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OMB Control Number: 0694-0120

Expiration Date: November 30, 2019

Section 232 Investigation: The Effect of Imports of Uranium on the National Security

Front End Survey



SCOPE OF ASSESSMENT

The U.S. Department of Commerce, Bureau of Industry and Security (BIS), Office of Technology Evaluation (OTE), is conducting a survey of the U.S. uranium mining, milling, conversion, enrichment, and fuel fabrication sectors. The survey results will be used to support an ongoing investigation of the effect of imports of uranium on the national security initiated under Section 232 of the Trade Expansion Act of 1962, as amended.

The principal goal of this survey is to assist the U.S. Department of Commerce in determining whether uranium is being imported into the United States in such quantities or under such circumstances as to threaten to impair the national security. Information collected will include facilities and production data, mergers and acquisitions, joint ventures, imports and exports, supply chain networks, customers, sales and demand data, employment information, conditions of domestic and global competition, research and development, and other financial factors. The resulting data will provide the U.S. Department of Commerce detailed uranium industry information that is otherwise not publicly available and needed to effectively conduct this Section 232 investigation.

RESPONSE TO THIS SURVEY IS REQUIRED BY LAW

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 Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C. Sec. 4555).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

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

BURDEN ESTIMATE AND REQUEST FOR COMMENT

Public reporting burden for this collection of information is estimated to average 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. 0694-0120), Washington, D.C. 20503.

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

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| TTCVI | General Instructions |
| A. | Your organization is required to complete this survey of the U.S. uranium mining, milling, conversion, enrichment, and fuel fabrication sectors using an Excel template, which can be downloaded from the BIS website: http://www.bis.doc.gov/uraniumFE If you are unable to download the survey document, at your request, BIS survey support staff will e-mail the Excel survey template directly to you. For your convenience, a PDF version of the survey and required drop-down content is available on the BIS website to aid internal data collection. DO NOT SUBMIT the PDF version of the survey as your response to BIS. Should this occur, your organization will be required to resubmit the survey in the requested Excel format. |
| В. | Respond to every question. Surveys that are not fully completed will be returned for completion. Use the comment boxes to provide any information to supplement responses provided in the survey form. Make sure to record a complete answer in the space provided, even if the space does not appear to expand to fit all of the information. This is a comprehensive survey of the entire front end nuclear fuel industry. As such, some questions may not be relevant to your organization. Read each question carefully to determine applicability to your organization. DO NOT CUT AND PASTE RESPONSES WITHIN THIS SURVEY OR PASTE IN RESPONSES FROM OUTSIDE THE SURVEY. Survey inputs should be completed by typing in responses or by using a drop-down menu. The use of cut and paste can corrupt the survey template. If your survey response is corrupted as a result of cut and paste response, your survey will be rejected and your organization must immediately resubmit the survey. |
| D. | Do not disclose any USG classified information in this survey form. |
| E. | Upon completion of the survey, final review, and certification, transmit the survey document via e-mail to : Uranium232@bis.doc.gov |
| F. | Questions related to the survey should be directed to BIS survey support staff at Uranium232@bis.doc.gov. E-mail is the preferred method of contact. You may speak with a member of the BIS survey support staff by calling (202) 482-3800. |
| G. | For questions related to the overall scope of this Section 232 Investigation, contact Uranium232@bis.doc.gov or: Brad Botwin, Director, Industrial Studies Office of Technology Evaluation, Bureau of Industry and Security, Room 1093 U.S. Department of Commerce 1401 Constitution Avenue, NW Washington, DC 20230 DO NOT submit completed surveys to Mr. Botwin's postal or personal e-mail address. All surveys must be submitted electronically to: Uranium232@bis.doc.gov BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act |



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| | Definitions |
| Term | Definition |
| Alternate Feeds | A classification created by the Nuclear Regulatory Commissions that includes material that is not traditional ore that can be processed to recover uranium for its source material content. |
| Applied Research | A systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met. This activity includes work leading to the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes. |
| Authorizing Official | An executive officer of the organization or business unit or another individual who has the authority to execute this survey on behalf of the organization. |
| Basic Research | A systematic, scientific study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts. |
| Boiling Water Reactor (BWR) | A common nuclear power reactor design in which water flows upward through the core, where it is heated by fission and allowed to boil in the reactor vessel. The resulting steam drives turbines, which activate generators to produce electrical power. |
| Capital Expenditures | Investments made by an organization in buildings, equipment, property, and systems where the expense is depreciated. This does not include expenditures for consumable materials, other operating expenses, and salaries associated with normal business operations. |
| Customer | Any organization (external or internal entity) for which your organization manufactures/processes any product comprised of, or containing, uranium in any form. |
| Conventional Mining | The act of removing uranium ore from deep underground shafts or shallow open pits. |
| Defense-related Activities | Any product or service that your organization produces that is ultimately used by the U.S. government for defense purposes, whether by the armed services, the Department of Defense, or any other U.S. government entity. |
| Depleted Uranium | Uranium in which the percentage fraction by weight of U-235 is less than 0.711 percent. |
| Development | The design, simulation, and testing of a prototype, including experimental software or hardware systems, to validate technological feasibility or concept of operation in order to reduce technological risk, or provide test systems prior to production approval. |
| Enriched Uranium | Includes enriched uranium oxide, enriched uranium hexafluoride, and other enriched uranium. Uranium enriched in U-235 and its compounds: alloys, dispersions (including cermets), ceramic products, and mixtures containing uranium enriched in U-235. |
| Exports | Shipments to destinations outside the United States. |
| Facility | A building or the minimum complex of buildings or parts of buildings that conduct mining, milling, conversion, enrichment, fuel fabrication, and/or nuclear power generation-related operations, in which an organization operates to serve a particular function, producing revenue, and incurring costs for the company. A facility may produce an item of tangible or intangible property or may perform a service. It may encompass a floor or grou of floors within a building, a single building, or a group of buildings or structures. Often, a facility is a group of related locations at which organization employees work, together constituting a profit-and-loss center for the company, and it may be identified by a unique DUNS number. |
| Foreign Corrupt Practices Act of 1977 (FCPA) 15 U.S.C. §§ 78dd-1 | The Foreign Corrupt Practices Act (FCPA), enacted in 1977, generally prohibits the payment of bribes to foreign officials to assist in obtaining or retaining business. The FCPA can apply to prohibited conduct anywhere in the world and extends to publicly traded companies and their officers, directors, employees, stockholders, and agents. Agents can include third party agents, consultants, distributors, joint-venture partners, and others. |
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| Fuel Assemblies | A structured group of fuel rods (long, slender, metal tubes containing pellets of fissionable material, which provide fuel for nuclear reactors). |
|---|---|
| Fuel Elements | Includes fuel rods or fuel pellets, non-irradiated, and other parts thereof. |
| Fuel Fabrication | The last step in the process of turning uranium into nuclear fuel rods, whereby enriched UF6 is converted to uranium dioxide powder that is pressed into pellets and inserted into fuel rods, grouped together to form fuel assemblies. |
| Full Time Equivalent (FTE) Employees | Employees who work for 40 hours in a normal work week. Convert part-time employees into "full time equivalents" by taking their work hours as a fraction of 40 hours. |
| Global Headquarters | A location that serves as the organization's hub of worldwide operations with all global branches or divisions reporting to it. |
| Harmonized Tariff Schedule (HTS) | A 10-digit numbering system that classifies a good based on its name, use, and/or the material used in its construction. The number provides Customs and Border Protection (CBP) with a standardized method of tracking all merchandise imported into the United States and sets out the tariff rates and statistical categories. |
| Import Value | Values reported should be landed, duty-paid values at the U.S. port of entry, including ocean freight and insurance costs, brokerage charges, and import duties (i.e., all charges except inland freight in the United States). |
| Inventory | The goods or materials an organization holds for its own use or for the ultimate goal of sale, or disposition or future conversion, enrichment, fabrication, or other use. This is material to which your organization has title; this does not include holding material for third-party use or storage. |
| In Situ Recovery (ISR) | Formerly known as in situ leach recovery, ISR is the process where uranium ore is chemically altered underground before being pumped to the surface for further processing. |
| Term Contract | Contracts with one or more uranium deliveries to occur after a year following the contract execution (signed date), and as such, may reflect some agreements of short and medium terms, as well as longer term. |
| Natural Uranium | Uranium with the same isotopic ratio as found in nature. This includes uranium ore and concentrates (U3O8) and natural uranium hexafluoride (UF6). |
| Non-U.S. Facility | A facility that is physically located outside of the United States. |
| Organization | A company, firm, laboratory, or other entity that owns or controls one or more U.S. establishment or facility capable of designing and/or manufacturing products in the mining, milling, conversion, enrichment, or fuel fabrication activities of the nuclear fuel cycle. |
| Pressurized Water Reactor (PWR) | A common nuclear power reactor design in which very pure water is heated to a very high temperature by fission, kept under high pressure (to prevent it from boiling), and converted to steam by a steam generator. The resulting steam is used to drive turbines, which activate generators to produce electrical power. |
| Product/Process Development | Conceptualization and development of a uranium or nuclear fuel-related product or system prior to the production of the product for customers (i.e., utilities, governmental agencies etc.). |
| Production | The process of transforming inputs (raw materials, semi-finished goods, subassemblies, ideas, information, knowledge) into goods or services. |
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| Research & Development | Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Efforts that an organization conducts towards innovating, introducing and/or improving products and processes. |
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| Russian Suspension Agreement | On October 16, 1992, the Department of Commerce suspended the antidumping duty investigations involving uranium imports from Russia on the basis of agreements by the country's government to restrict the volume of direct or indirect exports to the United States in order to prevent the suppression or undercutting of price levels of United States domestic uranium. The agreement expires in 2020. |
| Sales | All reported and unreported sales of uranium (natural, converted, enriched and/or fabricated), including sales to end-users, producers, conversion facilities, enrichers, financial entities, intermediaries, traders, distributors, et al. |
| Separative Work Unit (SWU) | The standard measure of enrichment services. |
| Spot Contract | Contracts with a one-time uranium delivery (usually) for the entire contract, and the delivery typically occurs within one year of contract execution (signed date). |
| Supplier | An entity from which your organization obtains inputs, which may be goods or services. A supplier may be another organization with which you have a contractual relationship, or it may be another facility owned by the same parent organization. |
| U.S. Department of Energy Uranium Transfer Program | The exchange of natural, enriched, or depleted uranium "tails," or uranium enrichment services between the U.S. Department of Energy and another party. |
| United States | The "United States" or "U.S." includes the 50 states, Puerto Rico, the District of Columbia, Guam, the Trust Territories, and the U.S. Virgin Islands. |
| Uranium Compounds | Includes uranium oxide, uranium hexafluoride, and other uranium compounds. |
| Uranium Concentrate | The end product of the mining and milling stage in which triuranium octoxide (U3O8) is produced. |
| Uranium Conversion | The process whereby natural uranium in the form of an oxide is converted to natural uranium hexafluoride. |
| Uranium Metal (Natural) | A lustrous silver-white metal that is radioactive, malleable, ductile, and softer than steel. It contains an isotopic ratio of 99.27% U-238, 0.72 % U-235, and 0.0055 % U-234 by weight. |
| Uranium Metal (Depleted) | A byproduct of enrichment (tailings) or fission, DU has less than one-third of the concentration of U-235 and U-234 by weight. DU from fission (i.e., in reprocessed used nuclear fuel) is distinct because it also contains U-236. |
| Uranium Mill | A plant where uranium is separated from ore taken from mines, including both conventional mills and in situ recovery (ISR) plants. |
| Uranium Ore | Ore which contains uranium that has been obtained from conventional or in situ mining methods. |
| 10 CFR § 40.42 | Title and section of the U.S. Code of Federal Regulations that cover Nuclear Regulatory Commission's (NRC) regulation for the expiration and termination of licenses and decommissioning of sites and separate buildings or outdoor areas. |
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| | | 1: | Organization | Information | | | | |
| | Provide the following information for your | organization | | | | | | |
| | Organization Name | | | | | | | |
| | Street Address | | | | | | | |
| | City | | | | | | | |
| | State | | | | | | | |
| A. | ZIP Code | | | | | | | |
| | Country of Global Headquarters | | | | | | | |
| | U.S. Point of Contact Name | | | | | | | |
| | U.S. Point of Contact Email | | | | | | | |
| | U.S. Point of Contact Phone | | | | | | | |
| | Is this organization owned, in whole or in papplicable. List entities with at least 5% ow Entity Name | part, by any private or governn vnership. Global Headquarters Street Address | nent entity? Ind Global Headd | | then identify the entities be Global Headquarters State/Province | Global Headqua | arters | Ownership % |
| | | Address | | | State/Province | Country | | |
| В. | | | | | | | | |
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| | At the global headquarters level, identify t materials, product development and desig inside and outside the U.S. | the total number of uranium-regn facilities, and research and c | elated mining, i levelopment fa | milling, conver acilities that yo | sion, enrichment, fuel fabrica ur organization currently ope | ation, uranium stora erates, including star | ge for thindby/idle | ird party e facilities, |
| | Act | tivity | | Num | ber of U.S. Facilities | Number of N | lon-U.S. | Facilities |
| | Uranium Mining | | | | | | | |
| | Uranium Milling | | | | | | | |
| C. | Uranium Conversion | | | | | | | |
| | Uranium Enrichment | | | | | | | |
| | Fuel Fabrication | | | | | | | |
| | Product Development & Design | | | | | | | |
| | Research & Development | | | | | | , | |
| | Uranium Storage Facility for Third Party M | aterials | | | | | | |
| | Other | (specify) | | | | | | |
| | Comments: | | | | | | | |
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| | | | | | | | uisitions, Divestitures and Joint V | | |
| - | | | | | | Merge | ers, Acquisitions, and Divesiture | S | |
| | | | | cquisitions, and divestitures rel esign, and R&D in which your c | | fuel cycle activitie | s, including mining, milling, conve | ersion, | |
| | | Organization Name | Type of Activity | % of Equity Held by Partner Organization | Partner Organization Country Headquarters | Year Initiated | Primary Scope of Activity | Primary Purpose of Activity | Explain |
| | 1 | | | | | | Mining | Access to financial resources | |
| | 2 | | | | | | Milling | Broaden customer base | |
| | 3 | | | | | | Conversion | Access to technological resources | |
| Α. | 5 | | | | | | Enrichment | Broaden customer base | |
| | 6 | | | | | | Fuel Fabrication R&D | Creation of new technologies Improved access to foreign markets | |
| - | 7 | | | | | | Development and Design | Improved access to U.S. markets | |
| - | 8 | | | | | | Development and Design | Reduced costs | |
| | 9 | | | | | | | Reduced lead times | |
| ŀ | 10 | | | | | | | Risk sharing | |
| | 11 | | | | | | | Shared/improved technology or skills | |
| | 12 | | | | | | | Other objective/purpose (explain) | |
| | 13 | | | | | | | | |
| | 14 | | | | | | | | |
| | 15 | | | | | | | | |
| | | | | | | | Joint Ventures | | |
| | From 2 | 014 - 2018, record the total n | umber of joint ventu | res and other business partner | ships related to front-end u | ranium fuel cycle | activities, including mining, millir | ng. conversion. | |
| | enrichn | nent, fuel fabrication, produc | t development and d | esign, and R&D, including publi | c/private partnerships, in v | vhich your organiz | ation participated. | | |
| | | | Toma of Inimb | % of Equity Held by | Outraliantina Countra | | | | |
| | | Organization Name | Type of Joint Venture | Organization | Organization Country Headquarters | Year Initiated | Primary Scope of Relationship | Primary Purpose of Relationship | Explain |
| - | 1 | | | | | | | | |
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| | | Comments. | | | | | | | |
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| | | | | | | | 3a: Facility Information U.S. Facilities | | | | | | | |
| | | | | | | | O.S. Facilities | | | | | | | |
| ldentif uraniu | fy the total number of facilities that m storage for third party materials, | your organization of , or R&D activities, i | urrently operates in t ncluding defense-relat | ne United States, including facili ed products or services. If a sing | ties that are standby/idle, invo le facility performs multiple fu | lved in the front-end uranium fuel cycle, nctions, list the facility on multiple lines a | including mining, milling, convers and identify each separately. | ion, enrichment, fuel fabrica | ation, product development, | | | | | |
| List | t your organization's facilities involv pansion, worker layoffs, shutdown, | ved in front-end ura etc.) from 2019-20 | nium fuel cycle activit 23. If the facility produ | ies, including mining, milling, co ced uranium in any form, repor | nversion, enrichment, or fuel father the 2018 production volume. | abrication, development & design, and R If a single facility provides multiple funct | &D, that are located in the Uniteriors, list the facility on separate I | I States, identifying each faci nes, and indicate the scope (| ility's name, city, state, scope of w of work and other relevant inform | ork, operating status, whe ation separately. | ther the work is defense-rel | ated, and any expecte | d change in operations (e.g. | |
| | | | | | | | | | | | | | | |
| | 11.5 5 - 11.5 - 11.5 - 1 | Cit. | Ch. h. | Comment Andrew | F. Wh. F. | | Operating Sta | | | Defense-Related | 2018 Production | Volume | 5 t. I St 2040 2000 | |
| | U.S. Facility Name | City | State | Scope of Activity | Facility Type | Operating Status | Start Date of Standby/Idle or Decommissioning | Projected Completion/Operation | Status of Operating Permit | Activities? | Product | Volume | Expected Change 2019-2023 | |
| 1 | | | | Mining | Surface - Open Pit Mining | Under development for future use | | | | | | | | |
| 2 | | | | Milling Conversion | Underground Mining In-Situ Mining | | | | | | | | | |
| 3 | | | | Enrichment | By Product Mining | | | | | | | | | |
| 5 | | | | Fuel Fabrication | Conversion | | | | | | | | | |
| 6 | | | | R&D | Gaseous Diffusion | | | | | | | | | |
| A. 7 | | | | Development and Design | Gas Centrifuge | | | | | | | | | |
| 8 | | | | Storage | Laser Separation | | | | | | | | | |
| 9 | | | | | Category 1 Fuel Facility | | | | | | | | | |
| 10 | , | | | | Category 3 Fuel Facility | | | | | | | | | |
| 11 | | | | | Mixed Oxide Fuel Fabrication | | | | | | | | | |
| 12 | | | | | Nonpower Reactor Fuel | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | 5 | | | | | | | | | | | | | |
| If a | any of your U.S. facilities are schedu | iled to close or may | | | | | | | | | | | | |
| | ose in the 2019-2023 period, explair this action. | the circumstances | | | | | | | | | | | | |
| | | | | | | | Non-U.S. Facilities | | | | | | | |
| | | | | | | , involved in the front-end uranium fuel on nctions, list the facility on multiple lines | | nversion, enrichment, fuel fa | abrication, product development, | | | | | |
| List | t your organization's facilities involverations (e.g. expansion, worker lay | ved in front-end ura yoffs, shutdown, etc | nium fuel cycle activit .) from 2019-2023. If | ies, including mining, milling, co he facility produces uranium in | nversion, enrichment, or fuel fa any form, report the 2018 prod | abrication facilities, development & desi duction volume. If a single facility provide | gn, and R&D, that are located ou es multiple functions, list the facil | side the United States, ident ty on separate lines, and ind | tifying each facility's name, city, co licate the scope of work and other | ountry, scope of work, oper relevant information sepa | rating status, whether the w rately. | ork is defense-related | and any expected change in | |
| | | | | | | | Operating Sta | tus | | | 2018 Production | Volume | | |
| | Non-U.S. Facility Name | City | Country | Scope of Activity | Facility Type | Operating Status | Start Date of Standby/Idle or Decommissioning | Projected Completion/Operation | Status of Operating Permit | Defense-Related Activities? | Product | Volume | Expected Change 2019-2023 | |
| 1 | | | | | | | | | | | | | | |
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| 7 8 9 10 11 12 13 14 15 | | heduled to close or | | | | | | | | | | | | |
| 7 8 9 10 11 12 13 14 15 | any of your non-U.S. facilities are sc | heduled to close or | | | | DIVIDITE CONFIDENTIAL | | | | | | | | |
| 7 8 9 10 11 12 13 14 15 | any of your non-U.S. facilities are sc ay close in the 2019-2023 period, eo | heduled to close or oplain the | | | | BUSINESS CONFIDENTIAL - | Per Section 705(d) of the Defens | e Production Act | | | | | | |

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| | | | | | | | | 3b: Undevel | oped Uranium Resources | | | | | | | |
| List an | y undeveloped uranium deposits h | eld by your organiza | tion, whether inside | the U.S. or outside the U. | S. | | | | | | | | | | | |
| If your | organization does not own any un | developed uranium | denosits inside the U | S or outside the U.S. nle | ease select 'Not Annlicable | a' and proceed to 3c | | | | | | | | | | |
| you. | organization does not own any an | acveloped dramam | acposits inside the o | .s. or outside the o.s., pr | case sereet (Not7)ppiicasie | and proceed to oc. | | | | | | | | | | |
| | | | | | | | | U.S. Ur | developed Deposits | | | | | | | |
| | U.S. Location Name | County | State | Deposit Size (Acres) | Recovery Method | Reserves | Measured Indicated | Inferred Resources | Estimated Per-Pound | | | ces by Forward Cost (| | Factors Affecting D | Development | Expected Required FTEs if |
| | O.S. Education Name | County | State | Deposit Size (Acres) | Recovery Method | Reserves | Resources (Pounds) | (Pounds) | Production Cost | Up to \$30 per Pound | Up to \$50 per Pound | Pound | Greater than \$100 Per Pound | Factor of Highest Impact | Degree of Impact | Developed |
| 1 | | | | | | | | | | | | | | Operations Costs | High | |
| 2 | | | | | | | | | | | | | | Regulatory Compliance (Non- Environmental) | Medium | |
| 3 | | | | | | | | | | | | | | Environmental Compliance | Low | |
| 5 | | | | | | | | | | | | | | Employment Costs Legal Costs | None | |
| 6 | | | | | | | | | | | | | | Uranium Spot Prices | | |
| A. 7 | | | | | | | | | | | | | | Other | | |
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| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| Are | e there any other factors impacting velop undeveloped U.S. deposits? I | your decision to f yes, describe. | | | | | | | | | | | | | | |
| | | | | | | | | Non-U.S. | Undeveloped Deposits | | | | | | | |
| | | | | | | | Moseurad Indicated | | | Total F | Reserves and Resourc | ces by Forward Cost (| Pounds) | Factors Affecting [| Development | Expected Dequired FTEs if |
| | Non-U.S. Location Name | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | Measured Indicated Resources (Pounds) | | Undeveloped Deposits Estimated Per-Pound Production Cost | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factors Affecting I | | Expected Required FTEs if Developed |
| 1 | Non-U.S. Location Name | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | | | | | Factor of Highest Impact | Degree of Impact | Expected Required FTEs if Developed |
| 1 2 | Non-U.S. Location Name | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | | | Expected Required FTEs if Developed |
| 1 2 | Non-U.S. Location Name | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance | Degree of Impact High | Expected Required FTEs if Developed |
| 3 | Non-U.S. Location Name | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs | Degree of Impact High Medium | Expected Required FTEs if Developed |
| 3 4 5 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 B. 8 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 B. 8 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 8. 8 9 10 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 8. 8 9 10 11 12 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 8. 8 9 10 11 12 13 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 8. 8 9 100 111 122 | | Municipality | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 8. 8 9 10 11 12 13 14 15 | | | Country | Deposit Size (Acres) | Recovery Method | Reserves | | Inferred Resources | Estimated Per-Pound | Up to \$30 per | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |
| 3 4 5 6 7 8 8 9 100 111 122 133 144 155 | | | Country | Deposit Size (Acres) | Recovery Method | Reserves | Resources (Pounds) | Inferred Resources (Pounds) | Estimated Per-Pound | Up to \$30 per Pound | Up to \$50 per | Up to \$100 Per | Greater than \$100 | Factor of Highest Impact Operations Costs Regulatory Compliance (Non-Environmental) Environmental Compliance Employment Costs Legal Costs Uranium Spot Prices | Degree of Impact High Medium Low | Expected Required FTEs if Developed |

Previous Page

3c: Changes in U.S. Facility Operations, 1999 - Present

Since 1999, identify any front-end uranium fuel cycle-related facility closings, relocations, contractions, expansions, corporate acquisitions or consolidations, or other major changes in operations (report as many as applicable). For each change, provide the location, type of facility, reasons for the change in operations (e.g., loss of market share to imports, loss/gain of market share from domestic competition, declining/increasing demand, low/high profitability, firm restructuring, other), and units of product impacted as well as number of full-time-equivalent (FIE) employees impacted. Denote reductions with a "-" symbol. If a single facility has gone through multiple changes, list the facility on multiple lines and identify each separately.

| Facility Name | Activity | Type of Change | Reason for Change | Date of Change | | Impacted Products | | FTEs Impacted | Explain |
|---------------|------------------------|---------------------------|-------------------|----------------|----------------|-------------------|--------------------------|---------------|---------|
| raciiity Name | Activity | Type of Change | Reason for Change | Date of Change | Type of Change | Product | Number of Impacted Units | | Ехрівін |
| | Mining | Closure | | | Increase | | | | |
| | Milling | Standby/Idle | | | Decrease | | | | |
| | Conversion | Relocation | | | No Change | | | | |
| | Enrichment | Contraction | | | | | | | |
| | Fuel Fabrication | Expansion | | | | | | | |
| | R&D | Expansion | | | | | | | |
| | Development and Design | Significant Modernization | | | | | | | |
| | | Transfer/Sale | | | | | | | |
| | | Deferred Production | | | | | | | |
| | | Other | | | | | | | |
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| 1 | + | | | + | + | | + | | |

Answer the following questions about facility changes for part B, regarding facilities that are completely shut down, and part C, regarding facilities that are in standby/idle. After completing parts B and C, proceed to part D.

If any of your organization's facilities are shut-down completely, how long would it take, if possible, to restart operations at that shutdown facility? For each facility that your organization operates, indicate the factors that might inhibit restarting operations and the degree of impact for each factor. Estimate the total costs associated with each factor, and then explain your reasoning for your choices.

| | Facility Name | Possible to Estimated Time to Restart Estimated Total Cost to Restart (in Factors Inhibiting | | | Estimated Cost of Each Factor \$1000s USD) | (in Explain | | |
|---|---------------|--|-----------|--------------|---|------------------|--------------|-------|
| | raciity Name | Restart? | (in days) | \$1000s USD) | Factor | Degree of Impact | \$1000s USD) | схрин |
| | | | | | Operations | High | | |
| | | | | | Regulatory Compliance (Non- Environmental) | Moderate | | |
| 1 | | | | | Environmental Compliance | Low | | |
| | | | | | Employment | None | | |
| | | | | | Legal | | | |
| | | | | | Other (specify) | | | |
| | | | | | Operations | | | |
| | | | | | Regulatory Compliance (Non- Environmental) | | | |
| 2 | | | | | Environmental Compliance | | | |
| | | | | | Employment | | | |
| | | | | | Legal | | | |
| | | | | | Other (specify) | | | |
| | | | | | Operations | | | |
| | | | | | Regulatory Compliance (Non- Environmental) | | | |
| 3 | | | | | Environmental Compliance | | | |
| | | | | | Employment | | | |
| | | | | | Legal | | | |
| | | | | | Other (specify) | | | |
| | | | | | Operations | | | |
| | | | | | Regulatory Compliance (Non- Environmental) | | | |
| 4 | | | | | Environmental Compliance | | | |
| | | | | | Employment | | | |
| | | | | | Legal | | | |
| | | | | | Other (specify) | | | |
| | | | | | Operations | | | |
| | | | | | Regulatory Compliance (Non- Environmental) | | | |
| 5 | | | | | Environmental Compliance | | | |
| | | | | | Employment | | | |
| | | | | | Legal | | | |
| | | | | | Other (specify) | | | |

11

| _ | | | |
|---------------|---|---|--|
| | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 6 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other (specify) | | |
| | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other (specify) | | |
| B | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 8 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other | | |
| | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 9 | Environmental Compliance | | |
| | Employment | + | |
| | Legal | | |
| | Other (specify) | | |
| | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 10 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other (specify) | | |
| | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 11 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other (specify) | | |
| | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 12 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other (specify) | | |
| | Operations | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 13 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other (specify) | | |
| | Operations (No. | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 14 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | Other (specify) | | |
| | Operations (No. | | |
| | Regulatory Compliance (Non- Environmental) | | |
| 15 | Environmental Compliance | | |
| | Employment | | |
| | Legal | | |
| | | | |
| | Other (specify) | | |

| Facility Name | Possible to Restart? | Estimated Time to Restar | Estimated Total Cost to Restart (in \$1000s USD) | Factors Inhibiting Re | | Estimated Cost of Each Factor | Explain |
|---------------|-------------------------|--------------------------|--|---|------------------|-------------------------------|---------|
| <u> </u> | Restart? | (in days) | \$ 1000s OSD) | Factor Operations | Degree of Impact | | · |
| | | | | Regulatory Compliance (Non- | | | |
| | | | | Environmental) | | | |
| | | | | Environmental Compliance Employment | | | |
| | | | | Legal | | | |
| | | | | Other (specify) | | | |
| | | | | Operations | | | |
| | | | | Regulatory Compliance (Non- Environmental) | | | |
| | | | | Environmental Compliance | | | |
| | | | | Employment | | | |
| | | | | Legal | | | |
| | | | | Other (specify) Operations | | | |
| | | | | | | | |
| | | | | Environmental) | | | |
| | | | | Environmental Compliance | | | |
| | | | | Employment Legal | | | |
| | | | | Other (specify) | | | |
| | | | | Operations | | | |
| | | | | Regulatory Compliance (Non- Environmental) | | | |
| | | | | Environmental Compliance | | | |
| | | | | Employment | | | |
| | | | | Legal | | | |
| | | | | Other (specify) | | | |
| | | | | Operations Regulatory Compliance (Non- | | | |
| | | | | Environmental) | | | |
| | | | | Environmental Compliance | | | |
| | | | | Employment | | | |
| | | | | Legal Other (specify) | | | |
| | | | | Operations | | | |
| | | | | Regulatory Compliance (Non- | | | |
| | | | | Environmental) | | | |
| | | | | Environmental Compliance Employment | | | |
| | | | | Legal | | | |
| | | | | Other (specify) | | | |
| | | | | Operations | | | |
| | | | | Regulatory Compliance (Non- Environmental) | | | |
| | | | | Environmental Compliance | | | |
| | | | | Employment | | | |
| | | | | Legal | | | |
| | | | | Other (specify) | | | |
| | | | | Operations Regulatory Compliance (Non- | | | |
| | | | | Environmental) | | | |
| | | | | Environmental Compliance | | | |
| | | | | Employment Legal | | | |
| | | | | Other (specify) | | | |
| | | | | Operations | | | |
| | | | | Regulatory Compliance (Non- Environmental) | | | |
| | | | | Environmental) Environmental Compliance | | | |
| | | | | Employment Employment | | | |
| | | | | Legal | | | |
| | | | | Other (specify) | | | |
| | | | | Operations | | | |
| | | | | Regulatory Compliance (Non- Environmental) | | | |
| | | | | Environmental Compliance | | | |
| | | | | Employment | | | |
| | | | | Legal | | | |

| | | Operations | | | | |
|--|---|---|-----------------------|-----|--|---|
| | | Regulatory Compliance (Non- Environmental) | | | | |
| 11 | | Environmental Compliance | | | | |
| | | Employment | | | | |
| | | Legal | | | | |
| | | Other (specify) | | | | |
| | | Operations | | | | |
| | | Regulatory Compliance (Non- Environmental) | | | | |
| 12 | | Environmental Compliance | | | | |
| | | Employment | | | | |
| | | Legal | | | | |
| | | Other (specify) | | | | |
| | | Operations | | | | |
| | | Regulatory Compliance (Non- | | | | |
| 40 | | Environmental) | | | | |
| 13 | | Environmental Compliance | | | | |
| | | Employment | | | | |
| | | Legal | | | | |
| | | Other (specify) | | | | |
| | | Operations | | | | |
| | | Regulatory Compliance (Non- Environmental) | | | | |
| 14 | | Environmental Compliance | | | | |
| | | Employment | | | | |
| | | Legal | | | | |
| | | Other (specify) | | | | |
| | | Operations | | | | |
| | | Regulatory Compliance (Non- Environmental) | | | | |
| 15 | | Environmental Compliance | | | | |
| | | Employment | | | | |
| | | Legal | | | | |
| | | Other (specify) | | | | |
| Answer the following questions about postponement of decomissioning, and the | e costs associated with maintaining facilities in standby/idle. | | | | | |
| | | | | | | |
| 1 If any of your facilities are in standby, have you filed for a postponement of decommissioning under 10 CFR § 40.42? | If yes, explain: | | | | | |
| D. 2 If any of your facilities are in standby, do you plan on filing for a postponement of decommissioning under 10 CFR § 40.42 in the future? | If yes, explain: | | | | | |
| 3 Describe the costs associated with maintaining a facility in standby. | | | | | | |
| Comments: | | | | | | |
| | BUSINESS | CONFIDENTIAL - Per Section 705(d) of the | he Defense Production | Act | | |
| | | | | | | • |

| evious Page | | | | | 4a: U.S. Productio | 1 | | | | | | Next |
|---|----------------|-------------------------------------|---------------------|-------------------------------------|--------------------|-------------------------------------|--------------------|-------------------------------------|------------------|-------------------------------------|-------------------|---------------------------------|
| ntify the quantity of each uranium type produced and arentheses next to each type, as well as the equivale | | | ies for the 2014 to | | rd the projected a | | our organization v | vill produce in 2019 | (estimates accep | ted). Record the amo | ounts in the meas | urements spec |
| Please select 'Not Applicable' if the below category of products below is not relevant to your organization. | | | | Oran | num Ore and Cond | entrates | | | | | | |
| Type of Uranium | 20 | 14 | 20 | 15 | 20 | 016 | 20 | 017 | 2 | 018 | 2019 (P | rojected) |
| HTS Code: 2612.10.00.00 | Pounds of U3O8 | Equivalent Amount of Kg U-235 | Pounds of U3O8 | Equivalent Amount of Kg U-235 | Pounds of U3O8 | Equivalent Amount of Kg U-235 | Pounds of U3O8 | Equivalent Amount of Kg U-235 | Pounds of U3O8 | Equivalent Amount of Kg U-235 | Pounds U3O8 | Equivalen Amount of U-235 |
| Uranium Ore (Pounds of U3O8) Uranium Concentrate (Pounds of U3O8) | | | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | Natura | l Uranium (Not Co | ompounds) | | 1 | | | | 1 |
| Please select 'Not Applicable' if the below category of products below is not relevant to your organization. | | | | | | | | | | | | |
| Type of Uranium | 20 | 14 | 20 |)15 | 20 | 016 | 20 | 017 | 2 | 018 | 2019 (P | rojected) |
| HTS Code: 2844.10.10.00 (Metal) HTS Code: 2844.10.50.00 (Other) | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivaler Amount of U-235 |
| Uranium Metal (Kg U) Other (Kg U) | | | | | | | | | | | | |
| Please select 'Not Applicable' if the below category of products below is not relevant to your organization. | | | | | Uranium Compou | nas | | | | | | |
| Type of Uranium | 20 | 14 | 20 | 15 | 20 | 016 | 20 | 017 | 2 | 018 | 2019 (P | rojected) |
| HTS Code: 2844.10.20 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalen Amount of U-235 |
| Uranium Compounds - Oxide (Kg U) Uranium Compounds - Hexafluoride (Kg U) Uranium Compounds - Other (Kg U) | | | | | | | | | | | | |
| oraliani compounds other (ng o) | | | | | Depleted Uraniu | ım | | <u> </u> | | | | |
| Please select 'Not Applicable' if the below category of products below is not relevant to your organization. | | | | | | | | | | | | |
| Type of Uranium | 20 | 14 | 20 | 15 | 20 | 016 | 20 | 017 | 2 | 018 | 2019 (P | rojected) |
| HTS Code: 2844.30.20 (Compounds and Other) HTS Code: 2844.30.50 (Metal) | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivaler Amount of U-235 |
| Depleted Uranium - Oxide (Kg U) Depleted Uranium - Fluorides (Kg U) | | | | | | | | | | | | |
| Depleted Uranium - Other (Kg U) Depleted Uranium - Metal (Kg U) | | | | | | | | | | | | |
| | | | | | Enriched Uraniu | m | | <u>'</u> | | | | |
| Please select 'Not Applicable' if the below category of products below is not relevant to your organization. | | | | | | | | | | | | |
| Type of Uranium | 20 | 14 | 20 |)15 | 20 | 016 | 20 | 017 | 2 | 018 | 2019 (P | rojected) |
| HTS Code: 2844.20.00 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivalent Amount of Kg U-235 | Kg U | Equivaler Amount of U-235 |
| Enriched Uranium - Oxide (Kg U) Enriched Uranium - Hexafluoride (Kg U) | | | | | | | | | | | | |
| Enriched Uranium - Other (Kg U) | | | | | | | | | | | | |
| | | | | | Fuel Assemblie | S | | | | | | |
| Please select 'Not Applicable' if the below category of products below is not relevant to your organization. | | | | | | | | | | | | |
| Type of Uranium | 20 | 14 | 20 |)15 | 20 | 016 | 20 | 017 | 2 | 018 | 2019 (P | rojected) |
| HTS Code: 8401.30.00.00 | Unit Specified | Equivalent Amount of Kg U-235 | Unit Specified | Equivalent Amount of Kg U-235 | Unit Specified | Equivalent Amount of Kg U-235 | Unit Specified | Equivalent Amount of Kg U-235 | Unit Specified | Equivalent Amount of Kg U-235 | Unit Specified | Equivaler Amount of U-235 |
| PWR (Finished Fuel Assembly Units) | | | | | | | | | | | | |
| Average Total LEU Contained in each PWR Fuel Assembly (KgU) PWR (Einiched Eugl Assembly Units) | | | | | | | | | | | | |
| BWR (Finished Fuel Assembly Units) Average Total LEU Contained in each BWR Fuel Assembly (KgU) | | | | | | | | | | | | |
| Other (Finished Fuel Assembly Units) (specify) | | | | | | | | | | | | |
| Assembly Office) Average Total LEU Contained in each Other Fuel Assembly (KgU) | | | | _ | | | | | | | | |
| Comments: | | | | | | | | | | | _ | |
| | | | | | | | | | | | | |



| Prev | ious | <u>Page</u> | | 4b: U.S. Production (Continued) | | | | | Next Page |
|-------|-------|---|--|--|--------------------------|-------------------------|---------------------------|---------------------------|------------------------|
| Ancı | vor t | he following questions about U.S. prod | luction and production canacity in par | | | | | | |
| Allsv | | | | s A and B below. | | | | | |
| | A | Answer the following regarding product | tion capacity of U.S. facilities. | | | | | | |
| | | If any of your organization's facilities at full capacity, describe the factor | es are not operating | | | | | | |
| | | influence a decision to increase pro | oduction to full | | | | | | |
| Α | . | capacity. | | | | | | | |
| | | Describe the sireumstances access | ated with producing | | | | | | |
| | | Describe the circumstances associa at full capacity, and explain how lo might take for your organization to | ong, on average, it | | | | | | |
| | | to full capacity. | o increase production | | | | | | |
| | | | | | | | | | |
| | For 2 | 2014 to 2018 operations at your U.S. fac e facility performs multiple functions, lis | ilities, provide the operating productions the facility on multiple lines and iden | n capacity, licensed production capacity, actual production, average marg | inal production cost per | unit (2018 only), and t | he average utilization ra | ate to maintain profitabi | lity (2018 only). If a |
| | _ | Facility Name | Uranium Type | Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | ŀ | racility Name | Oranium Type | Operating Production Capacity | 2014 | 2015 | 2016 | 2017 | 2016 |
| | 1 | | | Licensed Production Capacity Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit | | | | | |
| | | Facility Name | Uranium Type | Average Utilization Rate Required to Maintain Profitability Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | , | ,, | Operating Production Capacity | | | | | |
| | 2 | | | Licensed Production Capacity Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit | | | ' | • | |
| H | | Facility Name | Uranium Type | Average Capacity Needed to Maintain Profitability Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | Operating Production Capacity Licensed Production Capacity | | | | | |
| | 3 | | | Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit Average Utilization Rate Required to Maintain Profitability | | | | | |
| | | Facility Name | Uranium Type | Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | Operating Production Capacity Licensed Production Capacity | | | | | |
| | 4 | | | Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit Average Utilization Rate Required to Maintain Profitability | | | | | |
| | | Facility Name | Uranium Type | Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | Operating Production Capacity Licensed Production Capacity | | | | | |
| | 5 | | | Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit Average Utilization Rate Required to Maintain Profitability | | | | | |
| Ī | | Facility Name | Uranium Type | Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 6 | | | Operating Production Capacity Licensed Production Capacity | | | | | |
| | U | | | Actual Production Average Marginal Production Cost per Unit | | | | | |
| | | | | Average Utilization Rate Required to Maintain Profitability | | | | | |
| | H | Facility Name | Uranium Type | Production and Inventory Operating Production Capacity | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 7 | | | Licensed Production Capacity | | | | | |
| | | | | Actual Production Average Marginal Production Cost per Unit | | | | | |
| | | 5 111 11 | | Average Utilization Rate Required to Maintain Profitability | 2011 | 2015 | 2011 | 0047 | 2212 |
| B. | H | Facility Name | Uranium Type | Production and Inventory Operating Production Capacity | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 8 | | | Licensed Production Capacity Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit | | | | | |
| | | Facility Name | Uranium Type | Average Utilization Rate Required to Maintain Profitability Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | , | | Operating Production Capacity | | | | | |
| | 9 | | | Licensed Production Capacity Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit | | | | | |
| | | Facility Name | Uranium Type | Average Utilization Rate Required to Maintain Profitability Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | Operating Production Capacity Licensed Production Capacity | | | | | |
| | 10 | | | Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit Average Utilization Rate Required to Maintain Profitability | | | | | |
| | | Facility Name | Uranium Type | Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 14 | | | Operating Production Capacity Licensed Production Capacity | | | | | |
| | 11 | | | Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit Average Utilization Rate Required to Maintain Profitability | | | | | |
| | | Facility Name | Uranium Type | Production and Inventory Operating Production Capacity | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 12 | | | Licensed Production Capacity | | | | | |
| | | | | Actual Production Average Marginal Production Cost per Unit | | | | | |
| | | F | | Average Utilization Rate Required to Maintain Profitability | 2011 | 2015 | 2011 | | 2010 |
| | | Facility Name | Uranium Type | Production and Inventory Operating Production Capacity | 2014 | 2015 | 2016 | 2017 | 2018 |
| | 13 | | | Licensed Production Capacity Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit | | | | | |
| | | Facility Name | Uranium Type | Average Utilization Rate Required to Maintain Profitability Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | . demey reame | Oranium Type | Operating Production Capacity | 2014 | 2013 | 2010 | 2017 | 2010 |
| | 14 | | | Licensed Production Capacity Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit | | · | 1 | | |
| | | Facility Name | Uranium Type | Average Utilization Rate Required to Maintain Profitability Production and Inventory | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | Operating Production Capacity | | | | | |
| | 15 | | | Licensed Production Capacity Actual Production | | | | | |
| | | | | Average Marginal Production Cost per Unit Average Utilization Rate Required to Maintain Profitability | | | | | |
| | | | | | | | | | |
| | | Comments: | | | | | | | |
| | | | | BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defen | se Production Act | | | | |
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4c: U.S. Production (Continued) For U.S. operations, provide the U.S. sales and export sales data for the 2014 to 2018 period for the below products. Include projected data for 2019 (estimates accepted). Sales includes shipments, book transfers, swaps, and trades. Record \$ in Thousands USD, e.g. \$12,000.00 = survey input of \$12 Uranium Type U.S. and Export Sales 2014 2015 2016 2017 2018 2019 (Projected) U.S. Sales (Units) 1 U.S. Sales (\$) Export Sales (Units) Export Sales (\$) U.S. and Export Sales Uranium Type 2014 2015 2016 2017 2018 2019 (Projected) U.S. Sales (Units) U.S. Sales (\$) 2 Export Sales (Units) Export Sales (\$) 2016 U.S. and Export Sales 2014 2015 2018 2019 (Projected) Uranium Type 2017 U.S. Sales (Units) 3 U.S. Sales (\$) Export Sales (Units) Export Sales (\$) Uranium Type U.S. and Export Sales 2018 2019 (Projected) U.S. Sales (Units) U.S. Sales (\$) Export Sales (Units) Export Sales (\$) U.S. and Export Sales 2014 2015 2016 2017 2018 2019 (Projected) Uranium Type U.S. Sales (Units) U.S. Sales (\$) 5 Export Sales (Units) Export Sales (\$) Uranium Type U.S. and Export Sales 2014 2015 2016 2017 2018 2019 (Projected) U.S. Sales (Units) U.S. Sales (\$) Export Sales (Units) Export Sales (\$) U.S. and Export Sales 2015 2016 2018 2019 (Projected) Uranium Type 2014 2017 U.S. Sales (Units) U.S. Sales (\$) Export Sales (Units) Export Sales (\$) U.S. and Export Sales 2014 2015 2016 2017 2018 2019 (Projected) **Uranium Type** U.S. Sales (Units) U.S. Sales (\$) 8 Export Sales (Units) Export Sales (\$) Uranium Type U.S. and Export Sales 2014 2015 2016 2017 2018 2019 (Projected) U.S. Sales (Units) U.S. Sales (\$) Export Sales (Units) Export Sales (\$) 2018 U.S. and Export Sales 2014 2015 2016 2017 2019 (Projected) Uranium Type U.S. Sales (Units) 10 U.S. Sales (\$) Export Sales (Units) Export Sales (\$) U.S. and Export Sales Uranium Type 2014 2015 2016 2017 2019 (Projected) U.S. Sales (Units) 11 U.S. Sales (\$) Export Sales (Units) Export Sales (\$) U.S. and Export Sales Uranium Type 2014 2015 2016 2017 2018 2019 (Projected) U.S. Sales (Units) 13 U.S. Sales (\$) Export Sales (Units) Export Sales (\$) Uranium Type U.S. and Export Sales 2014 2015 2016 2017 2018 2019 (Projected) U.S. Sales (Units) 13 U.S. Sales (\$) Export Sales (Units) Export Sales (\$) Uranium Type U.S. and Export Sales 2015 2016 2017 2018 2019 (Projected) U.S. Sales (Units) 14 U.S. Sales (\$) Export Sales (Units) Export Sales (\$) 2019 (Projected) U.S. and Export Sales 2014 2015 2016 2017 2018 Uranium Type U.S. Sales (Units) U.S. Sales (\$) 15 Export Sales (Units) Export Sales (\$) Comments: BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

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Previous Page 4d: Inventory and Production Capacity Answer the following questions about your organization's uranium bearing product inventory for the 2014 to 2018 period. Record inventory information for the end of the given calendar year, and only include inventory for which your organization has title. Do not record inventory information that is designated for a third party. **Location of Inventory** Average Length of Time in Type of Product in Inventory at any Facility **Average Amount in Inventory** Inventory (in days) U.S. Location (State) Non-U.S. Location (Country) 1 2 3 4 5 6 1 8 10 11 12 13 14 15 Does your organization have an excess of source materials or enriched materials beyond normal business needs? If yes, explain the factors contributing to the excess in inventory, and include whether the location of the inventory is primarly U.S. or Non-U.S. based. Explain what impact this has had on your business operations. Comments: BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act



| | | | inancials | | | |
|------------------------------|--|----------------------|-----------------------|-------------------------|-----------------------|----------------|
| rovide the fo 018 period. | llowing financial line items for your or | ganization's uranium | n and nuclear fuel pr | ocessing-related U. | S. operations below | for the 2014 t |
| A. Inco | ome Statement (Select Line Items) | R | ecord \$ in Thousan | ds, e.g. \$12,000.00 | = survey input of \$1 | 12 |
| Α. Πιου | while statement (select line items) | 2014 | 2015 | 2016 | 2017 | 2018 |
| 1 Net Sales | (and other revenue) | | | | | |
| 2 Cost of G | oods Sold | | | | | |
| 3 Total Ope | erating Income (Loss) | | | | | |
| 4 Earnings | Before Interest and Taxes | | | | | |
| 5 Net Incor | ne | | | | | |
| Rala | nce Sheet (Select Line Items) | R | ecord \$ in Thousand | ds, e.g. \$12,000.00 | = survey input of \$1 | 12 |
| Dala | nice sheet (select Line items) | 2014 | 2015 | 2016 | 2017 | 2018 |
| 6 Cash | | | | | | |
| 7 Inventori | es | | | | | |
| 8 Total Cur | rent Assets | | | | | |
| 9 Total Ass | ets | | | | | |
| 10 Total Cur | rent Liabilities | | | | | |
| 11 Total Liak | pilities | | | | | |
| 12 Retained | Earnings | | | | | |
| 13 Total Ow | ner's Equity | | | | | |
| ote: Total As | sets must equal Total Liabilities plus T | otal Owner's Equity. | | | | |
| | | | | | | |
| B. Answer t | he following questions related to your | organization's urani | um and nuclear fue | l processing-related | tax expenditures. | |
| | | 2014 | 2015 | 2016 | 2017 | 2018 |
| 1 Federal T | | | | | | |
| 2 State Tax | | | | | | |
| 3 Local Tax | es Paid | | | | | |
| Come | | | | | | |
| Comi | nents: | | | | | |
| | DI ICINITEC CONT | FIDENTIAL - Per Sect | ion 705/d\ -f+b- D | ofoneo Due dirette ii 1 | \ a+ | |

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|------|---|--|---|---|--|--|
| | | 6: Capital Expenditure | es | | | |
| Rec | ord your organization's uranium and nuclear fuel processing-related capital expenditures | corresponding to the select o | rategories below for the 2014 | to 2018 period. | | |
| | Capital Expenditure Activity Type | | Record \$ in Thousand | s, e.g. \$12,000.00 = sur | vey input of \$12 | |
| | | 2014 | 2015 | 2016 | 2017 | 2018 |
| A | Total Capital Expenditures | | | | | |
| 1 | Machinery, Equipment, and Vehicles [as a % of A] | | | | | |
| 2 | IT, Computers, Software [as a % of A] | | | | | |
| 3 | Land, Buildings, and Leasehold Improvements [as a % of A] | | | | | |
| | Other (Specify) [as a % of A] | | | | | |
| , | , | | | | | |
| Line | es 1 through 5 must total 100% | | | | | |
| | For the below categories, indicate whether your organization experienced significant cha Explain what factors have been affecting changes in your organization's capital expenditu foreign competition, and declining uranium prices. | inges (increases, decreases, o ires from 2009 to 2018, includ | r both), in uranium and/or nu ling, but not limited to, U.S. (| iclear fuel capital exper Government or state go | nditures over the past ten overnment policies or rego | years (2009-2018). Jlations, domestic and |
| В | | Yes/No | If Yes, Type of Change | | Explain | |
| | 1 Machinery, Equipment, and Vehicles | | | | | |
| | 2 IT, Computers, Software | | | | | |
| | 3 Land, Buildings, and Leasehold Improvements | | | | | |
| | 4 Other (Specify) | | | | | |
| | 5 Other (Specify) | | | | | |
| | Comments: | | , | | | |
| | BUSINESS CONFIDE | NTIAL - Per Section 705(d) of | the Defense Production Act | | | |

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|----------|------------|--|---|--|---|--|--------------------|--|--------------------|---------------------------------|--|--|--|--|
| Α. | Has and | your organization conducted ura development (R&D) in the past t | anium and/or nuclear fuel proc en years? | essing-related research | 7: K | lesearch & Developm If no, proceed to Sec | | | | | | | | |
| Reco | ord y | our organization's total R&D dolla | ar expenditures and type of R& | D expenditure for the 20 | 14 to 2018 period. | | | | | | | | | |
| | | | | 201 | 14 | Reco 20 | | e.g. \$12,000.00 = survey input of 2016 | \$12 2017 | 2018 | | | | |
| | 1 | Total R&D Expenditures | | 202 | ., | | | 2010 | 2017 | 2010 | | | | |
| _ | 2 | Basic Research [as a % of B1] | | | | | | | | | | | | |
| B. | 3 | Applied Research [as a % of B1] | | | | | | | | | | | | |
| | 4 | Product/Process Development [| [as a % of B1] | | | | | | | | | | | |
| | 5 | Total of 2 - 4 [must equal 100%] | | 0% | 6 | 09 | 6 | 0% | 0% | 0% | | | | |
| Iden | tify y | our organization's R&D funding s | sources, by percent total of R& | D dollars sourced. | | | | | | | | | | |
| | | | | 201 | 14 | Reco 20 | | e.g. \$12,000.00 = survey input of 2016 | \$12 2017 | 2018 | | | | |
| | 1 | Total R&D Funding Sources | | 201 | 14 | 20 | 13 | 2010 | 2017 | 2016 | | | | |
| | | Internal/Self-Funded/IRAD [as a | % of C1] | | | | | | | | | | | |
| c. | | Total Federal Government [as a s | | | | | | | | | | | | |
| <u> </u> | _ | Total State and Local Governme | | | | | | | | | | | | |
| | | Universities - Public and Private | | | | | | | | | | | | |
| | | U.S. Industry, Venture Capital, N | | | | | | | | | | | | |
| | | Non-U.S. Investors (as a percent of Other | (specify here) | | | | | | | | | | | |
| | - | Total of 2 - 8 (must equal 100%) | | 0% | 6 | 0 | 6 | 0% | 0% | 0% | | | | |
| | Ė | | | | | | - | | | | | | | |
| D. | 1 | For 2014 to 2018, did your organization experience constraints (for example, inadequate revenue) on U.S. R&D activities? | | If yes, explain and identify additional R&D activities that would occur absent those constaints. | | | | | | | | | | |
| | From | n 2009 to 2018, list any U.S. expl ding application. Include the regu | oration, drilling, mining, uraniculatory authority granting the p | mining, uranium recovery applications, or other permits (Federal, State, or Local) relating to the nuclear fuel cycle that your organization currently owns, or for which your organization currently he granting the permit, the type and description of the permit, the design type of the facility, the application date, the application status, and the location of the facility. | | | | | | | | | | |
| | | Regulatory Authority | Type of Permit | Permit Description | Full Length of Permitting Process (Years) | Total Estimated Cost of Permitting Process | Design Type | Application Date | Application Status | Facility Location (City, State) | | | | |
| | 1 | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | |
| E. | 3 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | |
| | 9 | | | | | | | | | | | | | |
| L | 10 | | | | | | | | | | | | | |
| D. | obst | your organization encountered cacles with the permitting cess? | | If yes, indicate the type of | of difficulty and explain | below. | | | | | | | | |
| | | Explain: | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| E. | fees | e your licensing or permitting increased in the last five rs? If so, explain. | | | | | | | | | | | | |
| - | Doe | s your organization have any | | | | | | | | | | | | |
| F. | imp | gestions that would help rove the permitting process? | | | | | | | | | | | | |
| | | Comments: | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| L | | | | BUSII | NESS CONFIDENTIAL - I | Per Section 705(d) of | the Defense Produc | tion Act | | | | | | |

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Section 8: Imports

In Section 8 you will be asked to identify the suppliers, country of origin, manufacturer, end use, value, and volume for imports of uranium products. This information is subcategorized by different combinations of imports and end users and end users. For the purpose of this survey, the different combinations of imports and end users of import subcategories have been divided into 6 general categories, as detailed below.

The list below contains links that can move you to a particular product and/or service segment. **Identify each general category in which your organization imports uranium products.** After completing this page you may skip to the sections with the import category that are applicable to your organization, but be sure to review all segments to ensure you do not omit any required information.

Imports categorized under each subcategory:

Subcategories A: Only complete if your organization provides milling services. List any uranium material imported into the U.S. that your organization receives for milling services. Subcategory A should include both material imported into the U.S. that is then re-exported out of the U.S. after milling services are completed and material imported into the U.S. for milling services that then stays in the U.S. after milling services are completed.

Subcategories B: Only complete if your organization provides conversion services. List any uranium material imported into the U.S. that your organization receives for conversion services. Subcategory B should include both material imported into the U.S. that is then re-exported out of the U.S. after conversion services are completed and material imported into the U.S. for conversion services that then stays in the U.S. after conversion services are completed.

Subcategories C: Only complete if your organization provides enrichment services. List any uranium material imported into the U.S. that your organization receives for enrichment services. Subcategory B should include material imported into the U.S. that is then re-exported out of the U.S. after enrichment services are completed and material imported into the U.S. for enrichment services that then stays in the U.S. after enrichment services are completed.

Subcategories D: Only complete if your organization provides fuel fabrication services. List any uranium material imported into the U.S. that your organization receives for fuel fabrication services. Subcategory C should include material imported into the U.S. that is then re-exported out of the U.S. after fuel fabrication services are completed and material imported into the U.S. for fuel fabrication services that then stays in the U.S. after fuel fabrication services are completed.

Subcategory E: Only complete if your organization has imported uranium into the U.S. for the sole purpose of increasing commercial inventory and/or for market resale.

Subcategory F: Only complete if your organization has imported uranium into the U.S. for any other reason not previously covered.

| Subcategory | Product and Service Category | Applicable To Your Organization |
|-------------|---|---------------------------------|
| Α | <u>Uranium imported into the U.S. for milling services.</u> | |
| В | <u>Uranium imported into the U.S. for conversion services.</u> | |
| С | <u>Uranium imported into the U.S. for enrichment services.</u> | |
| D | <u>Uranium imported into the U.S. for fuel fabrication services.</u> | |
| E | <u>Uranium imported into the U.S. for commercial inventory and/or market resale.</u> | |
| F | <u>Uranium imported into the U.S. for any form for a reason not previously covered.</u> | |
| | BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act | |

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|-------------------|--|-------------------------------|----------------------------------|--|--|--|--|---|-----------------------------------|---|----------------------------------|--------------------------------------|-------------------------------------|--|------------------------------------|--|-----------------------------------|
| U.S. fo | complete if your organization provides or milling services that stays in the U.S. rs and/or traders that your organization | after milling services are co | mplete for final use, identify | at was imported into the U.S. for milling so the suppliers and the subsequent country | ervices which is then re-exp origin of the material for e | ported to a foreign each of the below p | country for final use, identify the s | suppliers and the subsequent ad. If the material is received l | country origin by book transfe | of the material fo er or flag swap fro | r each of the b m the same or | elow products fo ganization, reco | or the 2014 to 2 rd the informat | 018 period. If yo ion on separate I | ur organization ines. Exporting | receives uranium that was in organizations should include | ported into the any individual |
| uraniu fuel cy | r organization does not import ım in any form for use in the nuclear ıcle, please select "Not Applicable" roceed to Section 8B. | | | | | | | | | | | | | | | | |
| PI FASE | E NOTE THE UNITS OF MEASURE IN THE | HEADINGS, E.G. URANIUM | ORE SHOULD BE RECORDED | IN POUNDS. | | | | | | | | | | | | | |
| | | | | | | | Uranium Ore (Pounds) | | | | | | | | | | |
| Identif | fy your organization's total number of s | suppliers for Uranium Ore. | | | | | Oranium Ore (Pounds) | | | | | | | | | | |
| Where | e necessary, input 0. | | | | | | | | | | | | | | | | |
| A | Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | | Value (\$USD) | Units 2 | Value (\$USD) | Units 20 | Value (\$USD) | Units 20 | | Value (\$USD) |
| 1 | ı I | | | | | Yes | | Commercial | | . , | | . , | | . , | | / | . , |
| 2 | | | | | | No | | Research | | | | | | | | | |
| 3 | | | | | | | | S. Government (Non-defense) U.S. Government (Defense) | | | | | | | | | |
| 5 | | | | | | | | Other | | | | | | | | | |
| 6 | 5 | | | | | | | Unknown | | | | | | | | | |
| 7 | 7 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0 | | | | | | | | | | | | | | | | |
| | | | | | | Ur | anium Concentrate (Pounds U3O8) |) | | | | | | | | | |
| Identif Conce | fy your organization's total number of s ntrate. Where necessary, input 0. | suppliers for Uranium | | | | | | | | | | | | | | | |
| | 6 P | | Country of Uranium Ore | Manufacturer/Processor (if different | EL 6 3 | 2 10 2 | If re-exported outside of the | 5.111 | 2 | 014 | 2 | 15 | 20 | 016 | 20 | 17 | 2018 |
| | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) Units | Value (\$USD) |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| В 4 | 1 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0 | | | | | | | | | | | | | | | | |
| Identif | fy your organization's total number of s | suppliers for Uranium | | | | | Uranium Metal (KgU) | | | | | | | | | | |
| Metal. | . Where necessary, input 0. | suppliers for Oranium | | | | | | | | | | | | | | | |
| | o " | | Country of Uranium Ore | Manufacturer/Processor (if different | EL 6 3 | | If re-exported outside of the | E 111 | 2 | 014 | 20 |)15 | 20 | 016 | 20 | 17 | 2018 |
| | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) Units | Value (\$USD) |
| 1 | l | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| c 4 | | | | | | | + | | | | | | | | | | + |
| 5 | 5 | | | | | | | | | | | | | | | | |
| 6 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | 0 | | | | | | | | | | | | | | | | |
| Identif | fy your organization's total number of s | suppliers for Natural | 1 | | | Natu | ıral Uranium - Not Compounds (Kg | U) | | | | | | | | | |
| Uraniu | um - Not Compounds. Where necessary | y, input 0. | | | | | | | | | | | | | | | |
| | o " | | Country of Uranium Ore | Manufacturer/Processor (if different | EL 6 3 | | If re-exported outside of the | E 111 | 2 | 014 | 20 | 15 | 20 | 016 | 20 | 17 | 2018 |
| | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) Units | Value (\$USD) |
| 1 | I I | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | |
| D 4 | | | | | | | | | | | | | | | | | + |
| 5 | 5 | | | | | | | | | | | | | | | | + |
| 6 | 5 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | 1 |
| 8 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 10 | | 1 | II. | 1 | | 1 | ı I | | | | | | | | | | |

| | | | | | l | Jranium Compounds - Oxide (Kg | (U) | | | | | | | | | | |
|---|---|-------------------------------|--|------------|------------|---|---------------|-------------|----------------------|-------------|---------------------|-------------|----------------------|-------|----------------------|------------|--------------|
| r organization's total num | ber of suppliers for Uranium | | | | | | | | | | | | | | | | |
| - Oxide. Where necessary | r, input 0. | | | | | | | | | | | | | | | | |
| | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 20 | 014 | 20 | 15 | 2 | 016 | 20 | 017 | 2 | 018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | | | | | | | | | | |
| | | | | | | use | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$ |
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| | | | | | Urar | nium Compounds - Hexafluoride | (KgU) | | | | | | | | | | |
| r organization's total num | ber of suppliers for Uranium | | | | | | | | | | | | | | | | |
| - Hexafluoride. Where ne | cessary, input 0. | | | | | | | | | | | | | | | | |
| - " | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 20 | 014 | 20 | 15 | 2 | 016 | 20 | 017 | 2 | 018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value |
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| | | | | | | Jranium Compounds - Other (Kg | (U) | | | | | | | | | | |
| ir organization's total num s - Other. Where necessary | ber of suppliers for Uranium | | | | | | | | | | | | | | | | |
| <u>'</u> | | | | | | | | 20 | 014 | 20 | 15 | 2 | 016 | 20 | 017 | 2 | 018 |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | | | | | | | | | |
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| | | | | | | Depleted Uranium - Oxide (KgL | J) | | | | | | | | | | |
| ır organization's total num | ber of suppliers for Depleted | | | | | Depleted Uranium - Oxide (KgU |)) | | | | | | | | | | |
| ır organization's total num Ixide. Where necessary, in | ber of suppliers for Depleted put 0. | | | | | Depleted Uranium - Oxide (KgL |) | | | | | | | | | | |
| oxide. Where necessary, in | put 0. | Country of Heavium Ore | Manufachurer/Processor (if different | | | If re-exported outside of the | | 20 | 014 | 20 | 15 | 2 | 016 | 20 | 017 | 2 | 018 |
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| oxide. Where necessary, in | put 0. | | | Flag Swap? | | If re-exported outside of the | | | | | | | | | | | |
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| oxide. Where necessary, in | put 0. | | | Flag Swap? | | If re-exported outside of the U.S., provide country of final | | | | | | | | | | | |
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| oxide. Where necessary, in | put 0. | | | Flag Swap? | | If re-exported outside of the U.S., provide country of final | | | | | | | | | | | |

| | | | | | | Depleted Uranium - Fluorides (K | gU) | | | | | | | | | | |
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| fy your organization's total number | or of cumplions for Donloted | | | | | repicted oranium Traditaes (K | 60) | | | | | | | | | | |
| um - Fluorides. Where necessary, | input 0. | | | | | | | | | | | | | | | | |
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| C | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | David Comma | If re-exported outside of the | End-Use | - | .011 | | 725 | | | | ,1, | - | .010 |
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| fy your organization's total number um - Other, Where necessary, inp | er of suppliers for Depleted | | | | | | | | | | | | | | | | |
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| | ' | • | | | | Depleted Uranium - Metal (Kgl | J) | • | | | | | | | | | |
| fy your organization's total number | or of suppliars for Doplotod | | | | | | | | | | | | | | | | |
| um - Metal. Where necessary, inp | ut 0. | | | | | | | | | | | | | | | | |
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| | | | | | Er | riched Uranium Hexafluoride (KgU) | | | | | | | | | | | |
|---|---------------------------------------|----------------------------------|--|------------|-------------------|--|--------------------|-------|----------------------|------------|---------------|--------|-----------------------|----------|---------------|------------|-------------------|
| tify your organization's total number nium - Hexafluoride. Where necessa | er of suppliers for Enriched | | | | | | | | | | | | | | | | |
| | | | | | | If re-exported outside of the | | | 014 | 2 | 015 | | 2016 | 20 | 017 | 2 | 018 |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$US |
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| | • | | | | | Enriched Uranium - Other (KgU) | | • | | | | | | | | | |
| tify your organization's total number ium - Other. Where necessary, inp | er of suppliers for Enriched ut 0. | | | | | | | | | | | | | | | | |
| | Exporting Organization | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 2 | 014 | 2 | 015 | | 2016 | 20 | 017 | 2 | 018 |
| Supplier | Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$l |
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| | (" (5) | | | | Fuel Assen | iblies (PWR, BWR, or Other) (Finish | ed Units) | | | | | | | | | | |
| ify your organization's total numbe nblies. Where necessary, input 0. | | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | Units | 014 Value (\$USD) | 2 Units | Value (\$USD) | Units | 2016 Value (\$USD) | Units 20 | Value (\$USD) | 2 Units | 018 Value (\$U |
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| Comments: | | | | | | | | | | | | | | | | | |
| | | | | В | ISINESS CONFIDENT | TAL - Per Section 705(d) of the Defe | nse Production Act | | | | | | | | | | |

Previous Page Next Page 8b: Imports - Conversion Services Only complete if your organization provides conversion services. If your organization receives uranium that was imported into the U.S. for conversion services are complete for final use, identify the suppliers and the subsequent country origin of the material for each of the below products for the 2014 to 2018 period. If the material is received by book transfer or flag swap from the same organization, record the information on separate lines. Exporting organizations in solud include any individual brokers and/or transfer shat your organization purchases uranium products from. If this category of imports is not relevant to your organization, please select 'Not Applicable' and proceed to section Section 8cC PLEASE NOTE THE UNITS OF MEASURE IN THE HEADINGS. E.G. URANIUM ORE SHOULD BE RECORDED IN POUNDS. Uranium Ore (Pounds) Identify your organization's total number of suppliers for Uranium Ore. Where necessary, input 0. 2014 2015 2016 2017 2018 If re-exported outside of the U.S., provide country of final Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? Book Swap? End-Use Origin from exporting company) Units Value (\$USD) use Yes Commercial No Research Government (Civilian) Government (Defense) Other 10 Uranium Concentrate (Pounds U3O8) Identify your organization's total number of suppliers for Uranium Concentrate. Where necessary, input 0. If re-exported outside of the 2014 2015 2016 2017 2018 Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? Book Swap? U.S., provide country of final use Fnd-Use Origin from exporting company) Value (\$USD) Value (\$USD) Units Value (\$USD) Units Value (\$USD) Units Value (\$USD) Uranium Metal (KgU) Identify your organization's total number of suppliers for Uranium Metal. Where necessary, input 0. 2017 2018 If re-exported outside of the 2014 2015 2016 Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? Book Swap? End-Use U.S., provide country of final from exporting company) Value (\$USD) Units Value (\$USD) Units Value (\$USD) Value (\$USD) Units Value (\$USD) Natural Uranium - Not Compounds (KgU) Identify your organization's total number of suppliers for Natural Uranium - Not Compounds. Where necessary, input 0. 2014 2015 2016 2017 2018 If re-exported outside of the Country of Uranium Ore Manufacturer/Processor (if different Supplier Headquarters Flag Swap? Book Swap? U.S., provide country of final End-Use Supplier Origin from exporting company) Value (\$USD) Value (\$USD) Value (\$USD) Value (\$USD) Units Value (\$USD)

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| | | | | | | | Uranium Compounds - Oxide (Kg | gU) | | | | | 4 | | | | | |
|------------------|---|------------------------|------------------------|--------------------------------------|-------------|-------------|---|---------|---------------|---------------|-------------|------------------|-------------|---------------|----------------|-----------------------------------|-------|---------------|
| Identify your or | organization's total number of s Oxide. Where necessary, input | suppliers for Uranium | 4 ' | | | | | | | | | | | | | | | |
| Compounds | Aide. Where necessary, input | 4. | | | | | | | 4 | | | | 4 | | | | 4 | |
| | Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | 2014 | | 2015 | | 2016 | | 2017 | | 2018 |
| | эприс. | Supplier reduction | Origin | from exporting company) | Tiag Strap | DOC. SIL. | use | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| dentify your o | organization's total number of s | suppliers for Uranium | | | | | | | | | | | | | | | | |
| Compounds - H | Hexafluoride. Where necessary | ,, input 0. | 4 | | | | | | | | | | | | | | | |
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| 10 | | | | | | | Uranium Compounds - Other (Kg | kgU) | | | | | | | | | | |
| Identify your o | organization's total number of s | suppliers for Uranium | | | | | | | | | | | | | | | | |
| Compounds - C | Other. Where necessary, input | .0. | 4 | | | | | | | | | | | | | | | |
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| | | | | | | | Depleted Uranium - Oxide (KgL | ,u) | | | | | | | | | | |
| Identify your o | organization's total number of s | suppliers for Depleted | 4 | | | | | | | | | | | | | | | |
| Uranium - Oxid | ide. Where necessary, input 0. | | 4 : | | | | | | | | | | | | | | | |
| | | | Country of Uranium Ore | Manufacturer/Processor (if different | | 4 | If re-exported outside of the | | 20 | 2014 | 25 | 2015 | 25 | 2016 | 20 | 2017 | 21 | 2018 |
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| | | | | | | | Depleted Uranium - Fluorides (K | (gU) | | | | | | | | | | |
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| tify you | ur organization's total number of Fluorides. Where necessary, inpu | suppliers for Depleted | | | | | | | | | | | | | | | | |
| | raoriaes: vinere necessary, inpa | | | | | | | | | | | | | | | | | |
| | Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | 014 | | 015 | | 016 | 20 | | 2 | 018 |
| | заррне | Supplier Fredudus (CFS | Origin | from exporting company) | riag swap. | Book Swap. | use | 2110 030 | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| | | | | | | | Depleted Uranium - Other (Kg | U) | | | | | | | | | | |
| ify you | ur organization's total number of | suppliers for Depleted | | | | | | | | | | | | | | | | |
| nium - C | Other. Where necessary, input 0. | | | | | | | | | | | | | | | | | |
| | Complian | Compliant Landaux at an | Country of Uranium Ore | Manufacturer/Processor (if different | Flor Summ? | Deals Cours | If re-exported outside of the | Fud Hea | 20 | 014 | 20 | 015 | 2 | 016 | 20 | 17 | 2 | 018 |
| | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| | | | | | | | Depleted Uranium - Metal (Kg | U) | | | | | | | | | | |
| ntify you | ur organization's total number of | suppliers for Depleted | | | | | | | | | | | | | | | | |
| nium - N | Metal. Where necessary, input 0. | | | | | | | | | | | | | | | | | |
| | | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 20 | 014 | 20 | 015 | 2 | 016 | 20 | 17 | 2 | 018 |
| | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| 10 | | | | | | | Enriched Uranium Oxide (KgU | 1) | | | | | | | | | | |
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| ntify you | ur organization's total number of | suppliers for Enriched | | | | | | | | | | | | | | | | |
| ntify you | ur organization's total number of Oxide. Where necessary, input 0. | suppliers for Enriched | | | | | | | | | | | | | | | | |
| ntify you | Oxide. Where necessary, input 0. | | Country of Uranium Ore | Manufacturer/Processor (if different | Fl. C | D. J. C | If re-exported outside of the | F. du. | 20 | 014 | 20 | 015 | 2 | 016 | 20 | 17 | 2 | 018 |
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| ntify you nium - C | Oxide. Where necessary, input 0. | | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | | | | | | | | | | |
| ntify you nium - C | Oxide. Where necessary, input 0. | | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | | | | | | | | | | |
| ntify you nium - C | Oxide. Where necessary, input 0. | | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | | | | | | | | | | |
| ntify you nium - C | Oxide. Where necessary, input 0. | | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | | | | | | | | | | |
| 1 2 3 4 5 6 | Oxide. Where necessary, input 0. | | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | | | | | | | | | | Value (\$USD) |
| 1 2 3 4 5 6 7 | Oxide. Where necessary, input 0. | | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | | | | | | | | | | |
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| | | | | | | Enriched Uranium Hexafluoride (K | (KgU) | | | | | | | | | | |
|--|--|----------------------------------|--|-------------|-------------|--|-----------------|-------------|-----------------------|---------------|-----------------------|---------------|-----------------------|--|-----------------------|-------|-----------------------|
| dentify your organization's total number ranium - Hexafluoride. Where necessary | of suppliers for Enriched ry, input 0. | | | | | | | | | | | | | | | | |
| | | Country of Uranium Ore | e Manufacturer/Processor (if different | | 4 7 | If re-exported outside of the | - | 7 | 2014 | | 2015 | | 2016 | 7 | 2017 | | 2018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | I End-Use | Units | Value (\$USD) |) Units | Value (\$USD) |) Units | Value (\$USD) |) Units | Value (\$USD) | Units | Value (\$USD) |
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| | | | 4 | | | Enriched Uranium - Other (KgU | ,(U) | | | | | | | | | | |
| dentify your organization's total number ranium - Other. Where necessary, input | of suppliers for Enriched t 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | e Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | E End-Use | 20 Units | 2014 Value (\$USD) | | 2015 Value (\$USD) | | 2016 Value (\$USD) | | 2017 Value (\$USD) | | 2018 Value (\$USD) |
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| 10 | <u> </u> | | | | Fuel Ass | semblies (PWR, BWR, or Other) (Fir | Finished Units) | | | | ' | | ' | | | | |
| | 1 for Fuel | | | | Fuel Assen | Ablies (PWK, bwk, or other) tri | Alshea Units) | | | | | | | | | | |
| dentify your organization's total number assemblies. Where necessary, input 0. | of suppliers for Fuel | 4 | | | | | | | | | | | | | | | |
| | 4 | Country of Uranium Ore | e Manufacturer/Processor (if different | 4 | 4 | If re-exported outside of the | 4 | 2′ | 2014 | 7 | 2015 | 7 | 2016 | 2' | 2017 | 7 | 2018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | I End-Use | Units | Value (\$USD) |) Units | Value (\$USD) |) Units | Value (\$USD) |) Units | Value (\$USD) | Units | Value (\$US |
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| Comments: | | _ | | _ | _ | | <u> </u> | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | | | | | | NTIAL - Per Section 705(d) of the I | | | | | | | | | | | |

Next Page Previous Page 8c: Imports - Enrichment Services Only complete if your organization provides enrichment services. If your organization precides enrichment services which is then re-exported to a foreign country for final use, identify the suppliers and the subsequent country origin of the material for each of the below products for the 2018 period. If your organization receives uranium that was imported into the U.S. for enrichment services that stays in the U.S. after enrichment services are complete for final use, identify the suppliers and the subsequent country origin of the material for each of the below products for the 2014 to 2018 period. If the material is received by book transfer or flag swap from the same organization, record the information on separate lines. Exporting organizations should include any individual brokers and/or traders that your organization purchases uranium products from. If this category of imports is not relevant to your organization, please select 'Not Applicable' and proceed to section Section PLEASE NOTE THE UNITS OF MEASURE IN THE HEADINGS. E.G. URANIUM ORE SHOULD BE RECORDED IN POUNDS. Uranium Ore (Pounds) Identify your organization's total number of suppliers for Uranium Ore. Where necessary, input 0. If re-exported outside of the U.S., provide country of final 2014 2015 2016 2017 2018 Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? Book Swap? End-Use Origin from exporting company) Units Value (\$USD) use Yes Yes Commercial No No Research Government (Civilian) Government (Defense) Other Uranium Concentrate (Pounds U3O8) dentify your organization's total number of suppliers for Uranium Concentrate. Where necessary, input 0. 2015 2016 If re-exported outside of the U.S., provide country of final 2014 2017 2018 Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? Book Swap? End-Use Origin from exporting company) Units Value (\$USD) use 10 Uranium Metal (KgU) entify your organization's total number of suppliers for Uranium Metal. Where necessary, input 0. 2014 2015 2016 2017 2018 If re-exported outside of the Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? End-Use Book Swap? U.S., provide country of final Origin from exporting company) Units Value (\$USD) use 10 Natural Uranium - Not Compounds (KgU) Identify your organization's total number of suppliers for Natural Uranium - Not Compounds. Where necessary, input 0. If re-exported outside of the U.S., provide country of final 2014 2015 2016 2017 2018 Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? End-Use Origin from exporting company) Value (\$USD) Units use

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| Supplier | | | | | | | | | | | | | | | | | | | |
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| Supplier Supplier Suppliers Supplier | | | | | | | | If we assessed assisted a fitter | | 20 | 14 | 21 | 115 | 20 | 116 | 2 | 117 | 2 | 118 |
| Supplier | Si | Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | | | | | | | | | | Value (\$U |
| Supplier | | | | | | | | | | | | | | | | | | | |
| ## Supplier Not Dambier of Logistics for Livanium Celebrativisty Workshop Supplier Headquarters Supplier Headquarters Sup | | | | | | | | | | | | | | | | | | | |
| ## designation for training of | | | | | | | | | | | | | | | | | | | |
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| Supplier Parameter Param | | | | | | | | | | | | | | | | | | | |
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| ## Supplier Not Dambier of Logistics for Livanium Celebrativisty Workshop Supplier Headquarters Supplier Headquarters Sup | | | | | | | | | | | | | | | | | | | |
| ## designation for training of | | | | | | | | | | | | | | | | | | | |
| ## Supplier Readquarters Sup | | | | | | | Ur | anium Compounds - Hexafluorio | de (KgU) | | | | | | | | | | |
| Supplier Manufacturer/Processor (if different from experting company) Manufacturer/Processor (if different from experity company) Manufacturer/Processor (if different from experting company) Manufacturer/Processor (if different from experting company) Manufacturer/Processor (if different from experting co | our organiza | ration's total number of s | suppliers for Uranium | | | | | | | | | | | | | | | | |
| Supplier Hoodquarters | ius - nexaliu | uoride. Wriere necessary | r, input o. | | | | | | | | | | | | | | | | |
| Viet Value (\$15.0) Units | Si | Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | Fnd-Use | | | | | | | | | | |
| Supplier Manufacturer/Processor (if different from exporting company) Supplier Headquarters Country of Uranium Ore Origin Manufacturer/Processor (if different from exporting company) Flag Swap? Book Swap? | - | | | Origin | from exporting company) | | | use | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value |
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| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | Value (\$USD) | | Value (\$USD) | | | | | | |
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| our organization's total numbe | r of suppliers for Depleted | | | | | | | | | | | | | | | | |
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| our organization's total numbe | r of suppliers for Depleted | | | | | Depleted Uranium - Metal (K | gU) | | | | | | | | | | |
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| | | | | | | Enriched Uranium Hexafluoride | (KgU) | | | | | | | | | | |
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| exafluoride. Where necess | ary, input 0. | | | | | | | | | | | | | | | | |
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|--------------------------|--|--------------------------------|-----------------------------------|--|----------------------|---------------------|--|---------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|--|---------------|---|------------------------------------|--|------------------------------------|------------------------|
| nium tha | t was imported into the U.S. for | fuel fabrication services that | t stays in the U.S. after fuel fa | anium that was imported into the U.S. for abrication services are complete for final r organization purchases uranium produc | use, identify the su | vices which is then | : Imports - Fuel Fabrication Se re-exported to a foreign count sequent country origin of the m | try for final use, identify the | e suppliers and ow products fo | the subsequent or the 2014 to 201 | country origin (8 period. If the | of the material for material is receive | each of the b | elow products for ansfer or flag swa | r the 2014 to 2 up from the sar | 018 period. If you ne organization, r | ir organization ecord the infor | receives rmation on |
| ur organiz | ory of imports is not relevant to ation, please select 'Not and proceed to Section 8E. | | | | | | | | | | | | | | | | | |
| EASE NOT | E THE UNITS OF MEASURE IN THE | E HEADINGS. E.G. URANIUM | ORE SHOULD BE RECORDED | IN POUNDS. | | | | | | | | | | | | | | |
| | | | | | | | Uranium Ore (Pounds) | | | | | | | | | | | |
| ntify you nere nece | r organization's total number of s ssary, input 0. | suppliers for Uranium Ore. | | | | | | | | | | | | | | | | |
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| 10 | | | | | | | ranium Concentrate (Pounds U | 1200) | | | | | | | | | | |
| | | | | | | | ramum concentrate (Founds o | 1300) | | | | | | | | | | |
| | r organization's total number of s . Where necessary, input 0. | suppliers for Uranium | | | | | | | | | | | | | | | | |
| | | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 2 | 014 | 2 | 015 | 2 | 016 | 20 | 017 | 20 |)18 |
| | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| | | | | | | | Uranium Metal (KgU) | | | | | | | | | | | |
| entify you etal. When | r organization's total number of see necessary, input 0. | suppliers for Uranium | | | | | | | | | | | | | | | | |
| | | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 2 | 014 | 2 | 015 | 2 | 016 | 20 | 017 | 20 |)18 |
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Natural Uranium - Not Compounds (KgU)

Identify your organization's total number of suppliers for Natural Uranium - Not Compounds. Where necessary, input 0.

| | | | | Country of Uranium Oro | Manufacturer/Processor (if different | | | If re-exported outside of the U.S., provide country of final | | 2 | 014 | 2 | 015 | 2 | 016 | 2 | 017 | 20 | 018 |
|----|----|----------|-----------------------|------------------------|--------------------------------------|------------|------------|--|---------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|
| | | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) |
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| | | | | | · | Jranium Compounds - Oxide (K | gU) | | | | | | | | | | |
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| ntify your organization's total numl mpounds - Oxide. Where necessary | | | | | | | · . | | | | | | | | | | |
| | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 2 | 014 | 20 | 015 | 2 | 016 | 20 |)17 | 2 | 018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| 0 | | | | | Urai | ium Compounds - Hexafluorid | e (KgU) | | | | | | | | | | |
| tify your organization's total numl pounds - Hexafluoride. Where ne | ber of suppliers for Uranium cessary, input 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | 014 | | 015 | | 016 | |)17 | | 018 |
| Зиррпеі | Supplier Headquarters | Origin | from exporting company) | riag swap: | воок эмар: | use | Eliu-ose | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$US |
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| 10 | | | | | | Jranium Compounds - Other (K | gU) | | | | | | | | | | |
| tify your organization's total numl pounds - Other. Where necessary | ber of suppliers for Uranium r, input 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | Units 2 | Value (\$USD) | Units 20 | Value (\$USD) | Units 2 | Value (\$USD) | Units 20 | Value (\$USD) | Units | 018 Value (\$USD |
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| | <u> </u> | | | | . | Depleted Uranium - Oxide (Kg | U) | | | | • | | | | | | • |
| ify your organization's total numl um - Oxide. Where necessary, in | ber of suppliers for Depleted put 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | Units 2 | Value (\$USD) | | Value (\$USD) | Units 2 | Value (\$USD) | Units 20 | Value (\$USD) | Units | 018 Value (\$US |
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| ır organization's total numbe luorides. Where necessary, | er of suppliers for Depleted input 0. | | | | | | | | | | | | | | | | |
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| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$ |
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| r organization's total number | er of suppliers for Depleted | | | | | | | | | | | | | | | | |
| Other. Where necessary, inp | ut O. | | | | | | | | 044 | | 45 | _ | 24.6 | - | 47 | | 0040 |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | 014 | | 015 | | 016 | | 17 | | 2018 |
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| ır organization's total numbe | er of suppliers for Depleted | | | | | (rec | , | | | | | | | | | | |
| Metal. Where necessary, inp | ut 0. | | | | | | | | | | | | | | | | |
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| | | | | | | Enriched Uranium Oxide (KgU |) | | | | | | | | | | |
| ır organization's total numb | er of suppliers for Enriched | | | | | Online Online (Ngo | | | | | | | | | | | |
| oxide. Where necessary, inp | ut 0. | | | | | | | | | | | | | | | | |
| | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | - 1 | 2 | 014 | 20 | 015 | 20 | 016 | 20 | 17 | 2 | 2018 |
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| | | | | | | Enriched Uranium Hexafluoride (| (KgU) | | | | | | _ | | | | |
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| ry your organization's total number o um - Hexafluoride. Where necessary, | of suppliers for Enriched /, input 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore | e Manufacturer/Processor (if different | Flag Swap? | | If re-exported outside of the U.S., provide country of final | | | 2014 | | 2015 | | 2016 | | 2017 | | 2018 |
| эаррис. П | | Origin | from exporting company) | | | use | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$U |
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| our organization's total number of Other. Where necessary, input 0 | of suppliers for Enriched 0. | | | | | | | | | | | | | | | | |
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| our organization's total number c es. Where necessary, input 0. | of suppliers for Fuel | | | | | | | | | | | | | | | | |
| | A 7 | Country of Uranium Ore | e Manufacturer/Processor (if different | 4 / | 4 | If re-exported outside of the | | 2 | 2014 | 21 | 2015 | 7 | 2016 | 21 | 2017 | 7 | 2018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Valu |
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Next Page Previous Page 8e: Imports - Commercial Inventory and/or Market Resale If your organization imports directly or receives uranium that has been imported into the U.S., in any form, for the sole purpose of increasing commercial inventory and/or for market resale, identify the suppliers and the subsequent country origin of the material for each of the below products for the 2014 to 2018 period. If the material is received by book transfer or flag swap from the same organization, record the information on separate lines. Exporting organizations should include any individual brokers and/or traders that your organization purchases uranium products from. If this category of imports is not relevant to your organization, please select 'Not Applicable' and proceed to Section 8F. PLEASE NOTE THE UNITS OF MEASURE IN THE HEADINGS. E.G. URANIUM ORE SHOULD BE RECORDED IN POUNDS. Uranium Ore (Pounds) Identify your organization's total number of suppliers for Uranium Ore. Where necessary, input 0. 2014 2015 2016 2017 2018 If re-exported outside of the U.S., provide country of final Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? End-Use Origin from exporting company) Units Value (\$USD) use Yes Yes Commercial No No Research Government (Civilian) Government (Defense) Other Uranium Concentrate (Pounds U3O8) dentify your organization's total number of suppliers for Uranium Concentrate. Where necessary, input 0. 2015 2016 If re-exported outside of the U.S., provide country of final 2014 2017 2018 Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? Book Swap? End-Use Origin from exporting company) Units Value (\$USD) use 10 Uranium Metal (KgU) Identify your organization's total number of suppliers for Uranium Metal. Where necessary, input 0. 2015 2016 2017 2014 2018 If re-exported outside of the Country of Uranium Ore Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? Book Swap? U.S., provide country of final End-Use Origin from exporting company) Units Value (\$USD) Natural Uranium - Not Compounds (KgU) dentify your organization's total number of suppliers for Natural Uranium - Not Compounds. Where necessary, input 0. 2014 2015 2016 2017 2018 If re-exported outside of the U.S., provide country of final Country of Uranium Ore Origin Manufacturer/Processor (if different Supplier Supplier Headquarters Flag Swap? End-Use Value (\$USD) Value (\$USD) Value (\$USD) Value (\$USD) Value (\$USD) from exporting company) Units Units Units Units Units use

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| lentify your organization's total nun | ober of suppliers for Uranium | | | | | | <u> </u> | | | | | | | | | | |
| ompounds - Oxide. Where necessar | y, input 0. | | | | | | | | | | | | | | | | |
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| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| dentify your organization's total nun | nber of suppliers for Uranium | | | | | | | | | | | | | | | | |
| ompounds - Hexafluoride. Where n | ecessary, input 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | 20 | 014 | 20 | 015 | 2 | 016 | 20 | 017 | 2 | 018 |
| Зиррпеі | Supplier rieauqual ters | Origin | from exporting company) | riag swap: | воок эмар: | use | Eliu-Ose | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| dentify your organization's total nun | nber of suppliers for Uranium | | | | | | | | | | | | | | | | |
| ompounds - Other. Where necessar | ry, input 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | 014 | | 015 | | 016 | | 017 | | 018 |
| | | Origin | from exporting company) | | | use | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| | | | | | | Depleted Uranium - Oxide (Kg | U) | | | | | | | | | | |
| dentify your organization's total num | nber of suppliers for Depleted | | | | | | | | | | | | | | | | |
| Jranium - Oxide. Where necessary, i | nput o. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | | 014 | | 015 | | 016 | |)17 | | 018 |
| Supplief | Supplier ricauquarters | Origin | from exporting company) | nag swap: | BOOK Swap: | use | Eliu-Osc | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| | | | | | | Depleted Uranium - Fluorides (K | 'al I\ | | | | | | | | | | |
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| | | | | | | Depleted Oranium - Fluorides (F | .go, | | | | | | | | | | |
| our organization's total number Fluorides. Where necessary, in | of suppliers for Depleted ut 0. | | | | | | | | | | | | | | | | |
| | | | | | | | | 20 | 14 | 2/ | 245 | - | 014 | 2 | 047 | 2 | 040 |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | Units 20 | Value (\$USD) | | Value (\$USD) | Units | 016 Value (\$USD) | Units | Value (\$USD) | Units | 018 Value (\$US |
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| | • | | | | | Depleted Uranium - Other (Kg | U) | • | | | | | | | | | |
| our organization's total number | of suppliers for Depleted | | | | | | | | | | | | | | | | |
| Other. Where necessary, input |). | | | | | | | | | | | | | | | | |
| | | Country of Heaviers Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 20 | 14 | 20 | 015 | 2 | 016 | 2 | 017 | 2 | 018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value |
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| | | | | | | Depleted Uranium - Metal (Kg | U) | | | | | | | | | | |
| our organization's total number Metal. Where necessary, input | of suppliers for Depleted | | | | | Depleted Uranium - Metal (Kg | U) | | | | | | | | | | |
| Metal. Where necessary, input |). | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 20 | 14 | 20 | 015 | 2 | 016 | 2 | 017 | 2 | 018 |
| our organization's total number Metal. Where necessary, input Supplier | of suppliers for Depleted Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | U) End-Use | | 14 Value (\$USD) | | D15 Value (\$USD) | 2 Units | 016 Value (\$USD) | 2 Units | 017 Value (\$USD) | 2 Units | 018 Value |
| Metal. Where necessary, input |). | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the | | | | | | | | | | | |
| Metal. Where necessary, input |). | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | | | | | | | | | | | |
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| Metal. Where necessary, input | Supplier Headquarters Supplier Fleadquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | | | | | | | | | | |
| Metal. Where necessary, input Supplier Dur organization's total number Oxide. Where necessary, input | Supplier Headquarters of suppliers for Enriched | Origin | from exporting company) | | | If re-exported outside of the U.S., provide country of final use use | End-Use | | Value (\$USD) | Units | | Units | | Units | | Units | |
| Metal. Where necessary, input Supplier | Supplier Headquarters Supplier Fleadquarters | Origin | Manufacturer/Processor (if different from exporting company) Manufacturer/Processor (if different from exporting company) | Flag Swap? | | If re-exported outside of the U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units 20 | Value (\$USD) | Units 2 | Value (\$USD) | Units 2 | Value (\$USD) | Units 2 | Value |
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| Metal. Where necessary, input Supplier Dur organization's total number Oxide. Where necessary, input | Supplier Headquarters of suppliers for Enriched | Origin Country of Uranium Ore | from exporting company) Manufacturer/Processor (if different | | | If re-exported outside of the U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units 20 | Value (\$USD) | Units 2 | Value (\$USD) | Units 2 | Value (\$USD) | Units 2 | Value |
| Metal. Where necessary, input Supplier Dur organization's total number Oxide. Where necessary, input | Supplier Headquarters of suppliers for Enriched | Origin Country of Uranium Ore | from exporting company) Manufacturer/Processor (if different | | | If re-exported outside of the U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units 20 | Value (\$USD) | Units 2 | Value (\$USD) | Units 2 | Value (\$USD) | Units 2 | Value |

| | | | | | F | Enriched Uranium Hexafluoride (| (KgU) | | | | | | | | | | |
|--|--|----------------------------------|--|------------|------------|--|----------------|----------|----------------------|----------|---------------|-------|---------------|----------|----------------------|---------|---------------|
| our organization's total number Hexafluoride. Where necessary | of suppliers for Enriched y, input 0. | | | | | | | | | | | | | | | | |
| | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 20 | 014 | 20 | 015 | 2 | 2016 | 20 | 017 | 2 | 2018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$U |
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| | | | | | | Enriched Uranium - Other (Kg | U) | | | | | | | | | | |
| our organization's total number Other. Where necessary, input | of suppliers for Enriched : 0. | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | Units 20 | 014 Value (\$USD) | Units 20 | Value (\$USD) | Units | Value (\$USD) | Units 20 | 017 Value (\$USD) | Units 2 | 2018 Value |
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| | | | | | Fuel Asse | emblies (PWR, BWR, or Other) (F | inished Units) | | | | | | | | | | |
| our organization's total number s. Where necessary, input 0. | of suppliers for Fuel | 4 | | | | | | | | | | | | | | | |
| | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | 20 | 014 | 20 | 015 | 2 | 2016 | 20 | 017 | 2 | 2018 |
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| Previous Pa | ge | | | | | | | | | | | | | | | | | | Next Page |
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| | | | | | | | 8f: Impor | ts - Other | | | | | | | | | | | |
| If your orga should inclu | nization imports uranium into the ude any individual brokers and/or | e U.S. in any form for any ot traders that your organizat | ther reason not specifically co ion purchases uranium prod | overed in the preceding sections, identify ucts from. | the suppliers and t | he subsequent cou | intry origin of the material for e | ach of the below products | for the 2014 to 2018 period | I. If the materia | l is received by t | oook transfer or | flag swap from t | ne same organ | ization, record the | information o | on separate lines | . Exporting org | anizations |
| If this categ your organi Applicable' | ory of imports is not relevant to zation, please select 'Not and proceed to Section 8G. | | | | | | | | | | | | | | | | | | |
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| PLEASE NO | TE THE UNITS OF MEASURE IN THI | E HEADINGS. E.G. URANIUM | 1 ORE SHOULD BE RECORDED | IN POUNDS. | | | | | | | | | | | | | | | |
| Identify you Where nece | ur organization's total number of s essary, input 0. | suppliers for Uranium Ore. | | | | | Uranium O | re (Pounds) | | | | | | | | | | | |
| | Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | Explanation for Import | |)14 | | 015 | | 016 | | 17 | | 018 |
| 1 | | | Origin | from exporting company) | Yes | Yes | use | Commercial | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
| 2 | | | | | No | No | | Research | | | | | | | | | | | |
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| | | | | | | | Uranium Concentr | ate (Pounds U3O8) | | | | | | | | | | | |
| Identify you | ur organization's total number of s e. Where necessary, input 0. | suppliers for Uranium | | | | | | | | | | | | | | | | | |
| Concentrati | c. Trice incessary, input of | | | | | | If re-exported outside of the | | | 20 |)14 | 20 |)15 | 20 | 016 | 20 | 17 | 20 | 18 |
| | Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final | End-Use | Explanation for Import | Units | Value (\$USD) | | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | | Value (\$USD) |
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| | | | | | | | Oranium r | netai (KgO) | | | | | | | | | | | |
| Metal. Whe | ur organization's total number of s ere necessary, input 0. | suppliers for Oranium | | | | | | | | | | | | | | | | | |
| | | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | | 20 |)14 | 20 |)15 | 20 | 016 | 20 | 17 | 20 | 18 |
| | Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Explanation for Import | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) |
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| | | • | | | | | Natural Uranium - N | ot Compounds (KgU) | | | ' | | <u>'</u> | | | | | | |
| Identify you Uranium - N | ur organization's total number of s Not Compounds. Where necessary | suppliers for Natural y, input 0. | | | | | | | | | | | | | | | | | |
| | Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | Explanation for Import | | Value (\$USD) | Units 20 | Value (\$USD) | 20 Units | Value (\$USD) | | 17 Value (\$USD) | 20 Units | Value (\$USD) |
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| | | | | | | Uranium Compour | nds - Oxide (KgU) | | | | | | | | | | | |
|---|---|--|---|------------|------------|--|--------------------------|------------------------|-------|---------------------|------------|----------------------|-------|-----------------------|-------|----------------------|---------|--------------|
| ır organization's total numb s - Oxide. Where necessary, | per of suppliers for Uranium input 0. | | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | Explanation for Import | | 14 Value (\$USD) | 2 Units | Value (\$USD) | Units | 2016 Value (\$USD) | | Value (\$USD) | Units 2 | Value |
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| | | | | | | Uranium Compounds | Hovofluorido (Kall) | | | | | | | | | | | |
| ır organization's total numb s - Hexafluoride. Where nec | per of suppliers for Uranium | | | | | Granium compounds | ricxandonac (ngo) | | | | | | | | | | | |
| | | Country of Unanium One | NA | | | If re-exported outside of the | | | 20 | 14 | 2 | 015 | | 2016 | 20 |)17 | 2 | 018 |
| Supplier | Supplier Headquarters | Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Explanation for Import | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Vali |
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| | | | | | | Uranium Compour | 1 01 (111) | | | | | | | | | | | |
| r organization's total numb - Other. Where necessary, | per of suppliers for Uranium input 0. | | | | | Oranium compour | ius otiici (kgo) | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | Explanation for Import | | 14 | | 015 | | 2016 | | 017 | | 018 |
| | | Origin | from exporting company) | | · · | use | | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Valu |
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| | | | | | | Depleted Uraniu | m - Oxide (KgU) | | | | | | | | | | | |
| ır organization's total numb Oxide. Where necessary, inp | per of suppliers for Depleted out 0. | | | | | Depleted Uraniui | m - Oxide (KgU) | | | | | | | | | | | ' |
| ır organization's total numb Oxide. Where necessary, inp Supplier | per of suppliers for Depleted but 0. Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | m - Oxide (KgU) End-Use | Explanation for Import | | 114 | | 015 | | 2016 | |)17 | | 1018 Valu |
| Oxide. Where necessary, inp | out 0. | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the | | Explanation for Import | | Value (\$USD) | | 015 Value (\$USD) | Units | 2016 Value (\$USD) | | 017 Value (\$USD) | | |
| Oxide. Where necessary, inp | out 0. | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | | Explanation for Import | | | | | | | | | | |
| Oxide. Where necessary, inp | out 0. | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | | Explanation for Import | | | | | | | | | | |
| Oxide. Where necessary, inp | out 0. | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | | Explanation for Import | | | | | | | | | | |
| Oxide. Where necessary, inp | out 0. | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | | Explanation for Import | | | | | | | | | | |
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| r organization's total numb luorides. Where necessary, | per of suppliers for Depleted input 0. | | | | | | | | | | | | | | | | | |
| | | Country of Uranium Ore | Manufacturer/Processor (if different | | | If re-exported outside of the | | | 20 |)14 | 2 | 015 | 2 | 2016 | 20 | 17 | 2 | 018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Explanation for Import | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Valu |
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| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final use | End-Use | Explanation for Import | | Value (\$USD) | Units 2 | 015 Value (\$USD) | Units | Value (\$USD) | | Value (\$USD) | Units 2 | 018 Valu |
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| ır organization's total numb Metal. Where necessary, inp | per of suppliers for Depleted out 0. | | | | | Depleted of ann | ım - Metal (KgU) | | | | | | | | | | | |
| Supplier | Supplier Headquarters | C | 14 6 1 40 (14 114 | | | 16 | | | 20 | 014 | 2 | 015 | - 2 | 2016 | 20 | 117 | 2 | 018 |
| | | Origin | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | Explanation for Import | | Value (ALICD) | | | | Veles (AUCD) | | | 11-14- | |
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| ir organization's total numb xide. Where necessary, inp Supplier | per of suppliers for Enriched | Origin | Manufacturer/Processor (if different from exporting company) Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use Enriched Urani If re-exported outside of the U.S., provide country of final | | Explanation for Import | Units 20 | 014 | Units 2 | Value (\$USD) | Units | 2016 | Units 20 | Value (\$USD) | 2 | 2018 |
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| Oxide. Where necessary, inp | per of suppliers for Enriched | Origin Country of Uranium Ore | from exporting company) Manufacturer/Processor (if different | | | U.S., provide country of final use Enriched Urani If re-exported outside of the U.S., provide country of final | um Oxide (KgU) | | Units 20 | 014 | Units 2 | Value (\$USD) | Units | 2016 | Units 20 | Value (\$USD) | 2 | 2018 |
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| Oxide. Where necessary, inp | per of suppliers for Enriched | Origin Country of Uranium Ore | from exporting company) Manufacturer/Processor (if different | | | U.S., provide country of final use Enriched Urani If re-exported outside of the U.S., provide country of final | um Oxide (KgU) | | Units 20 | 014 | Units 2 | Value (\$USD) | Units | 2016 | Units 20 | Value (\$USD) | 2 | Value |

| | | | | | | Enriched Uranium H | exafluoride (KgU) | | | | | | | | | | | |
|--|--|----------------------------------|--|------------|------------|---|---------------------------|------------------------|-------|--|-------|---------------|-------|---------------|-------|---------------|-------|------------|
| our organization's total number Hexafluoride. Where necessar | r of suppliers for Enriched y, input 0. | | | | | | | | | | | | | | | | | |
| | | | | | | If re-exported outside of the | | | 2 | 014 | 2 | 015 | | 016 | 20 |)17 | 2 | 018 |
| Supplier | Supplier Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Explanation for Import | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$U |
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| our organization's total number Other. Where necessary, input | t 0. | | | | | | | | | | | | | | | | | |
| | | Country of Uranium Oro | Manufacturer/Processor (if different | | | If re-exported outside of the | | | 2 | 014 | 2 | 015 | : | 016 | 20 | 17 | 2 | 018 |
| Supplier | Supplier Headquarters | Origin | from exporting company) | Flag Swap? | Book Swap? | U.S., provide country of final use | End-Use | Explanation for Import | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value |
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| | | | | | | Fuel Assemblies (PWR, BWR, | or Other) (Einiched Uni | +c\ | | | | | | | | | | |
| our organization's total number | r of suppliers for Fuel | | | | | ruci Assemblies (FVVK, BVVK, | or other) (Fillished Offi | is) | | | | | | | | | | |
| s. Where necessary, input 0. | | | | | | | | | | | | | | | | | | |
| Supplier | Supplier Headquarters | Country of Uranium Ore | Manufacturer/Processor (if different | Flag Swap? | Book Swap? | If re-exported outside of the U.S., provide country of final | End-Use | Explanation for Import | | 014 | | 015 | | 016 | |)17 | | 018 |
| | | Origin | from exporting company) | - ' | • | use | | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value |
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| evious F | age | | | | | | | | | | | | | | | | Next Pag |
|----------|-------------------------------|-------------------------------|----------------------------|-----------------------------------|--------------------|--------------------|--------------------------|-------------------------------|-----------------------------|---------------------------|------------------------|---------------------------------|-----------------------------------|-------------------------------|---------------------------------|---|---------------------------|
| | | | | | | | | | 9a: Custo | mers and Contracts | | 200 | 09-2013 | 2014- | 2018 | | |
| A For 2 | 009-2013 and 2014-2018, re | ecord the number of direct | U.Sbased and non-U.S | based customers for uranium or f | uel products. | | | | | | | U.S. | Non-U.S. | U.S. | Non-U.S. | | |
| | | | | | | | | | | | | | | | | | |
| Iden | ify your organization's top 1 | 15 current customers (by sa | ales volume). For each cu | rrent/active customer, enter type | of customer, type | of contract, contr | ract dates, expected | renewal, type and supply of | uranium. For country of o | igin, please indicate the | country from which t | the majority, by volume, of the | uranium your organization supp | plies was originally mined. | | | |
| | | | | | | | | | | | | | | | | | |
| | Customer Name | Customer's HQ | Type of Customer | Type of Contract | | ct Dates | | End-Use | Renewal Expected | | | Type and Supply | | | Amount Supplied to Date | Estimated Percent of Total 2018 Sales Attributable to the Active | Explain |
| | | (Country) | | | Start Date | End Date | End-user HQ (country) | End-use (if known) | · . | | Туре | Origin | Minimum Price for Contract | Maximum Price for Contract | | Contract | |
| 2 | | | | | | | | Commercial Research | | | | | | | | | |
| 3 | | | | | | | | Government (Civilian) | | | | | | | | | |
| 4 | | | | | | | | Government (Defense) Other | | | | | | | | | |
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| If yo | ı indicated that some of you | ır organization's | | | | | | | | | | | | | | | |
| cont | acts were not expected to b | e renewed, explain. | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| For y | our organization's inactive o | or former customers from 2 | 2009 to 2018, identify the | type of customer, type of contrac | t, contract dates, | whether the contr | ract was canceled, n | ot renewed, or other, and the | e reason why. Also identify | the type and supply of | uranium, as well as th | e average price per unit. For c | ountry of origin, please indicate | the country from which the ma | ajority, by volume, of the uran | nium your organization supplied w | as originally mined. |
| | | | | | | | Contract Dates | | | | | | Tunn and Sunr | ply of Uranium | | | |
| | Customer Na | ame | Type of Customer | Type of Contract | | | | | Reason for Contract I | nd Expla | in Reasoning | | | | Advision - Policy for | Amount Supplied Over Duration of Contract | Explain |
| | | | | | Star | t Date | | End Date | | | | Туре | Country of Uranium Ore Origin | Minimum Price for Contract | Contract | | |
| 1 2 | | | | | | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | | | | | | |
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| From | 2009-2013, 2014-2018, and | 2019-2023, record the nu | mber and dollar value of | our organization's contracts (spo | t, short-term, mid | -term, long-term) | for uranium or fuel | products. | | | | | | | | | |
| | | | | 2009-2013 | | | | | | 20 | 14-2018 | | | | 2019- | 2023 | |
| | Contract Type | Spot Number | Value Number | | d-term Value | Long Number | g-term Value | Spot Number | Value Numi | Short-term er Value | Number | Mid-term Value | Long-term Number Value | Spot Number Value | Short-term Number Value | Mid-term Number Value | Long-term Number Value |
| 1 | U.S. | Humber | value Namber | Value Hamber | Fuide | Humber | Value | Humber | vuide Huini | ci vaide | Humber | Value | Number Value | rumber value | rumber voice | Humber Fuide | Tunioci Tunio |
| 2 | Non-U.S. | | | | | | | Spot | Short-term | , | Aid-term | Long-term | | | | | |
| 3 | Do you have contracts beyo | and 2023? | Y/N | If yes, complete the matrix to | the right. | | Number | Value | Number Valu | | Value | Number | Value | | | | |
| ľ | | | 1714 | , 23, complete the matrix to | | | | | | | | | | | | | |
| | Has your organization exper | rienced difficulty penalistic | 20 | | | | | 1 | - | | | 1 | | | | | |
| 4 | renegotiating, or extending | long-term contracts? | '61 | If yes, explain any difficulties. | | | | | | | | | | | | | |
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| | Comn | ments: | | | | | | | | | | | | | | | |
| | | | | | | | | | CO CONTINUE | | no bodo i | | | | | | |
| | | | | | | | | BUSINE | SS CONFIDENTIAL - Per S | ection 705(d) of the Def | ense Production Act | | | | | | |

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| Prev | ous F | 'age | | | | Next Page |
|---------------|---------------|--|---------------------------------------|-------------------------------------|-----------------------------------|----------------|
| From minii | 2014 ng or | 4 to 2018, did your organization operate U.S. milling facilities? | 9b: Customers ar | d Contracts (Continued) | | |
| | If no | proceed to Part B. If yes, complete Part A. | | | | |
| | 1 | Has your organization used product (U3O8) purchased on the spot market in order to fulfill contracts? | | | | |
| | | If yes, indicate the percentage of U3O8 contra | act obligations that were fulfilled u | sing product (U3O8) purchased or | n the spot market for the 2014 to | o 2018 period. |
| | 2 | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | | | |
| A. | | Indicate the total amount of uranium purchas | ses, in pounds of U3O8, that your o | rganization purchased on the spo | t market for the 2014 to 2018 p | eriod. |
| | 3 | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | | | |
| | 4 | What average price per pound of uranium concentrate does your organization need in order to cover fully loaded costs, such as overhead, marketing, depreciation, depletion, amortization, and operating costs? Explain your reasoning. | | | | |
| | From | n 2014 to 2018, did your organization provide l | J.Sbased enrichment services? | | If yes, complete the questions i | n Part B. |
| | 1 | Has your organization re-enriched tailings, whether from previous enrichment activities or adjusting current tails assay, and then resold the product? | | | | |
| | | If yes, indicate the percentage of your revenu | e that came from sales of re-enrich | ned tailings for the 2014 to 2018 p | eriod. | |
| | 2 | 2014 | 2015 | 2016 | 2017 | 2018 |
| | | | | | | |
| | | Provide the annual quantity, in KgU, of re-enr | - | | | |
| В | 3 | 2014 | 2015 | 2016 | 2017 | 2018 |
| | - | What factors led your organization to begin selling re-enriched tails? Discuss the role that excess inventory has played in causing your organization to re-enrich tails. | | | | |
| | | If this is a new business activity, describe the factors that caused your organization to start selling re-enriched tails. | | | | |
| | 6 | How would an increase in uranium spot prices affect your sales of re-enriched tails? | | | | |
| | | Comments: | | | | |
| | | | BUSINESS CONFIDENTIAL - Per Sec | tion 705(d) of the Defense Produ | ction Act | |

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Previous Page 9c. Third Party Storage If your organization provides storage of uranium in any form for other parties, identify the suppliers and the subsequent country origin of the material for each of the below products for the 2014 to 2018 period. This is material for which your organization does not have title. Include material stored for brokers and/or traders, and record if the material stored by your organization has been involved in a book swap. If your organization does not provide storage of uranium in any form, please select 'Not Applicable.' Uranium Ore (Pounds) Identify the total number of consigners of Uranium Ore to your organization. Where necessary, input 0. 2014 2015 2016 2017 2018 Consigning Organization Country of Uranium Ore Manufacturer/Processor (if different End-Use (If Known) Consigning Organization Book Swap? Headquarters Origin from consigning organization) Units Value (\$USD) Yes 2 Nο Research Government (Civilian) Government (Defense) Other 10 Uranium Concentrate (Pounds U3O8) Identify the total number of consigners of Uranium Concentrate to your organization. Where necessary, input 0. 2014 2015 2016 2017 2018 Consigning Organization Country of Uranium Ore Manufacturer/Processor (if different **Consigning Organization** Book Swap? End-Use Headquarters Origin from consigning organization) Units Value (\$USD) 2 3 10 Uranium Metal (KgU) Identify the total number of consigners of Uranium Metal to your organization. Where necessary, input 0. 2014 2015 2016 2017 2018 Consigning Organization Country of Uranium Ore Manufacturer/Processor (if different Consigning Organization Book Swap? Fnd-Use Headquarters Origin from consigning organization) Value (\$USD) Value (\$USD) Value (\$USD) Value (\$USD) Value (\$USD) Units Units Units Units Units 2 3 10 Natural Uranium - Not Compounds (KgU) Identify the total number of consigners of Natural Uranium - Not Compounds to your organization. Where necessary, input 0. 2018 2014 2015 2016 2017 Consigning Organization Headquarters Country of Uranium Ore Origin Manufacturer/Processor (if different Consigning Organization Book Swap? End-Use from consigning organization) Value (\$USD) Units 2 6 10

| | | | | | | 0.11.// | 1) | | | | | | | | | |
|-----------------------|--|--|--------------------------|--|------------|----------------------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|
| | | | | | Uranii | ım Compounds - Oxide (Kgl | J) | | | | | | | | | |
| ldentif to you | fy the total number of consigners of U Ir organization. Where necessary, inpu | ranium Compounds - Oxide t 0. | | | | | | | | | | | | | | |
| | | | | | | | 20 | 014 | 20 | 015 | 2 | 016 | 2 | 017 | 2 | 018 |
| | Consigning Organization | Consigning Organization Country (| of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 1 2 | | | | | | | | | | | | | | | | |
| 3 | 3 | | | | | | | | | | | | | | | |
| E 4 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | |
| | | | | | Uranium | Compounds - Hexafluoride | (KgU) | | | | | | | | | |
| Identif Compo | fy your organization's total number of ounds - Hexafluoride. Where necessar | consigners of Uranium y, input 0. | | | | | | | | | | | | | | |
| | | | | | | | 20 |)14 | 20 | 015 | 2 | 016 | 2 | 017 | 2 | 018 |
| | Consigning Organization | Consigning Organization Country Headquarters | of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 2 | | | | | | | | | | | | | | | | |
| _ 3 | 3 | | | | | | | | | | | | | | | |
| F 4 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| | | | | | Uranii | ım Compounds - Other (Kg | J) | | | | | | | | | |
| Identif Compo | fy your organization's total number of ounds - Other. Where necessary, input | consigners of Uranium 0. | | | | | | | | | | | | | | |
| | | | | | | | 20 |)14 | 20 | 015 | 2 | 016 | 2 | 017 | 2 | 018 |
| | Consigning Organization | Consigning Organization Headquarters Country | of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 2 | | | | | | | | | | | | | | | | |
| 3 | 3 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | 5 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 9 | 9 | | | | | | | | | | | | | | | |
| 10 | 0 | | | | Den | eted Uranium - Oxide (KgU) | | | | | | | | | | |
| Identif Uraniu | fy your organization's total number of um - Oxide. Where necessary, input 0. | consigners of Depleted | | | <u> </u> | | | | | | | | | | | |
| | | | | | | | 20 | 014 | 20 | 015 | 2 | 016 | 2 | 017 | 2 | 018 |
| | Consigning Organization | | of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 2 | 2 | | | | | | | | | | | | | | | |
| 3 H | 3 | | | | | | | | | | | | | | | |
| - 4 | 4 | | | | | | | | | | | | | | | |
| 6 | 5 | | | | | | | | | | | | | | | |
| 7 | 7 | | | | | | | | | | | | | | | |
| 5 6 7 8 9 | 9 | | | | | | | | | | | | | | | |
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|--|---|---|----------------------------------|--|------------|-----------------------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|
| | your organization's total number of | i | | | Deple | ted Uranium - Fluorides (Kg | U) | | | | | | | | | |
| Uranium | n - Fluorides. Where necessary, input | t 0. | | | | | | | | | | | | | | |
| | | | | | | | 2 | 014 | 2 | 015 | 2 | 016 | 2 | 2017 | 2 | 018 |
| | Consigning Organization | Consigning Organization Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 1 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 5 | | | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | Dan | atad Harrison Other (Val.) | | | | | | | | | | |
| dontifu | your organization's total number of | consigners of Donloted | | | Бер | leted Uranium - Other (KgU) |) | | | | | | | | | |
| Uranium | your organization's total number of n - Other. Where necessary, input 0. | consigners of Depleted | | | | | | | | | | | | | | |
| | | | | | | | 2 | 014 | 2 | 015 | 2 | 016 | 3 | 2017 | 2 | 018 |
| | Consigning Organization | Consigning Organization Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| | | | | | Dep | eted Uranium - Metal (KgU) | | | | | | | | | | |
| Identify Uranium | your organization's total number of n - Metal. Where necessary, input 0. | consigners of Depleted | | | | | | | | | | | | | | |
| | | | | | | | 2 | 014 | 2 | 015 | 2 | 016 | 2 | 2017 | 2 | 018 |
| | Consigning Organization | Consigning Organization Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 1 | | | | | | | | | | | | | | | | |
| 2 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | - | | | | | | | | | | | |
| ldentify Uranium | your organization's total number of n - Oxide. Where necessary, input 0. | consigners of Enriched | | | EIII | iched Uranium Oxide (KgU) | | | | | | | | | | |
| | | | | | | | 2 | 014 | 2 | 015 | 2 | 016 | 2 | 2017 | 2 | 018 |
| | Consigning Organization | Consigning Organization Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) |
| 1 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 2 3 4 5 6 7 8 9 10 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

| | | | | | Enriche | ed Uranium Hexafluoride (| (gU) | | | | | | | | | |
|-----------|---|---|----------------------------------|--|-------------------|-----------------------------|---------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|--------------|
| entify y | your organization's total number of n - Hexafluoride. Where necessary, i | consigners of Enriched nput 0. | | | | | | | | | | | | | | |
| | | | | | | | 2 | 014 | 2 | 015 | : | 2016 | | 2017 | : | 2018 |
| | Consigning Organization | Consigning Organization Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USE |
| 1 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 1 4 | | | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| | | | | | Enri | ched Uranium - Other (Kg | J) | | | | | | | | | |
| lentify y | your organization's total number of n - Other. Where necessary, input 0. | consigners of Enriched | | | | | | | | | | | | | | |
| | Consigning Organization | Consigning Organization Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | | 014 | | 015 | | 2016 | | 2017 | | 2018 |
| 1 | | Ticadquarter3 | Ongin | Hom consigning organization/ | | | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USE |
| 2 | | | | | | | | | | | | | | | | |
| 3 4 | | | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | Fuel Assemblie | (PWR, BWR, or Other) (F | nished Units) | | | | | | | | | |
| lentify y | your organization's total number of lies. Where necessary, input 0. | consigners of Fuel | | | r del Asseribile. | of With, BWIT, or Guiler, (| maned offica, | | | | | | | | | |
| | | | | | | | 2 | 014 | 2 | 015 | : | 2016 | | 2017 | : | 2018 |
| | Consigning Organization | Consigning Organization Headquarters | Country of Uranium Ore Origin | Manufacturer/Processor (if different from consigning organization) | Book Swap? | End-Use | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USD) | Units | Value (\$USE |
| 1 | | | | | | | | | | | | | | | | |
| 2 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | + | | | | | | |
| | Comments: | | | | | 1 | | ' | | ' | | | | | | |
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| Pr | evious Page | | | | 10: Employment | | | | | | <u>Ne</u> r | kt Pag |
|-----|--|---|---|---------------------------------|---|---|--------------------------------------|---|--|-------------------------|-------------|--------|
| Re | cord the total number of full time equivalent (FTE) employees an | d contractors for the 2014 to 2018 period | i. | | 10. Employment | | | | | | | |
| | | 010 2014 | 2015 | 2016 | 2017 | 2018 | 2019 (Projected) | | | | | |
| 1 | | | | | | | | | | | | |
| L | FTE Contractors | | | | | | | | | | | _ |
| Re | cord the total number of employees for each occupation type be | | | | | | | | | | | |
| | Administrative, Management, Legal Staff, IT | 010 2014 | 2015 | 2016 | 2017 | 2018 | 2019 (Projected) | | | | | |
| | Staff Analysts, Evironmental Compliance, Tailings | | | | | | | _ | | | | |
| | Management Operators, Radiation Safety Technicians | | | | | | | - | | | | |
| E | Engineers, Scientists, Geologists, Geochemists, Geophysicists, Chemical Metallurgists | | | | | | | | | | | |
| | Electricians, Welders, Technicians, Operating Staff, Driller, Logger | | | | | | | | | | | |
| | Millwrights, Miners, Mill Operator, Mill Maintenance, Wellfield Operator, Wellfield Maintenance | | | | | | | | | | | |
| | Marketing and Sales Other | | | | | | | | | | | |
| Δη | swer the following questions about employment difficulties, wor | kforce age educational requirements va | rancies and changes in employme | ent for the 2014 to 2018 period | | | | | | | | |
| r., | swer the following questions about employment dimediales, wor | Krorec age, educational requirements, val | cancies, and changes in employme | | ted (2014 - 2018) | | | | | | | |
| | Occupation | Difficulty | Explanation for Difficulty, if Applicable | Type of Impact | If FTEs were impacted due to changes in facility operations, indicate the number of employees impacted | Current Average Age of Worker (2018) | Formal Education Requirements | On the Job Training Requirements (OTJ) | Current Number of Vacancies (2018) | Average Weeks Vacant | Explanation | |
| | Administrative, Management, Legal Staff, IT Staff | Hiring | | | | | No Formal Educational Credential | No OTJ Required | | | | _ |
| | Analysts, Evironmental Compliance, Tailings Management Op Radiation Safety Technicians | erators, | | | | | High School Diploma or Equivalent | Less Than A Month of OTJ Required | | | | |
| (| Engineers, Scientists, Geologists, Geochemists, Geophysicists, Metallurgists | Chemical Retaining | | | | | Associate's Degree | Between 1 Month and 6 Months of OTJ Required | | | | |
| | Electricians, Welders, Technicians, Operating Staff, Driller, Log | ger Both | | | | | Bachelor's Degree | Between 6 Months to 1 Year of OTJ Required | f | | | |
| | Millwrights, Miners, Mill Operator, Mill Maintenance, Wellfiel Wellfield Maintenance | d Operator, None | | | | | Master's Degree | Between 1 and 2 Years of OTJ Required | | | | |
| | Marketing and Sales | | | | | | Doctoral or Professional Degree | Over 2 Years of OTJ Required | | | | |
| L | Other (specify here |) | | | | | | | | | | |
| | Does the industry experience any amount of workforce cross-over between commercial and U.S. government uranium activities? | If yes, explain below. | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Are the skills associated with the workforce in your organization transferable to other non- uranium industries? | If yes, explain below. | | | | | | | | | | |
| E | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | If you resumed operations at an idled facility, do you reasonal | oly anticipate being able to hire or rehire v | workers? If so, in what in timefram | ne?" | | | | | | | | |
| F | | | | | | | | | | | | |
| İ | Does the geographic location of your organization's facilities play any role in the | If yes, explain below and specify the categories of | | | | | | | | | | |
| | challenges in hiring, retaining, and rehiring employees? | employees that this challe pertains to. | enge | | | | | | | | | |
| , | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Does your organization utilize or provide consulting services that assist in optimizing core | substance of the consulti | of firms you work with, and the ng work below. Consider the | | | | | | | | | |
| ŀ | business processes relating to your organization's role in the nuclear fuel cycle? | degree of integration of t industries in your answer | the uranium and nuclear fuel | | | | | | | | | |
| | | | | | | | | | | | | |
| | Comments: | | | | | | | | | | | |
| L | | | | BUSINESS CONFIDENTIA | AL - Per Section 705(d) of the Defe | nse Production Act | | | | | | |
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|--------|-----------|---|---------------------------|-----------------------------|--|--|-------------------|
| Previo | ous | <u>Page</u> | | | | | Next Page |
| | | | | | 11a: Competition a | nd Demand Trends | |
| n | ucl | | | | | ited States and outside of the United States for uranium prods and describe the principal factors that have affected thes | |
| | | Market | t | | Overall Change | Explanation and Factors | |
| Α | | Within the Unit | ed States | | | | |
| | | Outside the Unit | ted States | | | | |
| | | | | | | ur U.S. manufacturing operations, sales, employment, plann Iclear fuel assemblies. Expain your answer below. | ed expansions, |
| | | Item | Yes/No | | | Explain | |
| В. | 1 | Manufacturing Operations | | | | | |
| | 2 | Sales | | | | | |
| | 3 | Employment | | | | | |
| | 4 | Planned Expansions | | | | | |
| | 5 | Other (specify) | | | | | |
| Ca | apit | | nt and prod | uction effor | rts, or the scale of capit | ts on its return on investment or its growth, investment, abi al investments as a result of imports of any type of uranium ht and explain below. | |
| | | Item | Yes/No | | | Explain | |
| | 1 | Return on Investment | | | | | |
| c | 2 | Investments | | | | | |
| | 3 | Ability to Raise Capital | | | | | |
| | 4 | Existing Development/ Production Efforts | | | | | |
| | 5 | Scale of Capital Investments | | | | | |
| | 6 | Other (specify) | | | | | |
| fr | /ha om | t is the current/future in countries with state-ov | mpact on yo wned enter | our organiz prises, such | ration of competition in n as Russia, Kazakhstan, | the U.S. market for uranium products or nuclear fuel assem Uzbekistan, and China? | blies originating |
| D. | | | | | | | |
| | | Describe the top five mo | ost significa | nt challeng | es to the competitive po | osition of your organization in the U.S. uranium market. | |
| | | 1 | <u> </u> | | , , | , , | |
| | , | 2 | | | | | |
| | 1 | 3 | | | | | |
| | | 4 | | | | | |
| E. – | | 5 | | | | | |
| | | | ost significa | nt challeng | es to the competitive po | osition of your organization in the non-U.S. uranium market. | |
| | | 1 2 | | | | | |
| | 2 | 3 | | | | | |
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| | | Comments | : | | | | |
| | | | BUS | INESS CONI | FIDENTIAL - Per Section | 705(d) of the Defense Production Act | |



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|-----------------|-----------------------------|--|--|-------------------------------------|--|---|-----|
| <u>Previo</u> u | ıs Page | | | | 11b: Competitors | Next P | age |
| Fo | or each of t Ivantage, a | he following factors, indicate w nd explain your reasoning. | hether uranium producers or | nuclear fuel fabricators lo | | . possess the competitive advantage, specify the country with the perceived | |
| | | Factor | U.S. or Non-U.S. Location with Advantage | Country with Perceived Advantage | | Explain | |
| | bor Costs | | | | | | |
| Er | vironment | al Compliance Costs | | | | | |
| | aterial Cos | | | | | | |
| | Juipment C | | | | | | |
| | cility Costs | | | | | | |
| A. Su | ipply of Ski | lled Workers | | | | | |
| O | | ned Product Price | | | | | |
| | uality | | | | | | |
| | ad Time | | | | | | |
| | | cess Variability | | | | | |
| | educed Cos | | | | | | |
| | | rements Costs Support/Subsidies | | | | | |
| | irrency Val | | | | | | _ |
| | | osts (Non-Environmental) | | | | | _ |
| | ther | (specify here) | | | | | _ |
| | ther | (specify here) | | | | | _ |
| | | | | | 1.1 1.6 11 | | |
| Ia | entity your | organization's leading U.S. com | npetitor in the manufacture of | r any type of uranium, and | d identify their primary competitive attri | ibute. | |
| | | | | | Top U.S. Competitors | | |
| | | Competitor Name | State | Global Headquarters Country | Primary Competitive Attribute | Explain | |
| : | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| _ | 1 | | | | | | |
| В. | 5 | | | | | | |
| | entify your | organization's leading non-U.S. | . competitor in the manufactu | | , and identify their primary competitive | attribute. | |
| | | | | | op Non-U.S. Competitors | | |
| | | Competitor Name | Country | Global Headquarters Country | Primary Competitive Attribute | Explain | |
| : | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| 4 | 4 | | | | | | |
| į | 5 | | | | | | |
| | Commen | ts: | | | | | |
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DRAFT

| Pre | Previous Page Next F 11c: Competitive Challenges | | | | | | | | |
|-----|--|---|-----------------|---------------|--|--|--|--|--|
| | | | 11c: Competitiv | re Challenges | | | | | |
| Ple | ease | answer the following questions, and explain your answer. | | | | | | | |
| | | Russian/China Presence on the Global Uranium Market | -Yes/No- | Explain | | | | | |
| | 1 | Have restrictions on imports of Russian uranium affected your organization? | | | | | | | |
| А | 2 | Would your organization's posture be affected by an increased Russian presence in the U.S. or global market? | | | | | | | |
| | 3 | Will China's increasing global presence in the nuclear fuel sector affect your organization? | | | | | | | |
| | Т | Current Competitiveness | -Yes/No- | Explain | | | | | |
| | 1 | Has your organization changed its pricing practices in the past ten years? | | · | | | | | |
| | 2 | Has your organization engaged in any cost-cutting measures in order to compete with cheaper imports of uranium products and volatile prices? | | | | | | | |
| | 3 | Has your organization made significant operational or strategic changes in order to better compete in the uranium market? | | | | | | | |
| В. | 4 | Has the increasing presence of natural gas-fired power plants affected your organization's competitiveness? | | | | | | | |
| | 5 | Have renewable energy technologies (e.g. solar and wind) affected your organization's competitiveness? | | | | | | | |
| | 6 | Does the uranium concentration in ore recovered from U.S. mines impact your organization's competitiveness? | | | | | | | |
| | 7 | Has your organization been impacted by the lack of a U.Stechnology based civilian enrichment facility? | | | | | | | |
| Н | | International Markets and Factors | -Yes/No- | Explain | | | | | |
| | 1 | While the nuclear power sector is declining domestically in terms of number of facilities, it is growing globally. Do you plan to participate, or increase participation, in the global uranium market? | | | | | | | |
| | 2 | Apart from potential government subsidies, do you believe that foreign uranium producers operate at lower costs than U.S. producers? | | | | | | | |
| | 3 | Do you consider all international suppliers of uranium products to your organization reliable? | | | | | | | |
| C. | 4 | Do other countries' environmental standards give your international competitors an advantage? Describe. | | | | | | | |
| | 5 | Does the nuclear industry face challenges in complying with the Foreign Corrupt Practices Act (FCPA) when purchasing imported uranium products from foreign countries? Identify any specific countries where these practices, as defined in the FCPA, are prevalent. | | | | | | | |
| | 6 | Does your organization know of any direct subsidies or other state support received by your international competitors? | | | | | | | |
| | 7 | Has the 2011 Fukushima disaster impacted your organization's operations? Explain. | | | | | | | |
| | 8 | Do uranium producers operating in foreign market economies (e.g. Canada, Australia) have competitive advantages (e.g. geology, business practices, logistics chain) over U.S. producers? | | | | | | | |
| | 9 | Do regulatory or legislative frameworks give operators in foreign market economies (e.g. Canada, Australia) advantages over U.S. producers? | | | | | | | |
| | | Domestic Operations and Factors | -Yes/No- | Explain | | | | | |
| | 1 | Does the United States currently have the uranium resources and associated infrastructure available to support U.S. national defense and critical infrastructure needs for the foreseeable future? If no, what actions do you believe are necessary to enhance the U.S. nuclear infrastructure. | | | | | | | |

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| | 2 | If your organization operates a uranium mill, have you had to rely on "alternative feed material" instead of "traditional ore" to support your business? If so, is it a sustainable business model? | | |
|---|---|---|----------------------|-------------------------------------|
| D | 3 | Have any U.S. regulatory regime changes in the last ten years impacted your organization's current competitiveness? Please list specific changes. | | |
| | 4 | Have uranium market conditions affected your organization's ability to obtain financing for operations to remain solvent? | | |
| | 5 | Has the U.S. Department of Energy's program of selling off natural uranium and low enriched uranium (LEU) stocks affected your organization? | | |
| | | BUSINESS CONFIDENT | 1AL - Per Section 70 | D5(d) of the Defense Production Act |

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| | 12: Certification |
| knowledge. It is a criminal offense to willfully ma Government as to any matter within its jurisdicti | derein supplied in response to this questionnaire is complete and correct to the best of his/her ake a false statement or representation to any department or agency of the United States ion (18 U.S.C. 1001 (1984 & SUPP. 1197)). Bey, save a copy and submit it via email to Uranium232@bis.doc.gov. Be sure to retain your survey for |
| your records and to facilitate any necessary edit | |
| | |
| Organization Name | |
| Organization's Internet Address | |
| Name of Authorizing Official | |
| Title of Authorizing Official | |
| E-mail Address | |
| Phone Number and Extension | |
| Date Certified | |
| In the box below, provide any additional comme | ents 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 sur | vey? |
| BUSINESS C | CONFIDENTIAL - Per Section 705(d) of the Defense Production Act |

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