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DEFENSE INDUSTRIAL BASE ASSESSMENT: U.S. Space Industry 'Deep Dive'



SCOPE OF ASSESSMENT

The U.S. Department of Commerce, Bureau of Industry and Security (BIS), Office of Technology Evaluation (OTE), in coordination with the U.S. Air Force, the National Aeronautics and Space Administration (NASA), and the National Reconnaissance Office (NRO), is conducting a defense industrial base survey and assessment of the U.S. space industry. Your organization has been identified as a direct and/or indirect supplier of products and/or services to the U.S. Government for space-related applications.

The principal goal of this effort is to assess the health of the U.S. space industrial base in order to identify cost, schedule, and technical risks that may exist within the industrial base that could impact the lifecycle of current or future programs. The data will also be used to understand the multi-tier structure of the U.S. space industry, its interdependencies, and the commonality of suppliers and products across programs and agencies. Through the data collected in this survey, agencies will be better informed to develop targeted planning, acquisition, and investment strategies to ensure the ability of the industry to support critical defense and civil missions and programs. Traditionally, the U.S. Government has had limited visibility into the issues and challenges facing the lower tiers of the space industrial base.

This survey is designed to provide an opportunity for organizations of all sizes and business types to help the U.S. Government and industry better understand the unique issues that organizations face on a daily basis to remain competitive domestically and internationally. Moreover, this survey can be utilized to highlight your organization's unique skills and capabilities. This information will not only allow for better planning by agencies, but it will also inform areas where government resources may be utilized, beneficial information may be distributed, and policy/regulatory changes may be recommended.

RESPONSE TO THIS SURVEY IS REQUIRED BY LAW

A response to this survey is required by law (50 U.S.C. app. Sec. 2155). Failure to respond can result in a maximum fine of \$10,000, imprisonment of up to one year, or both. Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C App. Sec. 2155). Section 705 prohibits the publication or disclosure of this information unless the President determines that its withholding is contrary to the national defense. Information will not be shared with any non-government entity, other than in aggregate form. The information will be protected pursuant to the appropriate exemptions from disclosure under the Freedom of Information Act (FOIA), should it be the subject of a FOIA request.

Not withstanding any other provision of law, no person is required to respond to nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number.

BURDEN ESTIMATE AND REQUEST FOR COMMENT

Public reporting burden for this collection of information is estimated to average 14 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to BIS Information Collection Officer, Room 6883, Bureau of Industry and Security, U.S. Department of Commerce, Washington, D.C. 20230, and to the Office of Management and Budget, Paperwork Reduction Project (OMB Control No. 0694-0119), Washington, D.C. 20503.

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

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| Sec | tion I GENERAL INSTRUCTIONS |
|-----|--|
| A. | Your organization is required to complete this survey using an Excel template, which can be downloaded from the U.S. Department of Commerce, Bureau of Industry and Security (BIS) website. At your request, survey compliance staff will e-mail the Excel survey template directly to your organization. For your convenience, a PDF version of the survey is available on the BIS website to aid internal data collection. DO NOT submit the PDF version of your organization's response to BIS. |
| В. | Respond to every question. Surveys that are not fully completed will be returned for completion. Use comment boxes to provide any information to supplement responses provided in the survey form. Make sure to record a complete answer in the cell provided, even if the cell does not appear to expand to fit all the information. DO NOT COPY AND PASTE RESPONSES WITHIN THIS SURVEY. Survey inputs should be made manually, by typing in responses or by use of a drop-down menu. The use of copy and paste can disrupt the data collection process. If your survey response is corrupted as a result of copy and paste responses, a new survey will be sent to you for immediate completion. |
| C. | Do not disclose any classified relationships in this survey form. However, aggregated financials, employment, R&D expenditures, etc. are permitted. |
| D. | If information is not available from your organization's records in the form requested, you may furnish estimates. |
| E. | For specific questions or assistance with the Excel survey, e-mail: E-mail is the preferred method of contact. |
| F. | Upon completion, review and certification of the Excel survey, transmit the survey via e-mail attachment to |
| G. | For questions related to the overall scope of this Defense Industrial Base assessment, contact: Brad Botwin, Director, Industrial Studies Office of Technology Evaluation, Room 1093 U.S. Department of Commerce 1401 Constitution Avenue, NW Washington, DC 20230 (202) 482-4060 DO NOT submit completed surveys to Brad Botwin's postal or personal e-mail address; all surveys must be submitted electronically to |
| | BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act |

| | Definitions |
|---|--|
| Term | Definition |
| Authorizing Official | Executive officer of the organization or business unit or other individual who has the authority to execute this survey on behalf of the firm. |
| Commercial and Government Entity (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 a standardized method of identifying a given facility at a specific location. Find CAGE codes at http://www.logisticsinformationservice.dla.mil/BINCS/begin_search.aspx |
| Component | Any raw material, substance, piece, part, software, firmware, labeling, or assembly which is intended to be included as part of the finished, packaged, and labeled device. |
| Customer | An entity to which an organization directly delivers the product or service that the facility produces. A customer may be another company or another facility owned by the same parent organization. The customer may be the end user for the item but often will be an intermediate link in the supply chain, adding additional value before transferring the item to yet another customer. |
| Data Universal Numbering System (DUNS) | A nine-digit numbering system that uniquely identifies an individual businesses. Find DUNS numbers at http://fedgov.dnb.com/webform. |
| Finished Product | Any device, or accessory to any device, that is suitable for use or capable of functioning, whether or not it is packaged or labeled. |
| Full Time Equivalent (FTE) Employees | Employees who work for 40 hours in a normal work week. Convert part-time employees into "full-time equivalents" by taking their work hours as a fraction of 40 hours. |
| IR&D | Independent research and development means the cost of effort which is neither sponsored by a grant, nor required in the performance of a contract, and which falls within any of the following three areas: (i) Basic and applied research; (ii) Development, and (iii) Systems and other concept formulation studies. |
| Manufacturing Material | Any material or substance used in or used to facilitate the manufacturing process, a concomitant constituent, or a byproduct constituent produced during the manufacturing process, which is present in or on the finished device/product. |
| North American Industry Classification System (NAICS) Code | North American Industry Classification System (NAICS) codes identify the category of product(s) or service(s) provided by your organization. Find NAICS codes at http://www.census.gov/epcd/www/naics.html |
| Precious Metals | Metals that have high economic value due to their rarity. Most commonly gold, silver, platinum, and palladium. |
| Product or Service Code (PSC) | Product or Service Code used to report government procurement transactions. To find a PSC, visit http://www.fpdsng.com/downloads/service_product_codes.pdf |
| Rare Earth Element | Rare Earth Element is a category that includes numbers 57-71 of the periodic table (lanthanum, cerium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, and ytterbium) as well as yttrium (39) and scandium (21). |
| Service | An intangible product (contrasted to a good, which is a tangible product). Services typically cannot be stored or transported, are instantly perishable, and come into existence at the time they are bought and consumed. |
| Single Source | An organization that is designated as the only accepted source for the supply of parts, components, materials, or services, even though other sources with equivalent technical know-how and production capability may exist. |
| Sole Source | A organization that is the only source for the supply of parts, components, materials, or services. No alternative domestic or foreign suppliers exist other than the current supplier. |
| STEM | STEM stands for Science, Technology, Engineering and Mathematics. |
| Supplier | An entity from which your organization obtains inputs. A supplier may be another firm with which you have a contractual relationship, or it may be another facility owned by the same parent organization. The inputs may be goods or services. |
| 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. |
| Utilization Rate | The fraction of an organization's potential output that is actually being used in current production, where potential output is based on a 7 day-a-week, 3x8-hour shift production schedule. |

Space-Industry-Deep-Dive-OMB-0694-0119-Survey

Section III

Response Obligations

Your organization has been identified as a direct or indirect supplier of products and/or services used for space-related activities by the United States Government.

For the purposes of this survey, a product is a tangible good. A service is an intangible item or process, which includes, but is not limited to, distribution, inspection, maintenance, managment, material preparation, design, research and development, testing, etc.

| A. Is your organization a: | Commercial company/U.S. Government organization/University/Non-profit organization |
|---|--|
| All organizations have received a letter from the U.S. Department of Commerce, Bureau of Indust and Security requesting their participation in this survey. Some organizations have recieved an addendum to this letter that contains a list of locations that may be conducting space-related activities. Please acknowledge that your organization has: | |
| a) Received this letter with a list of locations that may be conducting space-related activities from U.S. Department of Commerce, Bureau of Industry and Security. AND | the Acknowledged/Not Acknowledged |
| b) Reviewed this list to ensure that all space-related activities at these locations, if relevant, are accounted for in this survey response or series of survey responses. | |
| If your organization: | |
| a) had over \$200 million in net sales in 2011; and | |
| b) conducts its operations that could have space-related applications in more than one business unit/division, | Whole Organization or |
| then you must provide separate survey responses for each relevant business unit/division. the box to the right, indicate whether this survey represents a response for your whole organizatio an individual business unit/division. | |
| Note: The entire survey document should be completed at the same level, as indicated by this question. | |
| BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Pro | duction Act |

| Sec | tion 1.a | Organization Infor | mation | | |
|-----|---|----------------------------|-------------------------------------|------------------------------------|--------------------------|
| | Provide the following information for the level a | | | ole company/corporate, business | unit/division, facility) |
| | Respondent Name | | | | |
| | Business Unit/Division Name (if applicable) | | | | |
| | Respondent Street Address | | | | |
| Α. | Respondent City | | | | |
| | Respondent State | | | | |
| | Respondent Zip Code | | | | |
| | Respondent Website | | | | |
| | Respondent Phone Number | | | | |
| | Primary DUNS Code for this Level | | | | |
| | Provide the following information for the level i | mmediately above the leve | el at which your organization is re | esponding. If your organization is | responding at the |
| | whole company/corporate level, as indicated in | | | | |
| | Organization Name | | | | |
| | Organization Level: | | | | |
| _ | Street Address | | | | |
| В. | City | | | | |
| | State | | | | |
| | Country | | | | |
| | Postal Code | | | | |
| | Primary DUNS Code for this Level | | | | |
| | Provide the following information for your pare | nt company, if applicable. | If your parent company has alre | ady been identified in A or B abov | ve, leave the |
| | following section blank. | | | | |
| | Organization Name | | | | |
| | Street Address | | | | |
| C. | City | | | | |
| | State | | | | |
| | Country | | | | |
| | Postal Code | | | | |
| | Primary DUNS Code for Parent Company | | | | |
| D. | My organization is publicly traded/privately hele | :: | | | |
| | Point of Contact regarding this survey: | | | | |
| Ε. | Name | Title | Phone Number | E-mail Address | State |
| | | | | | |
| | Comments | | | | |
| | | - | | | |
| | BUSINESS | SCONFIDENTIAL - Per S | ection 705(d) of the Defense P | Production Act | |

| Sec | | Organization Information | | | | | |
|-----|---|---------------------------------------|------------------------------|----------------------|--------------------|--|--|
| | Please provide the following identification cod | des (see definitions), as a | applicable, to your organiza | ation. | | | |
| | | | | | | | |
| | Find your organization's Commercial and Government Entity (CAGE) Codes at | | | | | | |
| | http://www.logisticsinformationservice.dla.mil | | | | | | |
| | **Find your organization's North American Inc | dustry Classification Syst | em (NAICS) codes at http: | ://www.census.gov/e | pcd/www/naics.html | | |
| | | | | | | | |
| | | | | | | | |
| Α. | | | | | | | |
| | | | | | | | |
| | Commercial and | | | | | | |
| | Government Entity | NAICS (6-digit) | | | | | |
| | (CAGE) Code(s)* | Code(s)** | | | | | |
| | (0.12_) 2000(0) | | | | | | |
| | | _ | | | | | |
| | | _ | | | | | |
| | Identify the certifications that your organization | n ourrontly has or is world | ving toward bolow: | | | | |
| | AMS (specify) | Yes | ISO 14000 | | | | |
| | ANSI/ASQC Z1.4 | No | ISO TS16948 | | | | |
| | ANSI/ESD S20.20 | Working Toward | J-STD-001DS | | | | |
| | ANSI/ISO/IEC 17025 | g · c · · · · · | MIL-Q-9858 | | | | |
| | AS 9100 | | MIL-STD-45662 A | | | | |
| | DoD 5000 | | NADCAP (specify) | | | | |
| В. | ISO 28000 | | NCLS (specify) | | | | |
| | ISO 9000 | | SAE AS9003 | | | | |
| | ISO 9001 | | SAE AS9100 | | | | |
| | ISO 10012-1 | | Other (specify) | | | | |
| | * AMS (Aerospace Material Specifications) | | Aerospace and Defense | Contractors Accredit | ation Program) | | |
| | * ANSI (American National Standards Institut | | linical Lab Specialist) | | | | |
| | * ASQ (American Society for Quality) | · · · · · · · · · · · · · · · · · · · | onal, formerly the Society | of Automotive Engine | eers) | | |
| | * ISO (International organization for Standard | S) | | | | | |
| | Comments: | | | | | | |
| | | | | | | | |
| | | FNTIAL - Per Section 7 | 05(d) of the Defense Pro | duction Act | | | |
| | | | ostal of the Defense FIO | | | | |

| Section 1.c | Organization Information (cont.) | and how in an P | | | | | |
|--|--|-----------------|---|--|--|--|--|
| | From the list below, select all applicable business lines your organization currently provides. Select one business line as your "primary business line." | | | | | | |
| | Identify all other business lines your organization currently provides as "additional business lines." | | | | | | |
| Distribution/brokerage/reseller/retail | | | Primary Business Line Additional Business Line | | | | |
| Inspection and quality control | | | | | | | |
| | Integration (product, systems integration) | | | | | | |
| | Information technology (software, hardware, installation) | | | | | | |
| Maintenance/aftermarket/repair/refurbis | hing services | | | | | | |
| Manufacturing (including assembly) | | | | | | | |
| A. Manufacturing systems development an | | | | | | | |
| Material finishing (machining, coating, p | | | | | | | |
| Material preparation (casting, forming, n | | | | | | | |
| Product and design engineering (tooling | | | | | | | |
| Professional services (legal, accounting | , consulting, etc.) | | | | | | |
| Research and development | | | | | | | |
| Raw materials provider | | | | | | | |
| | Testing/evaluation/validation | | | | | | |
| Provider of services not specified elsew | | | | | | | |
| | Type of Business | Yes/No | NAICS Code(s) | | | | |
| | A small business enterprise (as defined by the Small | | | | | | |
| | Business Administration) | | | | | | |
| | 8(a) Firm (as defined by the Small Business | | | | | | |
| | Administration) | | | | | | |
| Indicate if your organization qualifies as | A historically underutilized business zone (HUBZone) | | | | | | |
| B. any of the following types of businesses | | | | | | | |
| D. If "Yes," identify the NAICS code(s) under which you qualify. | A minority-owned business | | | | | | |
| | A woman-owned business | | | | | | |
| | A veteran-owned or service-disabled veteran owned business | | | | | | |
| | Other Type of Small or Disadvantaged Business (specify) | | | | | | |
| Commonto | | · · · · · · | | | | | |
| Comments | | | | | | | |
| BUSIN | ESS CONFIDENTIAL - Per Section 705(d) of the Defense | Production Act | | | | | |

| organizat | ion's name(s) and location, the year th | | | | if applicable. Record the merged/acquired |
|---|---|----------------------------------|---------|---------------------------|---|
| | Organization Name | Type of Activity | State | Year | Primary Objective |
| 1. | | Merger | | | |
| . 2. | | Acquisition | | | |
| 3. | | Divestiture | | | |
| 4. | | | | | |
| 5. | | | | | |
| | | | | | date, if applicable. Record the merged/acquir |
| organizati | ion's name(s) and location, the year th | | | , <u> </u> | |
| | Organization Name | Type of Activity | Country | Year | Primary Objective |
| . 2. | | Merger Acquisition | | | |
| 3. | | Divestiture | | | |
| 4. | | Divestiture | | | |
| | | | | | |
| 5. | | | | | |
| Identify yo involved, | | | | | Provide the name of the organization/entity patent licensing, co-production, product |
| Identify yo involved, integration | indicate whether it is a U.S. or non-U.S. | | | t venture's purpose (e.g. | |
| Identify you involved, integration Or 1. | indicate whether it is a U.S. or non-U.s n, after-market support, etc.). | S. enterprise, and provide a des | | t venture's purpose (e.g. | patent licensing, co-production, product |
| Identify you involved, integration Or 1. | indicate whether it is a U.S. or non-U.s n, after-market support, etc.). | S. enterprise, and provide a des | | t venture's purpose (e.g. | patent licensing, co-production, product |
| Identify yc involved, integration 0r 1. 2. 3. | indicate whether it is a U.S. or non-U.s n, after-market support, etc.). | S. enterprise, and provide a des | | t venture's purpose (e.g. | patent licensing, co-production, product |
| Identify yc involved, integration Or 1. 2. 3. 4. | indicate whether it is a U.S. or non-U.s n, after-market support, etc.). | S. enterprise, and provide a des | | t venture's purpose (e.g. | patent licensing, co-production, product |
| Identify yc involved, integration 0r 1. 2. 3. | indicate whether it is a U.S. or non-U.s n, after-market support, etc.). | S. enterprise, and provide a des | | t venture's purpose (e.g. | patent licensing, co-production, product |
| Identify yc involved, integration Or 2. 1. 2. 3. 4. | indicate whether it is a U.S. or non-U.s n, after-market support, etc.). | S. enterprise, and provide a des | | t venture's purpose (e.g. | patent licensing, co-production, pro |

Section 3.a

Space-Related Product and Service Segments

Your organization will be asked to identify the products and services it manufactures, distributes, and/or provides. For the purpose of this survey, space-related products and services have been divided into 16 general segments, as detailed below. You may skip to the section with the products/services that pertain to your organization, but be sure to review all segments to ensure you do not omit any required information.

Please note that your organization may be indirectly supporting space-related applications even though you may not consider your products and/or services directly space-related. In these circumstances, you must still identify the products and services that you manufacture, distribute, and/or provide in the subsequent section.

Also, products that your organization manufactures in order to integrate into other items (that you do not sell separately to external customers) **should be identified** in the appropriate section. This indicates your organization's capability to manufacture particular products.

If your organization's specific product/service is not listed in our survey, please provide it in the 'Other' boxes provided in the product segment that it most appropriately falls under.

| U | |
|----------|--|
| A | Spacecraft & Launch Vehicles |
| В | Propulsion Systems & Fuels |
| С | Navigation & Control |
| D | Communications Systems |
| E | Space Shielding, Environmental Control/Monitoring, and Life Support |
| F | Payload Instruments & Measurement Tools |
| G | Ground Systems |
| Н | Non-Earth Based Surface Systems |
| 1 | Power Sources & Energy Storage |
| J | Electronic Equipment |
| К | Computer Hardware & Robotics |
| L | Software |
| М | Materials, Structures, and Mechanical Systems |
| N | Manufacturing Tools & Specialty Equipment |
| 0 | Services |
| Р | Research & Development |
| | BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act |

Section s.b Products and Services Identify any of the products or services your organization manufactures, distributes, or provides below. For each product/service area selected, provide a brief description of the specific items your organization manufactures, distributes, or provides. Indicate whether your or organization, to the best of your knowledge, is the sole manufacturer/distributor/provide of any specific items in each product/service area. If so, describe them in the appropriate box.

| Product Area | Manufacture/ Distribute? | A: Spacecraft & Launch V Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s |
|--|--|--|------------------------------------|---|
| 1 Atmospheric probes | Distribute | | Distributor | |
| 2 Atmospheric balloon packages | | | | |
| 3 Communications satellites | | | | |
| 4 Flyby spacecraft | | | | |
| 5 Manned spacecraft | | | | |
| 6 Meteorological satellites 7 Navigation satellites | | | | |
| 8 Orbiter spacecraft | | | | |
| 9 Satellite or spacecraft buses | | | | |
| Scientific satellites (excluding | | | | |
| meteorological) | | | | |
| 11 Surface penetrators | | | | |
| 12 Surface rovers | | | | |
| 13 Small launch vehicles (<2,000 | | | | |
| kg payload) Medium launch vehicles (2,000 - | | | | |
| 14 20,000 kg payload) | | | | |
| Line of the second second second second | | | | |
| 15 50,000 kg payload) | | | | |
| Cuper heeve leve eh vehieles | | | | |
| 16 (50,000 kg+ payload) | | | | |
| Other spacecraft/launch | | | | |
| vehicles | | B: Propulsion Systems & | Fuels | |
| Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s |
| 1 Chambers | Distribute: | | Distributor : | |
| | | | | |
| and their components | | | | |
| Cold gas propulsion systems | | | | |
| and their components | | | | |
| 4 Cyro fuel transfer systems and | | | | |
| management | | | | |
| Hybrid rocket motors, engines, | | | | |
| 5 and their components (including | | | | |
| HTPB-based systems) | | | | |
| 6 Igniters , Ion propulsion systems and their | | | | |
| 7 components | | | | |
| I found does a local section of a section of | | | | |
| 8 and their components | | | | |
| Non-Toxic Monopropellant | | | | |
| 9 propulsion systems and their | | | | |
| components | | | | |
| 10 Nozzles | | | | |
| Nuclear electric propulsion | | | | |
| | | | | |
| 12 Other space-related propulsion | | | | |
| systems | <u> </u> | | | |
| 13 Propellant tanks | ⊢ | | - | |
| 14 Propulsion operating systems | <u> </u> | | | |
| 15 Solar electric propulsion systems and their components | 1 | | | |
| Solid rocket motors, engines, | ⊢ | | | |
| 16 and their components | 1 | | | |
| Thormal electric propulsion | | | | |
| 17 systems and their components | 1 | | | |
| 18 Thrusters not specified above | <u>⊢ </u> | | 1 | 1 |
| 19 Cutting, lubricating, and | rt- | | | |
| nydraulic olis and greases | 1 | | | |
| 20 Fuels oils | | | | |
| HTPB (Hydroxyl-Terminated | | | | |
| | | | 1 | |
| LO2/LCH4 (Liquid | 1 | | | |
| Oxygen/Liquid Methane) fuel | ┢────╄─ | | | |
| | 1 | | | 1 |
| LOX/LH2 (Liquid Oxygen/Liquid | | | | |
| 23 LOX/LH2 (Liquid Oxygen/Liquid Hydrogen) fuel | | | 1 | |
| 23 LOX/LH2 (Liquid Oxygen/Liquid Hydrogen) fuel Other liquid propellants and | | | | |
| 23 LOX/LH2 (Liquid Oxygen/Liquid Hydrogen) fuel Other liquid propellants and 24 fuels - petroleum-based (and | | | | |
| 23 LOX/LH2 (Liquid Oxygen/Liquid Hydrogen) fuel Other liquid propellants and 24 fuels - petroleum-based (and constituent ingredients) | | | | |
| 23 LOX/LH2 (Liquid Oxygen/Liquid Hydrogen) fuel Other liquid propellants and 24 fuels - petroleum-based (and constituent ingredients) | | | | |
| 23 LOX/LH2 (Liquid Oxygen/Liquid Hydrogen) fuel Other liquid propellants and 24 fuels - petroleum-based (and | | | | |
| 23 LOX/LH2 (Liquid Oxygen/Liquid Hydrogen) fuel Other liquid propellants and 24 fuels - petroleum-based (and constituent ingredients) 25 Solid fuels (and constituent ingredients) | | | | |

| Section 3.c | | Products and Services (cont.) | | |
|--|-----------------------------|---|------------------------------------|--|
| specific items your organization manu | ufactures, distribu | on manufactures, distributes, or provides below. tes, or provides. Indicate whether your organization in each product/service area. If so, describe the | tion, to the best of your know | |
| | | ce-related" and/or "space-qualified" products or a dicate all the products or services your organizat | | |
| | | C: Navigation & Control | | |
| Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) |
| C1 Accelerometers | | | | |
| Altitude determination and C2 control equipment and components | | | | |
| Altitude determination and | | | | |
| C3 control sensors (including altimeters) | | | | |
| C4 Earth sensors | | | | |
| C5 Gimbal systems and equipment | | | | |
| C6 GPS equipment | | | | |
| Guidance, navigation, and control equipment and | | | | |
| C8 Gyroscopes | | | | |
| C9 Inertial navigations systems | | | | |
| C10 Reaction/momentum wheels | | | | |
| C11 systems | | | | |
| C12 C12 Components | | | | |
| C13 Entry, decent, and landing systems | | | | |
| C14 Space object capturing systems | | | | |
| Other space-related navigation C15 and control equipment and | | | | |
| components | | | | |
| | Manufacture/ | D: Communications Syste | Sole Manufacturer/ | |
| Product Area D1 Antennas/antenna systems | Distribute? | Product Description(s) | Distributor? | Sole Manufactured/Distributed Product(s) |
| Communications | - | | | |
| D2 security/cryptologic equipment D3 Delay tolerant networking | | | | |
| D4 Lunar wireless network | - | | | |
| Optical communications | | | | |
| D5 systems and components (excluding fiber optic cables) | | | | |
| D6 Radar systems and components | | | | |
| D7 Relay equipment | | | | |
| D8 Routers | | | | |
| D9 Signal amplifiers | | | | |
| D10 Signal converters D11 Signal receivers and | | | | |
| transmitters | | | - | |
| D12 Star trackers D13 Sun sensors | | | | |
| D14 Transponders | - | | | |
| Other space-related | | | | |
| D15 communications equipment and components | | | | |
| Comments: | | | | |
| | | | | |

Section 3.d Products and Services (cont.) Identify any of the products or services your organization manufactures, distributes, or provides below. For each product/service area selected, provide a brief description of the specific items your organization manufactures, distributes, or provides. Indicate whether your organization, to the best of your knowledge, is the sole manufacturer/distributor/provider of any specific items in each product/service area. If so, describe them in the appropriate box.

| | E: Space Shielding, Environmetal Control/Monitoring, and Life Support | | | | | | |
|--------------|---|-----------------------------|------------------------|------------------------------------|--|--|--|
| Product Area | | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) | | |
| | Ablative armor/plating | | | | | | |
| | Biocides | | | | | | |
| E3 | Bonding systems | | | | | | |
| E4 | CO2 and H20 removal and recovery systems | | | | | | |
| E5 | Cooling systems | | | | | | |
| E6 | Cryogenics/cryo-coolers | | | | | | |
| E7 | Damage protection systems | | | | | | |
| | Environmental monitoring and | | | | | | |
| | Heat shields | | | | | | |
| | Heaters and radiators | | | | | | |
| E11 | Hygiene and waste removal and recovery systems | | | | | | |
| E12 | Insulation | | | | | | |
| E13 | Oxygen supplies | | | | | | |
| E14 | Oxygen supply systems | | | | | | |
| | Pressure control equipment | | | | | | |
| E16 | Radiation shielding systems | | | | | | |
| | Space safety/abort systems (destruct receivers, escape systems, etc.) | | | | | | |
| E18 | Space suits and related equipment | | | | | | |
| E19 | Spacecraft airlocks | | | | | | |
| E20 | Other space survivability systems or components | | | | | | |

| | Marchart | F: Payload Instruments & Meas | | |
|--|-----------------------------|-------------------------------|------------------------------------|---|
| Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s |
| 1 Atomic clocks | | | | |
| 2 Bulk plasma | | | | |
| 3 Chemical analysis instruments | | | | |
| 4 Cosmic ray sensors (1 MeV) | | | | |
| 5 Electric field sensors | | | | |
| Electrical and electical properties | | | | |
| 6 testing and measurement | | | | |
| instruments | | | | |
| 7 Energetic neutral imaging | | | | |
| 8 Environmental chambers and | | | | |
| related measuring equipment | | | | |
| 9 Filtered photometers | | | | |
| 10 Gas chromatograph | | | | |
| 11 Geophysical instruments | | | | |
| 12 Heavy atom detectors | | | | |
| High energy particle sensors (30 KeV - 2 MeV) | | | | |
| 14 Hyper-spectral detectors | | | | |
| 14 Hyper-spectral detectors 15 Infrared detectors | | | | |
| 16 Large format focal plane arrays | | | | |
| Large format focal plane arrays | | | | |
| 17 Low energy particle sensors (100 eV) | | | | |
| | | | | |
| 18 Low noise high frame rate 19 LWIR detectors | | | | |
| 19 LWIR detectors | | | | |
| 20 Magnetic field sensors and | | | | |
| magnetometers | | | | |
| 21 Meterological instruments and apparatus | | | | |
| | | | | |
| 22 Microwave detectors | | | | |
| 23 Miscellaneous laboratory | | | | |
| equipment and supplies | | | | |
| 24 Multi-spectral detectors | | | | |
| 25 MWIR detectors 26 Near-IR invisbile detectors | | | | |
| | | | | |
| 27 Nuclear detectors | | | | |
| 28 Physical properties testing and inspection equipment | | | | |
| | | | | |
| 29 Radiometers | | | | |
| 30 Single proton detectors | | | | |
| 31 Spectrometers | | | | |
| 32 SWIR detectors | | | | |
| 33 Synthetic apperature radar systems | | | | |
| systems | | | | |
| 34 Telescopes | | | | |
| 35 Visible detectors | | | | |
| 36 X-ray optics | | | | |
| 37 Other space-related instruments | | | | |
| or sensors | | | | 1 |
| Comments: | | | | |

| | | tted" and/or "space-qualified" products o all the products or services your organiz | | ou do not know if your products or services are or provides from the lists in this section. |
|--|-----------------------------|--|------------------------------------|--|
| | Manufacture/ | G: Ground System | s Sole Manufacturer/ | |
| Product Area | Distribute? | Product Description(s) | Distributor? | Sole Manufactured/Distributed Product(s) |
| G1 Ground antennas | | | | |
| Ground-based communications equipment (terminals, relays, etc) | | | | |
| G3 Ground tracking and control equipment | | | | |
| G4 Simulation and/or training machines | | | | |
| G5 Other space-related ground systems | | | | |
| 10,000110 | | H: Non-Earth Based Surfac | e Systems | |
| Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) |
| H1 Regolith excavation and handling | | | | |
| H2 Oxygen and water extraction from regolith | | | | |
| H3 Lunar excavation H4 Mineral mapping systems | | | | |
| H5 Volatile (H, C, N, He) extraction from regolith | | | | |
| H6 Surface habitation systems and equipment | | | | |
| H7 Dust management systems (mitigation and removal) | | | | |
| H8 Dust tolerant connectors Other non-Earth based surface | | | | |
| H9 systems and equipment | | | | |
| | | I: Power Sources & Energy | | 1 |
| Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) |
| Batteries (lithium ion, nickel I1 hydrogen, nickel cadmium, silver zinc, etc.) | | | | |
| I2 Electrical converters | | | | |
| I3 Fuel cell power units and components | | | | |
| I4 Generators | | | | |
| I5 Other energy storage devices I6 Nuclear fission power systems | | | | |
| I7 Radioisotope thermoelectric generators | | | | |
| Radioactive materials for use in power generation | | | | |
| I9 Solar electrical power systems, equipment, and components | | | | |
| I10 Transformers I11 Wires and cables (electrical) | ├ ─── ├ ── | | | |
| Other space-related power 112 sources/energy storage systems | | | | |
| | | | | |

Section 3.1 Products and Services (cont.) Identify any of the products or services your organization manufactures, distributes, or provides below. For each product/service area selected, provide a brief description of the specific items your organization manufactures, distributes, or provides. Indicate whether your organization, to the best of your knowledge, is the sole manufacturer/distributor/provider of any specific items in each product/service area. If so, describe them in the appropriate box.

| | | | J: Electronic Equipment | | |
|------------|--|-----------------------------|--|------------------------------------|--|
| | Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) |
| .J1 | Application-specific integrated | Distribute? | | Distributor | |
| 31 | circuits (ASICs) | | | | |
| J2 | Attenuators Capacitors | | | | |
| J4 | Circuit boards | | | | |
| J5 | Circuit breakers Coils and transformers | | | | |
| J7 | Connectors | | | | |
| J8 | Diodes | | | | |
| J9 | Electrical insulators Electron tubes | | | | |
| | Fiber optics (conductors, cables, switches, assemblies, etc.) | | | | |
| | Field programmable gate arrays | | | | |
| J13 | Filters and networks | | | | |
| J14 | Fuses, arrestors, absorbers, and | | | | |
| | protectors Inductors | | | | |
| J16 | Integrated circuits/semiconductors | | | | |
| 14.7 | (excluding ASICs) | | | | |
| J1/ | Lasers and laser systems Lugs, terminals, and terminal | | | | |
| | | | | | |
| J19 J20 | Memory Modulators/demodulators | ├ ── | | | |
| 121 | Non-volatile memory | | | | |
| J22 | Optoelectronic devices and associated equipment | | | | |
| J23 | Oscillators and piezoelectric crystals | | | | |
| J24 | Radiation hardened/tolerant | | | | |
| | electronics Relays and solenoids | | | | |
| J26 | Resistors | | | | |
| J27 | Signal/function generators (radio frequency, microwave, etc.) | | | | |
| J28 | frequency, video, etc.) | | | | |
| J29 | Synchros and resolvers | | | | |
| | Transistors Traveling wave tubes | | | | |
| J32 | Other space-related electronic equipment | | | | |
| | Product Area | Manufacture/ Distribute? | K: Computer Hardware & Rob Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) |
| K1 | Data handling and input/output storage devices | | | | |
| K2 | Computers and data processing equipment | | | | |
| K4 | Data terminal equipment Displays/monitors | | | | |
| K5 | Fault tolerant computing | | | | |
| K6 | High performance super computers | | | | |
| K7 | Robotics and autonomous | | | | |
| | systems High dexterity manipulation | | | | |
| К9 | Systems Other computer hardware and | | | | |
| | robotic systems | | L: Software | | |
| | Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) |
| L1 L2 | Communications software Data mining and knowledge management software | | | | |
| L3 | Environmental control and monitoring software | | | | |
| L4 | Ground system software | | | | |
| L5 | Mission automation and | | | | |
| | execution software Mission planning software | | | | |
| L7 | Modeling, analysis, and visualization software | | | | |
| L8 | Navigation and control software | | | | |
| | Payload instrument software | | | | |
| | Description contains an easting | | | | |
| LIU | Propulsion system operating software | | | | |
| L11 | Propulsion system operating software Simulation software | | | | |
| L11 | Propulsion system operating software Simulation software Other space-related software | | | | |
| L11 | Propulsion system operating software Simulation software | | | | |

Section 3.g

Products and Services (cont.)

Identify any of the products or services your organization manufactures, distributes, or provides below. For each product/service area selected, provide a brief description of the specific items your organization manufactures, distributes, or provides. Indicate whether your organization, to the best of your knowledge, is the sole manufacturer/distributor/provider of any specific items in each product/service area. If so, describe them in the appropriate box.

| Product Area | M: Materials Manufacture/ | Product Description(s) | Sole Manufacturer/ | Sole Manufactured/Distributed Product(s) |
|---|------------------------------|------------------------|--------------------|--|
| Poro and rada (apositiv materials | Distribute? | r rouger beschpion(s) | Distributor? | |
| MI to the right) | | | | |
| M2 Plates, sheets, etc. (specify | | | | |
| | | | | |
| M3 Pipes and tubes (specify materials to the right) | | | | |
| Device a state (see all) | 1 1 | | | |
| W14 motorials to the right) | | | | |
| M5 Rare Earth Elements (specify | | | | |
| Materials to the right) M6 Carbon fiber materials | | | | |
| M7 Other fiber based materials (including rayon, nylon, etc.) | | | | |
| M8 Composite materials | | | | |
| M9 Dust resistant coatings | | | | |
| M10 Optical coatings M11 Protective coatings | | | | |
| M12 Thermal coatings | | | | |
| M13 Other types of coatings | | | | |
| M14 Adhesives | | | | |
| M15 Chemicals | \vdash | | | |
| M16 Gases and pressurants (N, He, etc.) M17 Inks | | | | |
| M18 Resins | | | | |
| M19 Sealants | | | | |
| M20 Solvents | | | | |
| M21 Substrates | | | | |
| M22 Struts M23 Fairings and skirts | | | | |
| M24 Spacecraft panels | | | | |
| M25 Cover glass | | | | |
| M26 Spacecraft windows or window materials | | | | |
| M27 Beryllium-based structures | | | | |
| M28 Carbon fiber-based structures M29 Composite-based structures | | | | |
| M30 Other lightweight material-based structures | | | | |
| Glass fabricated structures not specified elsewhere (glass | | | | |
| laminants nanostructures etc.) | | | | |
| M32 Plastic fabricated structures not specified elsewhere (plastic | | | | |
| | | | | |
| M33 Rubber fabricated structures not specified elsewhere (moldings, foam, etc.) | | | | |
| M34 Structures created through additive manufacturing processes | | | | |
| M35 Bearings | | | | |
| M36 Castings | | | | |
| M37 Compressors and vacuum pumps | | | | |
| M38 Couplings, connectors, and fittings M39 Dampers | | | | |
| M40 Fasteners (screws, nuts, bolts, clips, brackets, rivets, etc.) | | | | |
| M41 Forgings | | | | |
| M42 Gaskets (o-rings, washers, etc.) | | | | |
| M43 Gears and gear boxes | | | | |
| M44 Hydraulics, valves, actuators, pumps M45 Landing gear or systems | | | | |
| M45 Landing gear or systems M46 Magnets | | | | |
| M47 Mirrors | | | | |
| M48 Precision machined parts | | | | |
| M49 Pyrotechnics, cartridge and propellant actuated devices | <u> </u> | | | |
| M50 Semi-finished machined parts M51 Specialty storage devices or containers | H | | | |
| MS1 Specially storage devices of containers MS2 Springs and wire forms | | | | |
| M53 Wire and cables (non-electrical) | | | | |
| M54 Other materials, structures, or mechanical systems | | | | |
| Comments: | | | | |
| | | | | |

Section 3.h

Products and Services (cont.)

Identify any of the products or services your organization manufactures, distributes, or provides below. For each product/service area selected, provide a brief description of the specific items your organization manufactures, distributes, or provides. Indicate whether your organization, to the best of your knowledge, is the sole manufacturer/distributor/provider of any specific items in each product/service area. If so, describe them in the appropriate box.

| | | N: Manufacturing Tools & Spec | | |
|---|-----------------------------|-------------------------------|------------------------------------|--|
| Product Area | Manufacture/ Distribute? | Product Description(s) | Sole Manufacturer/ Distributor? | Sole Manufactured/Distributed Product(s) |
| N1 Bending and forming machines | | | | |
| N2 Boring, broaching, drilling, and tapping machines | | | | |
| N3 Chemical production machinery | | | | |
| N4 Clean work stations, controlled | | | | |
| N5 Computer Numerical Control (CNC) systems | | | | |
| N6 Electrical and ultrasonic erosion machines | | | | |
| N7 Filament winding machines | | | | |
| N8 Forging machinery | | | | |
| N9 Foundry machinery | | | | |
| Gear cutting and finishing machines | | | | |
| 111 Grinding machines | | | | |
| Hydraulic, pneumatic, and mechanical presses | | | | |
| 13 Lathes | | | | |
| Lubrication and fuel dispensing | | | | |
| 115 Machine tools | | | | |
| Metal heat treating and non- thermal treating equipment | | | | |
| 117 Milling machines | | | | |
| Rocket maintenance, repair, 118 and checkout specialized equipment | | | | |
| 19 Rolling and drawing machines | | | | |
| Semiconductor, microcircuit, 120 and printed circuitboard manufacturing machinery | | | | |
| Space vehicle maintenance, I21 repair, and checkout specialized equipment | | | | |
| 122 Tooling kits and equipment | | | | |
| Welding, soldering, riveting and brazing equipment | | | | |
| Wire and ribbon forming machines | | | | |
| Other machinery utilized for I25 space-related | | | | |
| manufacturing/servicing | | | | |
| Comments: | | | | |

Section 3.i

Products and Services (cont.)

Identify any of the products or services your organization manufactures, distributes, or provides below. For each product/service area selected, provide a brief description of the specific items your organization manufactures, distributes, or provides. Indicate whether your organization, to the best of your knowledge, is the sole manufacturer/distributor/provider of any specific items in each product/service area. If so, describe them in the appropriate box.

| | | | O: Services | | |
|-----|--|---------------------|------------------------|----------------|--------------------------|
| | Service Area | Provide Service? | Service Description(s) | Sole Provider? | Sole Service(s) Provided |
| | Analysis, fusion, or visualization of data derived from space (including electro-optical imagery, data from satellite sensors, etc.) | | | | |
| 02 | Calibration of space-related equipment | | | | |
| | Coating services | | | | |
| O4 | Commercial satellite operation | | | | |
| O5 | Communications and broadcast services | | | | |
| | Data storage and handling services | | | | |
| 07 | Encryption and secure communication services | | | | |
| 08 | Friction stir welding and spun form domes | | | | |
| 09 | Ground support and operations services | | | | |
| 010 | Heat treatment services | | | | |
| | Information and software assurance (including verification and validation) | | | | |
| | Launch support services | | | | |
| O13 | Logistics services | | | | |
| - | Machining services (includes cutting, boring, grinding, etc.) | | | | |
| | Maintenance, repair, and rebuilding services | | | | |
| | Materials testing | | | | |
| | Plating services | | | | |
| O18 | Priming and painting services | | | | |
| 019 | Product assurance, quality control services | | | | |
| O20 | Professional services | | | | |
| | Program management and support services | | | | |
| | Program review/development services | | | | |
| O23 | Provision of data derived from space (including electro-optical imagery, remote sensing, etc.) | | | | |

| - | | | | |
|---|--------------|-------------------------|----|--|
| O24 Safety and mission assurance services | | | | |
| O25 Software and algorithm | | | | |
| O26 Space crew operations and training | | | | |
| O27 Space launch services | | | | |
| 028 Space medicine | | | | |
| O29 Space vehicle handling and servicing | | | | |
| O30 Space-related design and engineering services | | | | |
| O31 Specification development services | | | | |
| O32 Systems engineering | | | | |
| Testing or inspection of space- | | | | |
| O33 related equipment (includes | | | | |
| inspection, simulation, vibration | | | | |
| testing, acoustics testing, etc.) | | | | |
| O34 Other space-related services | | | | |
| | | P: Research & Developme | nt | |
| R&D Focus | Provide R&D? | R&D Description | | |
| P1 Communications and navigation | | | | |
| P2 Entry, descent, and landing systems | | | | |
| P3 Ground and launch systems processing | | | | |
| P4 Human exploration destination systems | | | | |
| P5 In-space propulsion | | | | |
| P6 Launch propulsion systems | | | | |
| P7 Materials | | | | |
| P8 Mechanical Systems | | | | |
| Modeling, simulation, | | | | |
| P9 information technology, and | | | | |
| processing | | | | |
| P10 Nanotechnology | | | | |
| P11 Payloads, science instruments, and sensor systems | | | | |
| P12 Propellants and fuels | | | | |
| P13 Robotics and autonomous systems | | | | |
| P14 Space power and energy storage | | | | |
| P15 Space survivability, life support, and habitation systems | | | | |
| P16 Structures | | | | |
| P17 Theoretical and scientific R&D | | | | |
| P18 Thermal management systems | | | | |
| P19 Other space-related research & development focus | | | | |
| Comments: | | | | |
| | I | | | |
| | | | | |

Section 4

Participation in U.S. Government Space Programs

From the list provided below, identify all the U.S. Government, space-related programs your organization has directly and/or indirectly participated in **since 2008**. Participation includes the manufacture/integration of products, distribution of products, conduct of manufacturing processes on equipment, provision of services, and/or the provision of research & development. Next, list the top five product and/or service codes your organization provides for each program you participate in. The product/service drop-down list is based on your responses to Section X. If your product or service does not appear in the drop-down, ensure that you have identified your organization as a manufacturer or provider of that product or service in Section X.

If you participate in a space-related program that is not listed below, you may enter it in the 'Other' section at the bottom. First, identify the relevant agency in the 'U.S. Government Agency' column and then identify the program name in the 'Space Program Name' column.

Not Applicable?

If your organization is not sure of its participation in any U.S. Government space-related programs and have reviewed the list below as confirmation, select "Not Applicable" from the box to the right and skip this section.

Note: For your convienence, you may utilize the built-in filters to isolate particular U.S. Government agencies or programs from the list (press the down facing arrow in the top right corner of the relevant box below).

| | U.S. Government Agency Air Force Air Force | Space Program Name | Participation | Produ | | ode Supportin | • • • | |
|----|--|---|-----------------------|-------|---|---------------|-------|---|
| | | | · | 1 | 2 | 3 | 4 | 5 |
| 1 | | ADAP-Advanced Digital Antenna Production | Prime Contractor | | | | | |
| 2 | | AEHF-Advanced Extremely High Frequency | Sub-Contractor | | | | | |
| 3 | | AEP-Architecture Evolution program | Other Type of Support | | | | | L |
| 4 | Air Force | AFCPT-Air Force Command Post Terminals | | | | | | |
| 5 | Air Force | AFSCN ESD-Air Force Satellite Control Network Electronic Schedule | | | | | | |
| 6 | Air Force | AFSCN ESD-Air Force Satellite Control Network Electronic Schedule | | | | | | |
| 7 | Air Force | AFSCN RBC-Air Force Satellite Control Network Remote Tracking Station Block | | | | | | |
| 8 | Air Force | AFSSS-Air Force Space Surveillance System | | | | | | |
| 9 | Air Force | AFWET-Air Force Wideband Enterprise Terminals | | | | | | |
| 10 | Air Force | AITG-Airborne Integrated Terminals Group | | | | | | |
| 11 | Air Force | ARS-Archival Recorder Systems | | | | | | |
| 12 | Air Force | ARTS-Automated Remote Tracking Station | | | | | | |
| 13 | Air Force | BMEWS-Ballistic Missile Early Warning System | | | | | | |
| 14 | Air Force | CCS- Counter Communications System | | | | | | |
| 15 | Air Force | CCS-C Block 1-Command and Control System | | | | | | |
| 16 | Air Force | CCS-C-Command & Control System-Consolidated | | | | | | |
| 17 | Air Force | DAGR-Defense Advanced GPS Receiver | | | | | | |
| 18 | Air Force | DMSP-Defense Meteorological Satellite Program | | | | | | |
| 19 | Air Force | DSCS-Defense Satellite communications System | | | | | | |
| 20 | Air Force | DSP-Defense Support Program | | | | | | |
| 21 | Air Force | DWSS- Defense Weather Satellite System | | | | | | |
| 22 | Air Force | EELV-Evolved Expendable Launch Vehicles | | | | | | |
| 23 | Air Force | EELV Delta IV-Evolved Expendable Launch Vehicles | | | | | | |
| 24 | Air Force | Eglin Radar | | | | | | |
| 25 | Air Force | Eglin Radar SLEP | | | | | | |
| 26 | Air Force | EPS-Enhanced Polar System | | | | | | |
| 27 | Air Force | FAB-T-Family of Advanced Beyond Line-of-Sight Terminals (Inc 1) | | | | | | |
| | A | GBS DECC Transition-Global Satellite Broadcast System Defense Enterprise | | | | | | |
| 28 | Air Force | Computing Center Transition | | | | | | 1 |
| 29 | Air Force | GBS-Global Broadcast Service | | | | | | |
| 30 | Air Force | GEODSS-Ground-Based Electro Optical Deep Space Surveillance | | | | | | |
| 31 | Air Force | Globus II | | | | | | |
| 32 | Air Force | GMT-Ground Multiband Terminals | | | | 1 | | |
| 33 | Air Force | GPS Block IIF-GPS Block IIF | | | | | | |
| 34 | Air Force | GPS Block IIR-GPS Block IIR | | | | | | |
| 35 | | GPS IIA | | | | | | |
| 36 | Air Force | GPS IIIA-GPS IIIA | | | | | | |
| 37 | Air Force | HUSIR-Haystack Ultra-Wideband Satellite Imaging Radar | | | | | | |
| 38 | Air Force | JETSS-Joint Execution and Training System for Space | | | | | | |
| 39 | Air Force | JMS-Joint Space Operations Center (JSpOC) Mission System (JMS) | | | | 1 | | |

| 40 | Air Force | LADO-Launch, Early Orbit, Anomaly, & Disposal Operations | | | | | |
|----|------------------------|---|----------|---|---|---|---|
| 40 | Air Force | LIONS-Logistics Information Operations Systems | | | | | |
| 41 | Air Force | LTRS-Launch Test Range System | | | | | 1 |
| 42 | Air Force | MAGR-2K-Miniaturized Airborne GPS Receiver 2000 | | - | | - | ł |
| 43 | Air Force | MAGK-2K-Minilatinged Aliborne GFS Receiver 2000 | | | | | |
| 44 | Air Force | MARK IVB-Meleolological Data Station MGUE-GPS User Equipment: Modernized UE | | - | | - | ł |
| 45 | Air Force | Milstar Satellites | | - | | | |
| | | Milstar/DMU II Terminals | | | | | |
| 47 | Air Force | | | | | | |
| 48 | Air Force | Miltar SMCS Satellite Mission Control Subsystem | | | | | |
| 49 | Air Force | Minotaur-SMC/SDTW Launch Vehicle | | | | | |
| 50 | Air Force | MMP-Minuteman MEECN Program | | | | | |
| 51 | Air Force | MMSOC-GSA-Multi-Mission Space Operations Center Ground Support Architecture | | | | | |
| 52 | Air Force | MOSS-Moron Optical Space Surveillance | | | | | |
| 53 | Air Force | NAVSTAR MUE | | | | | |
| 54 | Air Force | NAVSTAR GPS-Navigational Signal Timing and Ranging Global Positioning System | | | | | |
| 55 | Air Force | NDS-Nuclear Detonation Detection System | | | | | |
| 56 | Air Force | NPOESS-National Polar-orbiting Operational Environmental Satellite System | ├ | | 1 | 1 | |
| 57 | Air Force | OAS-Orbital Analysis Systems | <u> </u> | | | | |
| 58 | Air Force | OCS-GPS Operational Control Segment | | | | | |
| 59 | Air Force | OCX-Next Generation Operational Control System | <u> </u> | | 1 | | |
| 60 | Air Force | OSR-Operational Switch Replacement | | | | | |
| 61 | Air Force | PARCS-Perimeter Acquisition Radar Attack Characterization System | | | | | |
| 62 | Air Force | | | | | | |
| 63 | Air Force | PAWS-PAVE Phased Array Warning System RAIDRS-Rapid Attack Identification Detection Reporting System | | | | | |
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| 64 | Air Force Air Force | RSLP-Rocket Systems Launch Program | | | | | |
| 65 | | RSS-Receiving Set Satellite | | | | | |
| 66 | Air Force | RSTN-Radio Solar Telescope Network | | | | | |
| 67 | Air Force | S2E2-SBIRS Survivable Endurable Evolution | | | | | |
| 68 | Air Force | SBIRS Fixed Sites | | | | | |
| 69 | Air Force | SBIRS High-Space Based Infrared System | | | | | |
| 70 | Air Force | SBIRS Mobile Vehicles | | | | | |
| 71 | Air Force | SBIRS Space Segment | | | | | |
| 72 | Air Force | SBIRS-Space Based Infrared Systems | | | | | |
| 73 | Air Force | SBSS Blk10-Space Based Space Surveillance Block 10 | | | | | |
| 74 | Air Force | SCAMP-Single Channel Anti-Jam Man Portable Terminal | | | | | |
| 75 | Air Force | SMART-T-Secure mobile Anti-Jam Reliable Tactical Terminal | | | | | |
| 76 | Air Force | SOON-Solar Observing Optical Network | | | | | |
| 77 | Air Force | Space Fence | | | | | |
| 78 | Air Force | SSAEM-Space Situational Awareness Environmental Monitoring | | | | | |
| 79 | Air Force | VTS-A-Vandenberg Tracking Station-A | | | | | |
| 80 | Air Force | WGS Block I-Wideband Global SATCOM | | | | | |
| 81 | Air Force | WGS Block II-Wideband Global SATCOM | | | | | |
| 82 | Air Force | WGS Block III-Wideband Global SATCOM | | | | | |
| 83 | Army | JTAGS-Joint Tactical Ground Station | | | | | |
| 84 | NASA | 21st Century Ground Systems | | | | | |
| 85 | NASA | Active Cavity Radiometer Irradiance Monitor Satellite (ACRIMSat) | | | | | |
| 86 | NASA | Active Sensing of CO2 Emissions over Nights, Days, and Seasons (ASCENDS) | | | | | |
| 87 | NASA | Advanced Stirling Radioisotope Generator (ARSG) | ├ | | 1 | 1 | |
| 88 | NASA | AMMOS | ├ | | 1 | 1 | |
| 89 | NASA | Aqua | | | | | |
| 90 | NASA | Aquarius | | | | | |
| 90 | NASA | Aquanus Astrophysics Explorer Program - Astro-H (SXS) | ├ | | 1 | 1 | |
| 91 | NASA | Astrophysics Explorer Program - Gravity and Extreme Magnetism (GEMS) | <u> </u> | | | | |
| 92 | INAGA | Astrophysics Explorer Program - Gravity and Extreme Magnetism (GEMS) Astrophysics Explorer Program - Nuclear Spectroscopic Telescope Array | <u> </u> | | 1 | 1 | |
| 93 | NASA | (NuSTAR) | | | | | |
| 94 | NASA | Astrophysics Research Program | | | | | |
| 95 | NASA | Aura | | | | | |
| 96 | NASA | Cassini-Huygens | | | | | |

| 97 | NASA | CLARREO | | | | |
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| 98 | NASA | CloudSat | | | | |
| 99 | NASA | Commercial Crew and Cargo Program | | | | |
| 100 | NASA | Commercial Crew Development (CCDev) | | | | |
| 100 | NASA | Constellation Program | | | | |
| 101 | NASA | Cosmic Origins Program - Herschel Space Observatory | | | | |
| | NASA | | | | | |
| 103 | INASA | Cosmic Origins Program - Hubble Space Telescope | | | | |
| 104 | NASA | Cosmic Origins Program - Stratospheric Observatory For Infrared Astronomy | | | | |
| | | (SOFIA) | | | | |
| 105 | NASA | DESDynl | | | | |
| 106 | NASA | Discovery - MESSENGER | | | | |
| 107 | NASA | Earth Observing-1 (EO-1) | | | | |
| 108 | NASA | Earth Science Multi-Mission | | | | |
| 109 | NASA | Earth Science Technology | | | | |
| 110 | NASA | EPOXI (Was Deep Impact) | | | | |
| 111 | NASA | ExoMars/Trace Gas Orbiter (TGO) | | | | |
| 112 | NASA | Exoplanet Exploration Program - Kepler | | | | |
| 113 | NASA | Exoplanet Exploration Program - Large Binocular Telescope Interferometer (LBTI) | | | | |
| 114 | NASA | GALEX | | | | |
| 115 | NASA | Genesis | | | | 1 |
| 116 | NASA | Global Precipitation Measurement (GPM) | | | | |
| 117 | NASA | Glory Mission | | | | |
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| 118 | NASA | GRACE | | | | |
| 119 | NASA | GRACE FO | | | | |
| 120 | NASA | Hayabusa-U.S. (MUSES-C) | | | | |
| 121 | NASA | Heliophysics Explorer Program - AIM | | | | |
| 122 | NASA | Heliophysics Explorer Program - CINDI | | | | |
| 123 | NASA | Heliophysics Explorer Program - IBEX | | | | |
| 124 | NASA | Heliophysics Explorer Program - Interface Region Imaging Spectrograph (IRIS) | | | | |
| 125 | NASA | Heliophysics Explorer Program - THEMIS | | | | |
| 126 | NASA | Heliophysics Explorer Program - TWINS | | | | |
| 127 | NASA | Heliophysics Research | | | | |
| 128 | NASA | Ice, Cloud, and land Elevation Satellite (ICESat-II) | | | | |
| 129 | NASA | International Space Station Program | | | | |
| 130 | NASA | James Webb Space Telescope (JWST) | | | | |
| 131 | NASA | Jason-1 | | | | |
| 132 | NASA | Jason-3 | | | | |
| 133 | NASA | Kepler | | | | |
| 133 | NASA | Landsat Data Continuity Mission (LDCM) | | | | |
| 135 | NASA | Launch Services Program | | | | |
| 136 | NASA | | | | | |
| 130 | NASA | Living with a Star - Radiation Belt Storm Probes (RBSP) Living with a Star - Solar Dynamics Observatory (SDO) | | | | |
| | NASA | | | | | |
| 138 139 | NASA | Living with a Star - Solar Orbiter | | | | |
| | | Living with a Star - Solar Probe Plus | | | | |
| 140 | NASA | Lunar Crater Observation and Sensing Satellite | | | | |
| 141 | NASA | Lunar Quest Program - ASPERA-3 | | | | |
| 142 | NASA | Lunar Quest Program - Dawn | | | | ł |
| 143 | NASA | Lunar Quest Program - GRAIL | | | | |
| 144 | NASA | Lunar Quest Program - LADEE | | | + | + |
| 145 | NASA | Lunar Quest Program - Stardust NexT | | | | |
| 146 | NASA | Lunar Quest Program - Strofio | | | | |
| 147 | NASA | Mars 2018 | | | | |
| 148 | NASA | Mars Exploration - 2016 | | | | |
| 149 | NASA | Mars Exploration - MAVEN | | | | |
| 150 | NASA | Mars Exploration - MSL | | | | |
| 151 | NASA | Mars Exploration - Odyssey | | | | |
| 152 | NASA | Mars Exploration - Spirit and Opportunity | | | | |
| 153 | NASA | Mars Exploration Rover (MER) | | | | |
| 154 | NASA | Mars Global Surveyor | | | | |

| 155 | NASA | Mars Reconnaissance Orbiter | | | | 1 | |
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| 156 | NASA | Mars Science Laboratory (MSL) | | | | | |
| 157 | NASA | Mais Science Laboratory (MSL) Mulit-purpose Crew Vehicle | | | | | |
| 158 | NASA | New Frontiers - Juno | | | | 1 | |
| 159 | NASA | New Frontiers - New Horizons | | | | | |
| 160 | NASA | New Millennium | | | | 1 | |
| 161 | NASA | NPOESS Preparatory Project (NPP) | | | | | |
| 162 | NASA | NuSTAR | | | | | |
| 162 | NASA | | | | | | |
| | NASA | 000-2 | | | | | |
| 164 | NASA | OCO-2 OSTM | | | | | |
| 165 | | OSTM/Jason-2 | | | | | |
| 166 | NASA | | | | | | |
| 167 | NASA NASA | Outer Planets - Cassini | | | | | |
| 168 | | Phoenix | | | | | |
| 169 | NASA | Physics of the Cosmos (POCS) - Chandra X-ray Observatory | | | | - | |
| 170 | NASA | Physics of the Cosmos (POCS) - Fermi Gamma-ray Space Telescope | | | | - | |
| 171 | NASA | Physics of the Cosmos (POCS) - Planck | | | | - | |
| 172 | NASA | Pre-Aerosol, Clouds, and Ecosystem Mission (PACE) | | | | | |
| 173 | NASA | Prometheus | | | | | |
| 174 | NASA | Quick Scatterometer (QuikSCAT) | | | | | |
| 175 | NASA | Radioisotope Power Systems (RPS) | | | | | |
| 176 | NASA | SIM PlanetQuest | | | | | |
| 177 | NASA | SMAP | | | | | |
| 178 | NASA | Soil Moisture Active and Passive (SMAP) | | | | | |
| 179 | NASA | Solar Radiation and Climate Experiment (SORCE) | | | | | |
| 180 | NASA | Solar Terrestrial Probes - Hinode | | | | | |
| 181 | NASA | Solar Terrestrial Probes - Magnetospheric Multiscale Mission (MMS) | | | | | |
| 182 | NASA | Solar Terrestrial Probes - STEREO | | | | | |
| 183 | NASA | Space Communications and Navigation | | | | | |
| 184 | NASA | Space Launch System | | | | | |
| 185 | NASA | Space Shuttle Program | | | | | |
| 186 | NASA | Spitzer Space Telescope (SIRTF) | | | | | |
| 187 | NASA | Stratospheric Aerosol and Gas Experiment (SAGE III) on the ISS | | | | | |
| 188 | NASA | Surface Water and Ocean Topography (SWOT) | | | | | |
| 189 | NASA | Terra | | | | | |
| 190 | NASA | Transmission and Data Relay Satellite System | | | | | |
| 191 | NASA | TRMM | | | | | |
| 192 | NASA | Venture Class Missions | | | | | |
| 193 | NASA | Voyager | | | | | |
| 194 | NASA | WISE | | | | | |
| 195 | Navy | MUOS-Mobile User Objective System | | | | | |
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Section 5.a

Critical Suppliers

For each Product and Service segment (A-P), identify your organization's critical suppliers. Only identify suppliers that support products/services mentioned earlier in the survey (in Section X). Each critical supplier should be filled in the Product and Service segment of the product/service they supply - not the segment their product/service is utilized for. For example: a supplier who provides traveling wave tubes should be identified in segment E: Electronics & Computer Technology for Space.

Once you have located the appropriate segment for a supplier, identify the supplier's name, the product/service area they provide (from the drop-down menu), and a short description of the specific product/service. Next, identify the product/service area that each item supplied is utilized for (this should be one of the product/services your organization manufactures or provides). In addition, identify the city, state, and country of the supplier and whether this supplier is a single and/or sole source of the product/service in question (see definitions). Finally, identify any U.S. Government programs that each supplier and product/service is used to support by your organization, if applicable.

If a supplier provides more than one product/service area, complete the supplier information on two separate rows and alter the product/service area accordingly.

For the purposes of this survey, a supplier may be, but does not have to be, considered critical if it:

a) Is used to support multiple U.S. Government programs;

b) Is a sole and/or single source supplier;

c) Contributes a significant portion to the end product's value;

d) Provides a product/service that has a long lead-time; and/or

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Section 5.b

Critical Suppliers (cont.)

For each Product and Service segment (A-P), identify your organization's critical suppliers. Only identify suppliers that support products/services mentioned earlier in the survey (in Section X). Each critical supplier should be filled in the Product and Service segment of the product/service they supply - not the segment their product/service is utilized for. For example: a supplier who provides traveling wave tubes should be identified in segment E: Electronics & Computer Technology for Space.

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a) Is used to support multiple U.S. Government programs;

b) Is a sole and/or single source supplier;

c) Contributes a significant portion to the end product's value;

d) Provides a product/service that has a long lead-time; and/or

| | Product Area Provided by | | Product Area Supplied | g, Enviornmental C | Supplier State | | Single/Sole | 110 | 6. Government Program Suppo | orted |
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| | | | E: P | ayload Instruments | & Measurement T | ools | | | | |
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| Supplier Name | | Product Description | Floduct Area Supplied | Supplier City | (if applicable) | Supplier Country | Siligle/Sole | | | |
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Section 5.c

Critical Suppliers (cont.)

For each Product and Service segment (A-P), identify your organization's critical suppliers. Only identify suppliers that support products/services mentioned earlier in the survey (in Section X). Each critical supplier should be filled in the Product and Service segment of the product/service they supply - not the segment their product/service is utilized for. For example: a supplier who provides traveling wave tubes should be identified in segment E: Electronics & Computer Technology for Space.

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c) Contributes a significant portion to the end product's value;

d) Provides a product/service that has a long lead-time; and/or

| | | | | I: Power Sources | a Energy Storage | | <u> </u> | | | |
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Section 5.d

Critical Suppliers (cont.)

For each Product and Service segment (A-P), identify your organization's critical suppliers. Only identify suppliers that support products/services mentioned earlier in the survey (in Section X). Each critical supplier should be filled in the Product and Service segment of the product/service they supply - not the segment their product/service is utilized for. For example: a supplier who provides traveling wave tubes should be identified in segment E: Electronics & Computer Technology for Space.

Once you have located the appropriate segment for a supplier, identify the supplier's name, the product/service area they provide (from the drop-down menu), and a short description of the specific product/service. Next, identify the product/service area that each item supplied is utilized for (this should be one of the product/services your organization manufactures or provides). In addition, identify the city, state, and country of the supplier and whether this supplier is a single and/or sole source of the product/service in question (see definitions). Finally, identify any U.S. Government programs that each supplier and product/service is used to support by your organization, if applicable.

If a supplier provides more than one product/service area, complete the supplier information on two separate rows and alter the product/service area accordingly.

For the purposes of this survey, a supplier may be, but does not have to be, considered critical if it:

a) Is used to support multiple U.S. Government programs;

b) Is a sole and/or single source supplier;

c) Contributes a significant portion to the end product's value;

d) Provides a product/service that has a long lead-time; and/or

| Cupplier Neme | Product Area Provided by | Draduat Depariation | Product Area Supplied | erials, Structures, | Supplier State | | Single/Sole | U.S | 6. Government Program Supp | orted |
|---------------|--------------------------|----------------------|-------------------------|---------------------|-------------------|------------------|-------------|-----|----------------------------|-----------|
| Supplier Name | Supplier | Product Description | Product is Utilized For | Supplier City | (if applicable) | Supplier Country | Supplier? | 1 | 2 | 3 |
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| | | | N: Ma | anufacturing Tools | & Specialty Equip | ment | | | | |
| Supplier Name | Product Area Provided by | Product Description | Product Area Supplied | Supplier City | Supplier State | Supplier Country | Single/Sole | U.8 | 6. Government Program Supp | |
| Supplier Name | Supplier | 1 Toddet Description | Product is Utilized For | Supplier Oity | (if applicable) | Supplier Country | Supplier? | 1 | 2 | 3 |
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| Supplier Name | Product Area Provided by | Product Description | Product Area Supplied | Supplier City | Supplier State | Supplier Country | Single/Sole | | 6. Government Program Supp | |
| | Supplier | 1 Toddet Description | Product is Utilized For | Supplier Oity | (if applicable) | Supplier Country | Supplier? | 1 | 2 | 3 |
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| | Product Area Provided by | 1 | Product Area Supplied | | Development | | Single/Sole | | . Government Program Supp | e at e al |
| Supplier Name | | Product Description | | Supplier City | Supplier State | Supplier Country | | | | |
| | Supplier | | Product is Utilized For | , | (if applicable) | | Supplier? | 1 | 2 | 3 |
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| Comments: | | | | | | | | | | |

| organization does not have any sp | ace-related customers, you may skip | | | | | | | | |
|-----------------------------------|-------------------------------------|------------------|------------------|-------------|------------|---|------------|---|------|
| | | Top U.SBased | Customers | | | | | | |
| Customer Name | Type of Customer | Customer City | Customer State | Competitor? | | | Codes Prov | | isto |
| | U.S. Government Defense | | | • | 1 | 2 | 3 | 4 | - |
| | U.S. Government Non- | | | | | | | + | + |
| | Defense | | | | | | | | |
| | Commercial | | | | | | | | + |
| | University | | | | | | | | + |
| | Non-profit organization | | | | | | | | Ŧ |
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| | | Top Non-U.S. Bas | ed Customers | | | | 0 I D | | |
| Customer Name | Type of Customer | Customer City | Customer Country | Competitor? | Prodi 1 | 2 | Codes Prov | | sto |
| | Government Defense | | | | | 2 | 3 | 4 | Ŧ |
| | Government Non-Defense | | | | | | | | + |
| | Commercial | | | | | | | | + |
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| | Non-profit organization | | | | | | | | Ŧ |
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| Se | ctior | 17 | | | Top Competito | rs | | |
|----|-------|---------------------------|--------------------|--------------------|----------------------|------------------------------|--|---|
| | | | | | | | vices. Indicate thier name, the ty cies and centers may be conside | |
| | lf yo | our organization does not | t have competitors | for space-related | products and/or | services, you may skip this | s section. | |
| | | | U.S. Competito | ors | | | Product/Service Segment | |
| | | Competitor Name | е Туре | of Competitor | State | 1 | 2 | 3 |
| | 1. | | | | | | | |
| | 2. | | | | | | | |
| Α. | 3. | | | | | | | |
| | 4. | | | | | | | |
| | 5. | | Non-U.S. Compe | titoro | | | Product/Service Segment | |
| | - | Competitor Name | | of Competitor | Country | 1 | | 3 |
| | 1. | | e Type | or competitor | Country | | 2 | 3 |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |
| | 5. | | | | | | | |
| | | | | | | | opment Centers (FFRDCs) | |
| | | | encies? Explain be | low. If this quest | ion is not applica | ble to your organization, se | elect "Not Applicable" from the | |
| В. | box | to the right. | | | | | | |
| | | | | | | | | |
| | | Comments: | | | | | | |
| | | | BUSIN | ESS CONFIDEN | TIAL - Per Section | on 705(d) of the Defense | Production Act | |

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| Section 8.a Manufacturing Operations | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Section 8 asks questions related to your organization's manufacturing operation | S. | | | | | | | |
| If your organization manufactures one or more of the products in Section 3, you section. | f your organization manufactures one or more of the products in Section 3, you must complete this section. | | | | | | | |
| If your organization has not identified itself as a manufacturer of any of the products in Section 3, select "Not Applicable" in the box to the right. You may the skip this section and proceed to Section 9. | ien | | | | | | | |
| BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Product | on Act | | | | | | | |

| Sec | tion 8.b | Manufacturing Op | erations | | | |
|-----|--|--------------------------------------|-----------------------------------|---------------------------------|--|--|
| А. | Estimate your organization's current "Make/Buy spent for work done by your organization's emp by outside contractors ("Buy" percentage). | | | Make % | | |
| | Note: "Make" includes internal company purcha | asing. | | Buy % | | |
| В. | Does your organization maintain an inventory f definitions) | or space-related components, ma | anufacturing materials, and/or fi | nished products? (See | Components and Manufacturing Materials/Finished Products/Both/None | |
| В. | On average, what is the normal supply level of | space-related finished, manufact | ured products normally kept in | inventory? | Months | |
| | On average, what is the normal supply level of inventory? | ts normally kept in | Months | | | |
| C. | What is the average amount of time it takes to available? | Month Ranges | | | | |
| | Does your organization use any of the element | s identified below in its space-rela | ated production process or as a | component of final prod | ucts? Identify each. | |
| | Aluminium | | Praseod | ymium | | |
| | Antimony | | Rare Earth I | Phosphors | | |
| | Carbon graphite | | Rare Earth Po | lishing Agent | | |
| | Copper | | Sama | rium | | |
| | Dysprosium | | Samarium-Co | | | |
| D. | Europium | | | | | |
| | Gadolinium | | Terbium | | | |
| | Gold | | Tir | | | |
| | Mercury | | Titan | ium | | |
| | Neodymium | | Tung | | | |
| | Neodymium-Iron-Boron Magnets | | Yttri | um | | |
| | Other Rare Earth Oxide or | | Other Rare Earth Metal or | | | |
| | Chemical (specify) | | Alloy (specify) | | | |
| | Identify whether your organization's space-relation Explain your response, identifying the specific of | | ely impacted by any of the follo | wing factors related to the | e elements identified above. | |
| | Factor | Yes/No | | Explain | | |
| | Increase in U.S. demand | | | | | |
| Ε. | Increase in non-U.S. demand | | | | | |
| | Decrease in U.S. availability | | | | | |
| | Decrease in non-U.S. availability | | | | | |
| | Sharp changes in market price | | | | | |
| | Other (specify) | | | 0000 | | |
| | | | | 2008 | | |
| | Estimate the capacity utilization rate (see defin | itions) for your organization from 2 | 2008-2011. | 2009 | | |
| | | , , , , | | 2010 | | |
| F. | Estimate the minimum level of capacity utilizati volume. Explain your response below. | on necessary to keep your produc | ction costs from changing disp | 2011 roportionately to order | | |
| | | | | | 1 | |
| | Comments: | | | | | |
| | | | tion 705(d) of the Defense D | aduation Act | | |
| | BUSI | NESS CONFIDENTIAL - Per Sec | ction 705(d) of the Defense Pi | roduction Act | | |

| Sec | tion 9 | | General Business Op | perations | | | | |
|-----|---|----------------------|---------------------------|----------------------------|--------------------|--|--|--|
| А. | Does your organization mai | | | | Preferred Program? | | | |
| 7 | percentage of suppliers hav | ve preferred status? | | | Percentage: | | | |
| | Does your organization hav organization utilizes for the | | /supplier evaluation pro | | | | | |
| | Ability to manage su requirement | • | | Ownership | | | | |
| | Expectation of fu | uture business | | Quality of products/s | services provided | | | |
| В. | Location and geo | o-political risks | | Single/sole | sourcing | | | |
| | On-cost c | delivery | | Sub-contractor/suppli | | | | |
| | On-time o | delivery | | Terms of P | | | | |
| | Other (specify) | | | Other (specify) | | | | |
| | From the drop-down below, operations. Explain each. | | | | | | | |
| | Type of Business S | upport Operation | Explanation of Challenges | | | | | |
| C. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Comments: | | | | | | | |
| | | BUSINESS CONFI | DENTIAL - Per Section | n 705(d) of the Defense Pr | oduction Act | | | |

| | For each, indicate | whether this support is space- | related, non-space re | elated, or both. | om the list below. | | | | |
|----------|--|--|--|---|----------------------|--|--|--|--|
| | | Agency | | Agency | | | | | |
| | Central Intelligenc | e Agency (CIA) | Space-related | National Geospatial-Intelligence Agency (NGA) | | | | | |
| | Defense Advance (DARPA) | d Research Projects Agency | Non-space related | National Oceanic and Atmospheric Administration (NOAA) | | | | | |
| | Director, Defense (DDR&E) | Research and Engineering | Both | National Aeronautics and Space Administration (NASA) | | | | | |
| ٩. | Department of Energy August Au | ergy (including the National Administration) | Do Not Support National Reconnaissance Office (NRO) | | | | | | |
| | Federal Aviation Administration (FAA) | | AA) National Security Agency (NSA) | | | | | | |
| | Missile Defense Agency (MDA) | | | U.S. Air Force (including the Space and Missile Systems Center and AFRL) | | | | | |
| | Other (specify) | | | U.S. Army (including the Space and Missile Defense Command) | | | | | |
| | Other (specify) | | | U.S. Navy (including the Office of Naval Research and Naval Research Laboratory) | | | | | |
| | Other (specify) | | | Other Department of Defense Organizations | | | | | |
| | Does your organization consider itself dependent upon current U.S. Government space-related programs for its continued viability? Evaluation your response below | | | | | | | | |
| 3 | | | | | | | | | |
| 3. | continued viability | ? Explain your response below | | | | | | | |
| з. С. | Estimate the perce | · · · | your current U.S. Go | overnment space-related product/service lines with | % ranges | | | | |
| с. | Estimate the perce current commercia Estimate the perce | entage range of compatibility of al space applications, if applical | your current U.S. Go ble. all your space-relate | ed product/service lines (U.S. Government- and | % ranges % ranges | | | | |
| с. | Estimate the perce current commercia Estimate the perce commercial) to yo Is your organizatio | entage range of compatibility of al space applications, if applical entage range of compatibility of ur non-space related product/se on capable of providing special | your current U.S. Go ble. all your space-relate ervice lines, if applica ty, low-volume or one | ed product/service lines (U.S. Government- and able. e-time, space-related products/services to the U.S. | Ŭ | | | | |
| 2. | Estimate the perce current commercia Estimate the perce commercial) to yo Is your organizatio Government at a r Is your organizatio | entage range of compatibility of al space applications, if applical entage range of compatibility of ur non-space related product/se on capable of providing special reasonable cost, while maintain on willing to provide specialty, | your current U.S. Ge ble. all your space-relate ervice lines, if applica ty, low-volume or one ing your current busi low-volume or one-ti | ed product/service lines (U.S. Government- and able. e-time, space-related products/services to the U.S. ness operations? me, space-related products/services to the U.S. | 0 | | | | |
| с. Э. | Estimate the perce current commercia Estimate the perce commercial) to yo Is your organizatio Government at a r Is your organizatio Government at a r | entage range of compatibility of al space applications, if applical entage range of compatibility of ur non-space related product/se on capable of providing special reasonable cost, while maintain on willing to provide specialty, reasonable cost, while maintain | your current U.S. Ge ble. all your space-relate ervice lines, if applica ty, low-volume or one ing your current busi low-volume or one-ti ing your current busi | ed product/service lines (U.S. Government- and able. e-time, space-related products/services to the U.S. ness operations? me, space-related products/services to the U.S. ness operations? | 0 | | | | |
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| | Estimate the perce current commercia Estimate the perce commercial) to yo Is your organizatio Government at a r Is your organizatio Government at a r Are there steps the related products a | entage range of compatibility of al space applications, if applical entage range of compatibility of ur non-space related product/se on capable of providing special reasonable cost, while maintain on willing to provide specialty, reasonable cost, while maintain at the U.S. Government can tak ind services more attractive to y | your current U.S. Go ble. all your space-relate ervice lines, if applica ty, low-volume or one- ing your current busi low-volume or one-ti ing your current busi ke to make the provis your company? Expl | ed product/service lines (U.S. Government- and able. e-time, space-related products/services to the U.S. ness operations? me, space-related products/services to the U.S. ness operations? sion of specialty, low-volume or one-time, space- ain your response below. | 0 | | | | |
| D. | Estimate the perce current commercial Estimate the perce commercial) to yoo Is your organizatic Government at a r Is your organizatic Government at a r Are there steps the related products a Does your organiz | entage range of compatibility of al space applications, if applical entage range of compatibility of ur non-space related product/se on capable of providing special reasonable cost, while maintain on willing to provide specialty, reasonable cost, while maintain at the U.S. Government can tak ind services more attractive to y | your current U.S. Geble. all your space-relate ervice lines, if applice ty, low-volume or one ing your current busi low-volume or one-ti ing your current busi ke to make the provis your company? Expl | ed product/service lines (U.S. Government- and able. e-time, space-related products/services to the U.S. ness operations? me, space-related products/services to the U.S. ness operations? sion of specialty, low-volume or one-time, space- | 0 | | | | |
|).). | Estimate the perce current commercial Estimate the perce commercial) to yoo Is your organizatic Government at a r Is your organizatic Government at a r Are there steps the related products a Does your organiz | entage range of compatibility of al space applications, if applical entage range of compatibility of ur non-space related product/se on capable of providing special reasonable cost, while maintain on willing to provide specialty, reasonable cost, while maintain at the U.S. Government can tak and services more attractive to y | your current U.S. Geble. all your space-relate ervice lines, if applice ty, low-volume or one ing your current busi low-volume or one-ti ing your current busi ke to make the provis your company? Expl | ed product/service lines (U.S. Government- and able. e-time, space-related products/services to the U.S. ness operations? me, space-related products/services to the U.S. ness operations? sion of specialty, low-volume or one-time, space- ain your response below. | 0 | | | | |
| с. Э. | Estimate the perce current commercial Estimate the perce commercial) to yoo Is your organizatic Government at a r Is your organizatic Government at a r Are there steps the related products a Does your organiz technologies to the Has your company prime contract, a s | entage range of compatibility of al space applications, if applical entage range of compatibility of ur non-space related product/se on capable of providing special reasonable cost, while maintain on willing to provide specialty, reasonable cost, while maintain at the U.S. Government can tak and services more attractive to y cation have effective avenues th e U.S. Government? Explain ye y ever received a rated order (E | your current U.S. Geble. all your space-relate ervice lines, if applica ty, low-volume or one ing your current busi low-volume or one-ti ing your current busi ke to make the provis your company? Expl arough which you are pur response below. | ed product/service lines (U.S. Government- and able. e-time, space-related products/services to the U.S. ness operations? me, space-related products/services to the U.S. ness operations? sion of specialty, low-volume or one-time, space- ain your response below. e able to present innovative products, services, and below. C. Government agency? A rated order means a proved program issued in accordance with the | 0 | | | | |

| 6.00 | tion 11.a | | Domondon | | | | | | | | |
|------|--|--|---|---|---------------------------|---------------------------|--|--|--|--|--|
| | On a scale from 1 related products/set | | ion's vulnerability to large vulnerability; 5 = very high | d Production variability of U.S. Governme vulnerability). Explain your down. | | | | | | | |
| | | | | | | | | | | | |
| В. | products/services | On a scale from 1 to 5, what is your organization's vulnerability to large variability of commercial demand for space-related products/services over time? (1 = no vulnerability; 5 = very high vulnerability). Explain your response below. If this is not applicable to your company, select 'Not Applicable' from the drop-down. | | | | | | | | | |
| | | | | | | | | | | | |
| | From the list below organization: | , select the potential impac | ts a sudden decrease in d | lirect and/or indirect U.S. Go | overnment space-related o | demand would have on your | | | | | |
| | Decreased capital | expenditures | | Pursuit of new product line | | | | | | | |
| | Decreased research & development expenditures | | | Pursuit of other non-U.S. c | | | | | | | |
| | Disproportionate re | eduction in sales revenue | | Pursuit of other U.S. custo | | | | | | | |
| C. | Elimination of all participation in U.S. Government contracts | | | Reduced participation in U contracts | | | | | | | |
| | Increased product/ | service costs | | Reduction or elimination of | | | | | | | |
| | Loss of company v | viability or solvency | | Sale of key production equ | ipment | | | | | | |
| | Loss of personnel | with key skills | | Other (specify) | | | | | | | |
| | Other (specify) | | | Other (specify) | | | | | | | |
| | Comments: | | | | | | | | | | |
| | | BUSINE | SS CONFIDENTIAL - Per | Section 705(d) of the Defe | ense Production Act | | | | | | |

| | All/Not Applicable |
|--|---|
| rom 2008-2011, indicate if your organization experienced an increase, decrease, or no c emand for the following activities that you provide, if applicable. Explain your response to Distribution/brokerage/reseller/retail hspection and quality control htegration (product, systems integration) nformation technology (software, hardware, installation) Maintenance/aftermarket/repair/refurbishing services Manufacturing (including assembly) Manufacturing systems development and management Material finishing (machining, coating, plating, heat treating, etc.) Material preparation (casting, forming, molding, forging, etc.) Product and design engineering (tooling, new processes, etc.) Professional services (legal, accounting, consulting, etc.) Research and development Raw materials provider resting/evaluation/validation | o , |
| omments: | |
| | emand for the following activities that you provide, if applicable. Explain your response to istribution/brokerage/reseller/retail inspection and quality control integration (product, systems integration) information technology (software, hardware, installation) formation technology (software, hardware, installation) faintenance/aftermarket/repair/refurbishing services fanufacturing (including assembly) fanufacturing systems development and management faterial finishing (machining, coating, plating, heat treating, etc.) for duct and design engineering (tooling, new processes, etc.) for fessional services (legal, accounting, consulting, etc.) for sevices (legal, accounting, consulting, etc.) for sevices not specified elsewhere in this list is the sevices is the sevices of the sevices is the sevices of the |

Section 12

Provide your organization's 2008-2011 U.S. and non-U.S. sales information and projected 2012-2016 sales trend information. Calendar year data is preferred. Estimates are acceptable.

Sales

Note: Ensure your source of sales data is consistent with your response to Section X, Question X. In other words, if you have declared this to be a Division/Business Unit-level response, this section should contain Division/Business Unit-level data.

| Source of Sales Data: Reporting Schedule: | | | | | | | | | | |
|--|------------|-----------------------|-----------|--|--------|---|--|------|------|-------------------|
| "U.S." means U.S. domestic sales; "Non-U.S." – means export sales from U.S. locations | | 2008 U.S. Non-U.S. | | Record in \$ Thousa 2009 U.S. Non-U.S. | | ands, e.g. \$12,000.00 2010 U.S. Non-U.S. | | 2011 | | -2016 Non-U.S. |
| A. Total Sales, all Customers (in \$) | | | | | | | | | U.S. | |
| B. Total Non-Government Sales (as a % of part A) | | | | | | | | | | |
| C. Total Government Sales (as a % of part A) | | | | | | | | | | |
| D. Total Space-Related Sales (in \$) | | | | | | | | | | |
| E. U.S. Government Space-Related, Defense Sales (as a % of part D) | | | | | | | | | | |
| F. U.S. Government Space-Related, Non- Defense Sales (as a % of part D) | | | | | | | | | | |
| G. Commercial Space-Related Sales (as a % of part D) | | | | | | | | | | |
| Comments: | | | | | | | | | | |
| BUSINES | er Sectior | n 705(d) of t | he Defens | se Producti | on Act | | | | | |

Section 13.a

Financials

Report select line items from your organization's financial statement for years 2008-2011. From the drop-down indicate whether the reported income statement and balance sheet select line items are Business Unit/Division or Corporate/Whole Organization financials.

Note: **Universities should not provide financial information.** Please skip to Section X.

Note: **Ensure your source of sales data is consistent with your response to Section X, Question X.** In other words, if you have declared this to be a Division/Business Unit-level response, this section should contain Division/Business Unit-level data.

| Source of Financial Line Iten | ns: | | | |
|--|--------|----------------------------|-------------------------|------------|
| Reporting Schedule: | | | | |
| Income Statement (Select Line Iteme) | Record | d in \$ Thousands, e.g. \$ | 12,000.00 = survey inpu | ut of \$12 |
| Income Statement (Select Line Items) | 2008 | 2009 | 2010 | 2011 |
| A. Net Sales (and other revenue) | | | | |
| B. Cost of Goods Sold | | | | |
| C. Total Operating Income (Loss) | | | | |
| D. Earnings Before Interest and Taxes | | | | |
| E. Net Income | | | | |
| Balance Sheet (Select Line Items) | Record | d in \$ Thousands, e.g. \$ | 12,000.00 = survey inpu | ut of \$12 |
| Dalance Sheet (Select Line items) | 2008 | 2009 | 2010 | 2011 |
| A. Cash | | | | |
| B. Inventories | | | | |
| C. Total Current Assets | | | | |
| D. Total Assets | | | | |
| E. Total Current Liabilities | | | | |
| F. Total Liabilities | | | | |
| G. Retained Earnings | | | | |
| H. Total Owner's Equity | | | | |
| Comments: | | | | |
| BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act | | | | |

| | tion 13.b | Financials (cont.) | | | | |
|-------|--|---|--|--|--|--|
| | Use the space below to qualify with narrative any anomalies, transactions, or non-recurring events reflected in your financial | | | | | |
| state | ement line i | tems, e.g. reporting restatement, merger and acquisition, Chapter 11, SEC investigation, etc. | | | | |
| | | | | | | |
| Α. | 2008 | | | | | |
| | | | | | | |
| В. | 2009 | | | | | |
| Б. | 2009 | | | | | |
| | | | | | | |
| C. | 2010 | | | | | |
| | | | | | | |
| | | | | | | |
| D. | 2011 | | | | | |
| | | | | | | |
| Co | Comments: | | | | | |
| | | | | | | |
| | | BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act | | | | |
| | | | | | | |

Section 14.a

Research and Development

Record your organization's total research and development (R&D) dollar expenditures and the percentage of total R&D expenditures for all operations at this survey's reporting level. Then, indicate both the type of R&D performed, by percent allocation, and your organization's R&D funding sources, by percent of total R&D dollars sourced.

Note: If your organization's annual Total R&D Expenditures and Total R&D Funding Sources do not match, explain the discrepancy in the comment box. Note: **Ensure your source of R&D data is consistent with your response to Section X, Question X.** In other words, if you have declared this to be a Division/Business Unit-level response, this section should contain Division/Business Unit-level data.

| | | Source of R&D Data: | | | | |
|----|----|--|--------------------|---------------------|----------------------|---------------|
| | | R&D Reporting Schedule: | | | | |
| | | D&D Evpanditures | Record \$ in | Thousands, e.g. \$ | 12,000.00 = survey i | input of \$12 |
| | | R&D Expenditures | 2008 | 2009 | 2010 | 2011 |
| | 1. | Total R&D Expenditures | | | | |
| | 2. | Basic Research (as a percent of 1) | | | | |
| Α. | 3. | Applied Research (as a percent of 1) | | | | |
| | 4. | Product/Process Development (as a percent of 1) | | | | |
| | 5. | Total of 2 - 4 (must equal 100%) | 0% | 0% | 0% | 0% |
| | 6. | % of Total R&D Expenditures relating to space-related business lines | | | | |
| | | R&D Funding Sources | Record \$ in | Thousands, e.g. \$2 | 12,000.00 = survey i | nput of \$12 |
| | | | 2008 | 2009 | 2010 | 2011 |
| | | Total R&D Funding Sources | | | | |
| | 2. | Internal/Self-Funded/IRAD (as a percent of 1) | | | | |
| В. | 3. | Total Federal Government (as a percent of 1) | | | | |
| D. | | Total State and Local Government (as a percent of 1) | | | | |
| | | Universities - Public and Private (as a percent of 1) | | | | |
| | | U.S. industry, venture capital, non-profit (as a percent of 1) | | | | |
| | | Non-U.S. investors (as a percent of 1) | | | | |
| | 8. | Other (specify) | | | | |
| | | Comments: | | | | |
| | | BUSINESS CONFIDENTIAL - Per Section | 705(d) of the Defe | nse Production Ac | :t | |

| Sec | tion 14.b | Research & Developme | nt (cont.) | | | |
|-----|--|---|------------|-----------|--|--|
| A. | Have your organization's R&D expenditures been adversely impacted by reductions in U.S. Government space- related spending? Significantly Impact/Moderate Impact/Little Impact/No Impact/Not Applicable | | | | | |
| В. | Do you anticipate your organization U.S. Government space-related spo | Significantly Impact/Moderate Impact/Little Impact/No Impact/Not Applicable | | | | |
| | | | | | | |
| | Identify the number of space-related Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) contracts your organization has participated in by phase since 2008. | | | | | |
| | | Phase I | Phase II | Phase III | | |
| C. | SBIR Contracts | | | | | |
| | STTR Contracts | | | | | |
| D. | Has your organization had difficulty in securing private funding in order to successfully bring space-related research and development projects to market? If "Yes," explain below. | | | | | |
| υ. | | | | | | |
| | Comments: | | | | | |
| | | | | | | |

Section 15

Capital Expenditures

Record your organization's capital expenditures corresponding to the select categories for all operations at this survey's response level.

Note: Ensure your source of capital expenditure data is consistent with your response to Section X, Question X. In other words, if you have declared this to be a Division/Business Unit-level response, this section should contain Division/Business Unit-level data.

| | BUSINESS CONFIDENTIAL - Per | Saction 705(d) of the | o Dofonco Broductio | n Aot | | |
|----------|---|-----------------------|---|-------------------|------|--|
| | Comments: | | | | | |
| | | | | | | |
| D. | Do you anticipate your organization's capital expenditures to be adversely impacted in the future by reductions in U.S. Government space-related spending? Explain your response below. Significantly Impact/Not Applicable | | | act/No Impact/Not | | |
| C. | C. Have your organization's capital expenditures been adversely impacted by reductions in U.S. Government Significantly Impact/Moderate Impact/No Impact/No Impact/No Impact/No Impact/No Impact/No Applicable | | | act/No Impact/Not | | |
| G. | % of Total Capital Expenditures relating to space-related busine lines | SS | | | | |
| F. | Other (specify) | | | | | |
| D. E. | Land, Buildings, and Leasehold Improvements (as a percent of 1) Other (specify) | | | | | |
| C. | IT, Computers, Software (as a percent of 1) | | | | | |
| Β. | Machinery, Equipment, and Vehicles (as a percent of 1) | | | | | |
| Α. | Total Capital Expenditures | 2000 | 2009 | 2010 | 2011 | |
| | Capital Expenditure Category | Record in 2008 | Record in \$ Thousands, e.g. \$12,000.00 = survey input of \$12 | | | |
| | Capital Expenditure Reporting Schedule: | | | | | |
| | Source of Capital Expenditure Data: | | | | | |

Section 16.a

Employment

Record the total number of full-time equivalent (FTE) employees in your **U.S.-based operations** for the 2008-2011 period. Then, estimate the percentage of these employees that perform the professional occupations indicated in parts b-j. Next, estimate the percentage of your employees that work on space-related applications, followed by those who perform functions that are STEM-related (see definitions).

Do not double count personnel who may perform cross-operational roles. Estimates are encouraged.

Note: **Ensure your source of employment data is consistent with your response to Section X, Question X.** In other words, if you have declared this to be a Division/Business Unit-level response, this section should contain Division/Business Unit-level data.

| | Source of Workforce Data: | | | | |
|----|--|------|------|------|------|
| | Reporting Schedule: | | | | |
| | Professional Occupations | 2008 | 2009 | 2010 | 2011 |
| | a. Total Full Time Equivalent (FTE) Employees | # | # | # | # |
| | b. Administrative, Management, & Legal Staff | % | % | % | % |
| | c. Facility & Maintenance Staff | | | | |
| | d. Information Technology Professionals | | | | |
| Α. | e. Marketing & Sales | | | | |
| | f. Engineers, Scientists, and R&D Staff | | | | |
| | g. Production Line Workers | | | | |
| | h. Testing Operators, Quality Control, & Support Technicians | | | | |
| | i. Other (specify) | | | | |
| | j. Other (specify) | | | | |
| В. | B. Estimate the percentage of your employees that currently work on space-related products/services: % | | 6 | | |
| C. | C. Estimate the percentage of your employees that perform functions that are STEM-related: % | | | | |
| | Comments: | | | | |
| | BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act | | | | |

| > 60 Years Old | | | | | |
|--|--|--|--|--|--|
| > 60 Years Old | | | | | |
| > 60 Years Old | | | | | |
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| Retain | | | | | |
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| | | | | | |
| Identify any unique space-related skills and/or competencies that your organization may have. Identify the general type of skill and/or competency from the drop-down menu then describe it in the right hand box. | | | | | |
| tion | | | | | |
| | | | | | |
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| | | | | | |
| 5. | | | | | |
| Comments: | | | | | |
| BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act | | | | | |
| | | | | | |

| Se | ction 17 C | Dbstacles Affecting Long-Term Viability | | | | |
|----|---|--|--|--|--|--|
| | | dentify the top five issues and challenges affecting the long-term viability of your organization's product line(s) or service(s). Select five of the | | | | |
| | issues/challenges below, ranking them 1 to 5, with 1 be | eing your top concern. | | | | |
| | Barriers to entry in the commerical space market | Pension Costs | | | | |
| | Buy American Act Waivers | Proposed cuts to U.S. Government space programs | | | | |
| | Counterfeit Parts | Proximity to Customer | | | | |
| | Domestic Competition | Proximity to Supplier | | | | |
| | Environmental Regulations/ Remediation | Qualifications/Certifications | | | | |
| A. | Export Controls/ITAR Regulations | R&D Costs | | | | |
| А. | Foreign Competition | Skills Retention | | | | |
| | Foreign Subsidies/Import Restrictions | Taxes | | | | |
| | Government Acquisition Process | U.S. Material Availability | | | | |
| | Government Purchasing Volatility | U.S. Supplier Reliability | | | | |
| | Government Regulatory Burden | Variability of Demand | | | | |
| | Healthcare | Other (specify) | | | | |
| | Non-U.S. Material Availability | Other (specify) | | | | |
| | Non-U.S. Supplier Reliability | Other (specify) | | | | |
| | Labor Costs | Other (specify) | | | | |
| | will follow-up with your organization regarding your sel Manufacturing technology development (including acquiring, licensing, and/or commercializing federally developed technologies) | In these government programs, select the specific areas of interest below. The Commerce Department ections. Product/service development (including manufacturing standards, processes, and practices) | | | | |
| | R&D programs | Financing (access to capital, loans, etc.) | | | | |
| В. | Technology transfer | Training opportunities | | | | |
| | Business development (joint ventures, new markets, etc.) | Patents and trademarks | | | | |
| | Export opportunities | Energy and environmentally conscious manufacturing | | | | |
| | Export licensing (ITAR/EAR) | Government procurement guidelines and e-commerce | | | | |
| | Marketing assessments skills | Other (specify) | | | | |
| | Comments: | | | | | |
| | BUSINESS CONFI | DENTIAL - Per Section 705(d) of the Defense Production Act | | | | |

| Section 18 | Certification | | | | | | |
|--|--|--|--|--|--|--|--|
| The undersigned certifies that the information herein sup | plied 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 fals | nowledge. 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)) | | | | | | |
| Organization Name | | | | | | | |
| Organization's Internet Address | | | | | | | |
| Name of Authorizing Official | | | | | | | |
| Title of Authorizing Official | | | | | | | |
| E-mail Address | | | | | | | |
| Phone Number and Extension | | | | | | | |
| Date Certified | | | | | | | |
| In the box below, provide any additional comments or any other information you wish to include regarding this survey assessment. | | | | | | | |
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| How many hours did it take to complete this survey? | | | | | | | |
| | | | | | | | |
| BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act | | | | | | | |