unique skills and competencies? Explain.	3.	Example
	4.	Example
Explanation:		
From the above list, which will your company lose due to Space Shuttle and/or Constellation program termination? Explain.	1.	Example
	2.	Example
Explanation:		
Does your company have production and/or inspection personnel that possess formal qualifications/certifications necessary for doing business with NASA, e.g. Non-Destructive Testing, Soldering Workmanship, etc.	<b>YES</b>	<b>NO</b>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Provide examples of such qualifications/certifications.	1.	Example
	2.	Example
	3.	Example
Does your company require its suppliers to maintain these qualifications/certifications?	4.	Example
	5.	Example
	6.	Example
If “Yes,” which qualifications/certifications?	7.	Example
	8.	Example
	9.	Example
Section ? Comment:		

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

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

**Section 7 Research and Development—NASA Supply Chain Network**

**R&D Expenditures and R&D Funding Sources**

Record your company’s total research and development (R&D) dollar expenditures and the percentage of total R&D expenditures relating to NASA business lines. Then, indicate both the type of R&D performed, by percent allocation, and your company’s R&D funding sources, by percent of total R&D dollars sourced.

Note: If your company's annual Total R&D Expenditures and Total R&D Funding Sources do not match, explain the discrepancy in the space provided.

Source of R&D Data? <input type="text"/>		Business Unit/Division		Corporate/Whole Company	
R&D reporting schedule? <input type="text"/>		Fiscal Year		Calendar Year	
R&D Expenditures \$ and % responses		Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12			
		2007	2008	2009	2010 *
1.	<b>Total R&amp;D Expenditures</b>	\$	\$	\$	\$
2.	% of Total relating to NASA business lines	% of 1.	% of 1.	% of 1.	% of 1.
3.	Basic Research	% of 1.	% of 1.	% of 1.	% of 1.
4.	Applied Research	% of 1.	% of 1.	% of 1.	% of 1.
5.	Product/Process Development	% of 1.	% of 1.	% of 1.	% of 1.
6.	TOTAL (must equal 100%)	% formula	% formula	% formula	% formula
R&D Funding Sources \$ and % responses		Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12			
		2007	2008	2009	2010 *
7.	<b>Total R&amp;D Funding Sources</b>	\$	\$	\$	\$
8.	Internal	% of 7.	% of 7.	% of 7.	% of 7.
9.	Total Federal Government	% of 7.	% of 7.	% of 7.	% of 7.
10.	Total State and Local Government	% of 7.	% of 7.	% of 7.	% of 7.
11.	Universities (public and private)	% of 7.	% of 7.	% of 7.	% of 7.
12.	U.S. industry, venture capital, non-profit	% of 7.	% of 7.	% of 7.	% of 7.
13.	Non-U.S. Investors	% of 7.	% of 7.	% of 7.	% of 7.
14.	Other <input type="text"/> specify here	% of 7.	% of 7.	% of 7.	% of 7.

\* If data is not available for 2010, please provide estimates.

Section ? Comment:

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

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

**Section 8 Investment—NASA Supply Chain Network**

**Capital Expenditures**

Record your company's capital expenditures corresponding to the select categories.

Source of Capital Expenditure Data? <small>drop-down</small>		Business Unit/Division	Corporate/Whole Company		
Capital Expenditure reporting schedule? <small>drop-down</small>		Fiscal Year	Calendar Year		
\$ and % responses		<i>Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12</i>			
		2007	2008	2009	2010 *
1.	Total Capital Expenditures	\$	\$	\$	\$
2.	Machinery, Equipment, and Vehicles	% of 1.	% of 1.	% of 1.	% of 1.
3.	IT, Computers, Software	% of 1.	% of 1.	% of 1.	% of 1.
4.	Land, Buildings and Leasehold Improvements	% of 1.	% of 1.	% of 1.	% of 1.
5.	Other specify here	% of 1.	% of 1.	% of 1.	% of 1.
6.	Other specify here	% of 1.	% of 1.	% of 1.	% of 1.
7.	% of Total Capital Expenditures relating to NASA business lines	% of 1.	% of 1.	% of 1.	% of 1.

\* If data is not available for 2010, please provide estimates.

Section ? Comment:



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

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

**Section 9**

**Future Outlook—NASA Supply Chain Network**

1.	Is your company dependent on NASA-related business?	<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.	How will NASA’s cancellation of the Space Shuttle and Constellation programs affect your business? Explain.			
Explanation:				
3.	Does your company have a plan in place to preserve its current capabilities and workforce in the post-Space Shuttle, post-Constellation program environment? Explain.	<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:				
4.	Has your company <u>already modified</u> its business plan and/or product lines in response to cancellation of the Space Shuttle and/or Constellation programs? Explain.	<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:				
5.	Does your company <u>plan to modify</u> its business plan and/or product lines in response to cancellation of the Space Shuttle and/or Constellation programs? Explain.	<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:				
6.	Does your company <u>currently</u> participate in commercial manned spaceflight programs? Explain.	<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:				
7.	<u>In the future</u> , will your company participate in commercial manned spaceflight programs? Explain	<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:				
Section ? Comment:				

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

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

**Section 9** **Future Outlook—NASA Supply Chain Network** *continued*

1. Will the loss of Space Shuttle or Constellation program business directly or indirectly affect your company’s ability to maintain its business lines with other government customers? If “Yes,” indicate which government customer and/or programs and explain. room for 4 drop-down selections and corresponding explanation boxes in Excel version					<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
<input checked="" type="checkbox"/>	U.S. Air Force (USAF)	<input checked="" type="checkbox"/>	Missile Defense Agency (MDA)	<input checked="" type="checkbox"/>	National Oceanic and Atmospheric Administration (NOAA)	<input checked="" type="checkbox"/>	Other specify here
<input checked="" type="checkbox"/>	Directorate for National Intelligence (DNI)	<input checked="" type="checkbox"/>	National Reconnaissance Office (NRO)	<input checked="" type="checkbox"/>	Unified Combatant Command (UCC)	<input checked="" type="checkbox"/>	Other specify here
2. Record the degree of compatibility of your overall NASA-related product lines with non-NASA customers and applications.							
<input checked="" type="checkbox"/>	Near 100%	<input checked="" type="checkbox"/>	Between 25-50%	<input checked="" type="checkbox"/>	None		
<input checked="" type="checkbox"/>	More than 50%	<input checked="" type="checkbox"/>	Less than 25%	<input checked="" type="checkbox"/>	Not Sure		
3. Have prime contractors affiliated with NASA programs provided your company any guidance on how to best respond to cancellation of the Space Shuttle and/or Constellation programs? Explain.					<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:							
4. Have NASA officials provided your company any guidance on how to best respond to cancellation of the Space Shuttle and/or Constellation programs? Explain.					<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:							
5. Is your company willing to support future NASA manned spaceflight programs after cancellation of the Space Shuttle and Constellation programs? Explain.					<b>Yes</b>	<b>No</b>	<b>Not Sure</b>
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Explanation:							
Section ? Comment:							

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

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

**Section 9**

**Future Outlook—NASA Supply Chain Network *continued***

1. Identify what industry/market segments your company has served in the <u>last 5 years</u> ?					
A.	Example	C.	Example	E.	Example
B.	Example	D.	Example	F.	Example
2. Identify what industry/market segments your company will target in the <u>next 5-10 years</u> ?					
A.	Example	C.	Example	E.	Example
B.	Example	D.	Example	F.	Example
3. Describe the actions your company has taken in the <u>last five years</u> to improve its competitiveness.					
Explanation:					
4. Describe the actions your company plans to take to improve its competitiveness over the <u>next five years</u> .					
Explanation:					
5. In addition to cancellation of both the Space Shuttle and Constellation programs, identify the main issues and challenges affecting the long-term viability of your company. Place a <input checked="" type="checkbox"/> next to all that apply and explain your response(s).					
<input checked="" type="checkbox"/>	Domestic Competition	<input checked="" type="checkbox"/>	Government Regulations	<input checked="" type="checkbox"/>	Skills Retention
<input checked="" type="checkbox"/>	Environmental	<input checked="" type="checkbox"/>	Health Care	<input checked="" type="checkbox"/>	Taxes
<input checked="" type="checkbox"/>	Export Controls	<input checked="" type="checkbox"/>	Imports	<input checked="" type="checkbox"/>	Variability of Demand
<input checked="" type="checkbox"/>	Foreign Competition	<input checked="" type="checkbox"/>	R&D Tax Credit	<input checked="" type="checkbox"/>	Other <span style="float:right">specify here</span>
Explanation:					
Section ? Comment:					

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

**Section 9** **Future Outlook—NASA Supply Chain Network** *continued*

1. Identify what policy changes or regulatory reforms you recommend the U.S. Government implement to enhance your competitiveness.

Explanation:

2.	Have you worked with any regional, state, local, or non-profit economic development agencies or organizations to address the post-Space Shuttle, post-Constellation program environment? These might include Space Florida, the California Space Authority (CSA), public or private universities or the U.S. Chamber of Commerce.	<b>Yes</b>	<b>No</b>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Explanation:

Section ? Comment:

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

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

**Section 10 Certification—NASA Supply Chain Network**

The undersigned certifies that the information herein supplied 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 representation 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 or Organization Name		Website	
Name of Authorizing Official		Title of Authorizing Official	
Phone Number		Fax Number	
Point of Contact		Title	
Email Address	Phone Number	Extension	

How many hours did your company dedicate to the completion of this survey?	Number of Hours

Place a  here if you would like a copy of the completed NASA Supply Chain Network industrial base assessment.

**Comments (optional)**

Instructions: In the space below, provide any additional comments or any other information you wish to include regarding your participation in NASA Space Shuttle contracts or other related issues that impact your procurement, production, or supply-chain activities in the U.S.

Section ? Comment: