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OMB Control Number: 0694-0120
Expiration Date: November 30, 2019

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

Nuclear Power Generation Sector 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. nuclear power generation sector. 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, trade flows, supply chain networks, 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 nuclear power generation sector 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 Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C. Sec. 4555).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.

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General Instructions

A.	Your organization is required to complete this survey of the U.S. nuclear power generation sector using an Excel template, which can be downloaded from the BIS website: http://www.bis.doc.gov/nuclearoperator 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.
B.	Respond to every question. Surveys that are not fully completed will be returned for completion. Use the comment boxes to provide any information to supplement responses provided in the survey form. Make sure to record a complete answer in the cell provided, even if the cell does not appear to expand to fit all of the information. **DO NOT CUT AND PASTE RESPONSES WITHIN THIS SURVEY OR PASTE IN RESPONSES FROM OUTSIDE THE SURVEY.** Survey inputs should be completed by typing in responses or by using a drop-down menu. The use of cut and paste can corrupt the survey template If your survey response is corrupted as a result of cut and paste responses, 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 also 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, BIS, 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**
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.
Brownfield Site	A site suitable for industiral development or conversion to another type of generation facility. This is also defined uner Public Law 107-118 Section 211 as "a property; the expansion, redevelopment, or use of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant."
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.
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 precentage 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, including shipments to Canada and Mexico.
Facility	A building or the minimum complex of buildings or parts of buildings 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 group 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.
Fuel Assemblies	A structured group of fuel rods. These are long, slender, metal tubes containing pellets of fissionable material, which provide fuel for nuclear reactors.

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1: Organization Information

A. Provide the following information for your organization

Organization Name	
Street Address	
City	
State	
ZIP Code	
Location of Global Headquarters	
U.S. Point of Contact Name	
U.S. Point of Contact Email	
U.S. Point of Contact Phone	

B. Is this organization owned, in whole or in part, by any private or government entity? Indicate Yes/No, then identify the entities below, if applicable. List entities with at least 5% ownership.

Entity Name	Global Headquarters Street Address	Global Headquarters City	Global Headquarters State/Province	Global Headquarters Country	Ownership %

C. At the global headquarters level, identify the total number of nuclear power generation and nuclear power generation-related research and development facilities that your organization currently operates inside and outside the U.S.

Activity		Number of U.S. Facilities	Number of Non-U.S. Facilities
Nuclear Power Generation			
Research & Development			
Other	(specify)		

Comments:	

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

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2: Mergers, Acquisitions, Divestitures, and Joint Ventures

A

From 2014 - 2018, record the total number of mergers, acquisitions, and divestitures related to *nuclear power generation and/or nuclear power generation-related research and development* in which your organization participated.

	Organization or Partnership Entity Name	Type of Activity	% of Shares Held by Partner Organization	Country Headquarters	Year Initiated	Primary Work Scope	Primary Purpose of Relationship	Explain
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

B

From 2014 - 2018, record the total number of joint ventures (JV) and other business partnerships related to *nuclear power generation and nuclear power generation-related research and development* , including public/private partnerships, in which your organization participated.

	Organization or JV Entity Name	Type of JV	% of Shares Held by JV Organization	Country Headquarters	Year Initiated	Primary Work Scope	Primary Purpose of Relationship	Explain
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

C

From 2014 - 2018, record the total number of joint ventures and other business partnerships related to *nuclear fuel production or nuclear fuel-related research and development,* including public/private partnerships, in which your organization participated.

	Organization or JV Entity Name	Type of JV	% of Shares Held by JV Organization	Country Headquarters	Year Initiated	Primary Work Scope	Primary Purpose of Relationship	Explain
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Comments:

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3a: Facility Information

U.S. Facilities

Identify the total number of facilities that your organization owns in the United States involved in the generation of nuclear power.

List your organization's nuclear power generation facilities located in the United States, identifying each facility's name, city, state, operating status, reactor information, and any expected change in operations (e.g. expansion, worker layoffs, shutdown, etc.) from 2019-2023. If the facility operated in 2018, report the 2018 production volume in megawatthours (MWh). Even if a facility is closed, fill out all information possible.

	U.S. Facility Name	City	State	Operating Status	Merchant vs. Regulated	Number of Reactors	2018 Total Production Volume (MWh)	Amount of U3O8 Need to Run Facility Per Year at Full Capacity (Pounds)	Amount of U3O8 Needed To Run Facility Per Year at 90% Capacity (Pounds)	Reactor Unit No.	Status of Reactor	Reactor Type	Reactor Vendor	Number of Current Active Fuel Assembly Suppliers	Number of Fuel Assemblies Required to Operate Per Year	Licensed MWe	Expected Change 2019-2023	Explanation of Change, If Applicable
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

If any of your U.S. facilities are scheduled to close or may close in the 2019-2023 period, explain the circumstances of this action.

Non-U.S. Facilities

Identify the total number of facilities that your organization owns outside the United States involved in the generation of nuclear power.

List your organization's nuclear power generation facilities located outside the United States, identifying each facility's name, city, state, operating status, reactor information, and any expected change in operations (e.g. expansion, worker layoffs, shutdown, etc.) from 2019-2023. If the facility was operating, report the 2018 production volume in megawatthours (MWh). Even if a facility is closed, fill out all information possible.

	Non-U.S. Facility Name	City	Country	Operating Status	Merchant vs. Regulated	Number of Reactors	2018 Total Production Volume (MWh)	Amount of U3O8 needed to run facility per year (Pounds)	Amount of U3O8 Needed To Run Facility Per Year at 90% Capacity (Pounds)	Reactor Unit No.	Status of Reactor	Reactor Type	Reactor Vendor	Number of Current Active Fuel Assembly Suppliers	Number of Fuel Assemblies Required to Operate	Licensed MWe	Expected Change 2019-2023	Explanation of Change, If Applicable
1																		
2																		
3																		
4																		

5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

If any of your non-U.S. facilities are scheduled to close or may close in the 2019-2023 period, explain the circumstances of this action.	

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3b: Facility Inventory

Provide all U.S. and non-U.S. inventories held directly or indirectly by you for the 2014 to 2018 period, current as of the end of calendar year 2018.

U.S. Facilities

For any facility in the U.S., whether that facility is owned by you or another organization, indicate which forms of uranium your organization maintains in inventory, and the amounts of each in inventory for the 2014 to 2018 period, utilizing the provided uranium measurements. Inventory includes uranium held in your organization's account at a converter, enricher, fuel fabricator, or other facility.

	Facility Location (City, State)	Facility Owner	Operating Status	Types of Uranium in Inventory	-Yes/No-	2014	2015	2016	2017	2018
1				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
2				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
3				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
4				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
5				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
6				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
7				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
8				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
9				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
10				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						

11				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
12				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
13				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
14				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
15				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						

Non-U.S. Facilities

For each non-U.S. location, whether that facility is owned by you or another organization, indicate which forms of uranium your organization maintains in inventory, and the amounts of each in inventory for the 2014 to 2018 period, utilizing the provided uranium measurements. Inventory includes uranium held in your organization's account at a converter, enricher, fuel fabricator, or other facility.

	Non-U.S. Facility Location	Facility Owner	Operating Status	Types of Uranium in Inventory		2014	2015	2016	2017	2018
1				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
2				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
3				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
4				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
5				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
6				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						

7				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
8				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
9				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
10				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
11				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
12				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
13				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
14				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						
15				Uranium Ore and Concentrates (Pounds U3O8)						
				Uranium Compounds (Oxide, Hexafluoride, Other) (KgU)						
				Depleted Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Enriched Uranium (Oxide, Hexafluoride, Other) (KgU)						
				Fuel Assemblies (Finished Units)						

Comments:

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3c: Facility Refueling Cycle

Provide the following information pertaining to the reloading/refueling cycle for each of your organization's facilities, current as of the end of calendar year 2018. If your organization operates two different reactor types at the same facility, separately report refueling information for each reactor type.

A.

	U.S. Facility Location (City, State)	Fresh Fuel Batch Size (Number of Assemblies)	Uranium Contained in Fresh Fuel Batch (Pounds U3O8 Equivalent)	Percentage of Total Reactor Assemblies Replaced During Refuel	Refueling Cycle Length (Months)	Refueling Outage Length (Days)	Fuel Cycle Costs as Percentage of Total Facility Operating Costs				
							U3O8 Acquisition (Mining, Milling)	Conversion Services/UF6 Acquistion	Enrichment Services/EUP Acquistion	Fuel Fabrication Services	Aggregate Fuel Cycle Expenses as Percentage of Total Facility Operating Costs
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Since 2014, has your organization considered or implemented changes in a facility's refueling cycle (e.g. lengthening the refueling cycle)?		If yes, describe:	
Describe your organization's typical process for procuring nuclear fuel.			
Comments:			

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3d: Changes in Facility Operations, 1999-2018

Identify any U.S. nuclear power generation 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 reasons for the change in operations (e.g.,loss of market share to imports, loss/gain of market share from domestic competition, increasing/declining demand, low/high profitability, firm restructuring), and megawatt hours of nuclear power impacted, as well as number of full-time-equivalent (FTE) employees impacted. Denote reductions by placing the amount in brackets (e,g,. "[5000]"). If a single facility has gone through multiple changes, list the facility on multiple lines and identify each separately.

A.

	Facility Name, Location (City, State)	Type of Change	Date of Change	Reason for Change	Annual MWh Capacity	Annual MWh Impacted	Number of FTEs Impacted	Explanation
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
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Answer the following questions about facility changes in Section B and C.

If one of your organization's facilities was on standby and had not discharged its operator license, OR has discharged its operator license, how long would it take, if possible, to fully restart operations at that facility? 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.

	Location (City, State)	Status	Estimated Time to Restart (In Years)	Estimated Cost to Restart (in Thousands USD)	Factors Inhibiting Restart		Estimated Cost of Each Factor (in Thousands USD)	Explain
					Factor	Degree of Impact		
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C	Describe the costs associated with maintaining a facility in standby, and estimate the total costs involved in maintaining a standby facility.			
	Would your organization opt to maintain a facility in standby?		If yes, explain.	
	Describe the costs and regulatory factors associated with maintaining a "brownfield" site.			
	Describe the costs and regulatory factors associated with building a "greenfield" facility.			
	Comments:			

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Next Page

4: Production Capacity

Provide the facility-level information regarding production capacity and CO2 offset below.

		Facility Name	Facility Location	Reactor Type	Average Annual Production 2014-2018 (MWh)	Average Annual Production Capacity 2014-2018 (MWh)	Average Capacity Utilization 2014-2018 (%)	Explanation for Difference Between Production Capacity and Annual Production, If Applicable	Fuel Cycle Cost as % of MWh Cost				Annual Estimated Facility CO2 Offset (Tons)
									Uranium Concentrate (U3O8)	UF6 Conversion	Enrichment	Fuel Fabrication	
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B.	1	Are your facilities capable of load following (e.g. ramping up and down electric output depending on demand)? Explain.		If yes, explain.
	2	What changes to supply factors would contribute the most to change in MWh cost? Explain.		

Comments:	

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Next Page

5: Permits

A. Provide the current permit information for your facilities below for both the state and federal level. Include permits for environmental and safety aspects.

	Location (City, State)	Permit Type	Issuing Agency	Cost of Permit	Average Length (in Years) of Processing Time	Original Permit Date	Original Permit Expiration Date	Number of Renewal Applications	Average Renewal Application Length (in Years)	Expiration Date of Current Permit	Plans to Renew Current Permit	Explanation
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B.

1	Has your organization had difficulty obtaining permits for operation? If yes, explain below.	
2	Have your permitting costs increased in the last ten years? If yes, explain below.	
3	If you indicated that your organization does not plan to renew a permit, describe the factors that have influenced those decisions below.	
4	Does your organization have any suggestions that would help improve the permitting process?	

Comments:	

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6: Financials

Provide the following financial line items for your organization's nuclear power generation-related U.S. operations below for the 2014 to 2018 period.

		Income Statement (Select Line Items)	Record $ in Thousands, e.g. $12,000.00 = survey input of $12				
			2014	2015	2016	2017	2018
1	A.	Net Sales (and other revenue)					
	B.	Cost of Goods Sold					
	C.	Total Operating Income (Loss)					
	D.	Earnings Before Interest and Taxes					
	E.	Net Income					

		Balance Sheet (Select Line Items)	Record $ in Thousands, e.g. $12,000.00 = survey input of $12				
			2014	2015	2016	2017	2018
2	A.	Cash					
	B.	Inventories					
	C.	Total Current Assets					
	D.	Total Assets					
	E.	Total Current Liabilities					
	F.	Total Liabilities					
	G.	Retained Earnings					
	H.	Total Owner's Equity					

Note: Total Assets must equal Total Liabilities plus Total Owner's Equity

		2014	2015	2016	2017	2018
3	Total Revenue per MWh					
	Total Operating Costs per MWh					

		2014	2015	2016	2017	2018
4	Federal Taxes Paid					
	State Taxes Paid					
	Local Taxes Paid					

Comments:	

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

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7: Capital Expenditures

Record your organization's nuclear power generation-related capital expenditures corresponding to the select categories below for the 2014 to 2018 period.

	Capital Expenditure Activity Type	Record $ in Thousands, e.g. $12,000.00 = survey 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]					
4	Other (Specify) [as a % of A]					
5	Other (Specify) [as a % of A]					
Lines 1 through 5 must total 100%		0%	0%	0%	0%	0%

B For the below categories, indicate whether your organization experienced significant changes (increases, decreases, or both), in capital expenditures over the past ten years (2009-2018). Explain what factors have been affecting changes in your organization's capital expenditures from 2009 to 2018, including, but not limited to, U.S. Government or state government policies or regulations, domestic and foreign competition, and changing fuel costs.

		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:

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8: Research & Development

A.	Has your organization conducted nuclear power generation-related research and development (R&D) in the past ten years?		If no, proceed to Section 9.

Record your organization's total R&D dollar expenditures and type of R&D expenditure for the 2014 to 2018 period.

			Record $ in Thousands, e.g. $12,000.00 = survey input of $12				
			2014	2015	2016	2017	2018
B.	1	Total R&D Expenditures					
	2	Basic Research [as a % of B1]					
	3	Applied Research [as a % of B1]					
	4	Product/Process Development [as a % of B1]					
	5	Total of 2 - 4 [must equal 100%]	0%	0%	0%	0%	0%

Identify your organization's R&D funding sources, by percent total of R&D dollars sourced.

				Record $ in Thousands, e.g. $12,000.00 = survey input of $12				
				2014	2015	2016	2017	2018
C.	1	Total R&D Funding Sources						
	2	Internal/Self-Funded/IRAD [as a % of C1]						
	3	Total Federal Government [as a % of C1]						
	4	Total State and Local Government [as a % of C1]						
	5	Universities - Public and Private [as a % of C1]						
	6	U.S. Industry, Venture Capital, Non-Profit [as a % of C1]						
	7	Non-U.S. Investors (as a % of C1]						
	8	Other	(specify)					
	9	Total of 2 - 8 [must equal 100%]		0%	0%	0%	0%	0%

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 constraints.	

E	Is your organization currently working with any non-U.S. partners with respect to R&D activities?				If yes, complete the information below:		
		Partner Organization	Headquarters Country	Partnership Start Date	Goal of Partnership	Reason for choosing Partner	Percent of R&D Expenditures
	1						
	2						
	3						
	4						
	5						

Comments:	

6. Deliveries, 2014-2018

Identify all purchases of uranium products or contracts for fuel cycle services made by your organization with delivery dates between 2014-2018. Additionally, identify all contract fulfillments for fuel cycle services anticipated for the 2014-2018 period. For the Deliveries as Percentages of Fuel Capital Budget columns- if a given contract did not cover one of the years in the 2014-2018 period, enter NA in the applicable column(s). (e.g. if a contract only had deliveries for 2014 through 2016, but none in 2017 or 2018, enter NA in the 2017 and 2018 columns. "Open Origin" contracts are defined as contracts which permit uranium supplied under the contract to be sourced from any country.

A - Uranium One (Pounds)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
																Percentage of 2014 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2014 Fuel Capital Budget (Thousands USD)	Percentage of 2015 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2015 Fuel Capital Budget (Thousands USD)	Percentage of 2016 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2016 Fuel Capital Budget (Thousands USD)	Percentage of 2017 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2017 Fuel Capital Budget (Thousands USD)	Estimated Percentage of 2018 Fuel Capital Budget (Pounds U3O8 Equivalent)	Estimated Percentage of 2018 Fuel Capital Budget (Thousands USD)
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Comments

B - Uranium Concentrate (Pounds U3O8)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
																Percentage of 2014 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2014 Fuel Capital Budget (Thousands USD)	Percentage of 2015 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2015 Fuel Capital Budget (Thousands USD)	Percentage of 2016 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2016 Fuel Capital Budget (Thousands USD)	Percentage of 2017 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2017 Fuel Capital Budget (Thousands USD)	Estimated Percentage of 2018 Fuel Capital Budget (Pounds U3O8 Equivalent)	Estimated Percentage of 2018 Fuel Capital Budget (Thousands USD)
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Comments

C - Uranium Metal (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Comments

D - Natural Uranium - Not Compounds (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Uranium Compounds - Oxide (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Uranium Compounds - Hexafluoride (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Uranium Compounds - Other (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Depleted Uranium - Oxides (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Depleted Uranium- Flourides (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Depleted Uranium- Other (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Comments

Depleted Uranium- Metal (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Comments

Enriched Uranium Oxide (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Enriched Uranium Hexafluoride (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Enriched Uranium - Other (Pounds U3O8 Equivalent)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Conversion Services

If your organization did not receive any fulfillments from contracts for conversion services in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Enrichment Services

If your organization did not receive any fulfillments from contracts for enrichment services in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Finished Fuel Assemblies (PWR, BWR, or Other) (Finished Units)

If your organization did not receive any deliveries of this product in the 2014-2018 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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10. Future Deliveries, 2019-2023

Identify all purchases of uranium products or contracts for fuel cycle services made by your organization with delivery dates between 2019 and 2023. Additionally, identify all contract fulfillments for fuel cycle services anticipated for the 2019-2023 period. For the Deliveries as Estimated Percentages of Fuel Capital Budget columns: If a given contract did not cover one of the years in the 2019-2023 period, enter NA in the applicable column(s). (e.g. if a contract only had deliveries for 2020 through 2021, but none in 2022 and 2023, enter NA in the 2022 and 2023 columns.) "Open Origin" contracts are defined as contracts which permit uranium supplied under the contract to be sourced from any country.

Uranium Ore (Pounds)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Uranium Concentrate (Pounds U3O8)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Uranium Metal (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Natural Uranium - Not Compounds (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Next Page

Uranium Compounds - Oxide (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Uranium Compounds - Hexafluoride (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered	Value of Quantity Delivered (thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Uranium Compounds - Other (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Depleted Uranium - Oxides (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Depleted Uranium- Flourides (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Depleted Uranium- Other (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Depleted Uranium- Metal (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
																Percentage of 2016 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2014 Fuel Capital Budget (Thousands USD)	Percentage of 2015 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2015 Fuel Capital Budget (Thousands USD)	Percentage of 2016 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2016 Fuel Capital Budget (Thousands USD)	Percentage of 2017 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2017 Fuel Capital Budget (Thousands USD)	Estimated Percentage of 2018 Fuel Capital Budget (Pounds U3O8 Equivalent)	Estimated Percentage of 2018 Fuel Capital Budget (Thousands USD)
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Comments

Enriched Uranium Oxide (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
																Percentage of 2016 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2014 Fuel Capital Budget (Thousands USD)	Percentage of 2015 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2015 Fuel Capital Budget (Thousands USD)	Percentage of 2016 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2016 Fuel Capital Budget (Thousands USD)	Percentage of 2017 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2017 Fuel Capital Budget (Thousands USD)	Estimated Percentage of 2018 Fuel Capital Budget (Pounds U3O8 Equivalent)	Estimated Percentage of 2018 Fuel Capital Budget (Thousands USD)
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Comments

M — Enriched Uranium Hexafluoride (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
																Percentage of 2014 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2014 Fuel Capital Budget (Thousands USD)	Percentage of 2015 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2015 Fuel Capital Budget (Thousands USD)	Percentage of 2016 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2016 Fuel Capital Budget (Thousands USD)	Percentage of 2017 Fuel Capital Budget (Pounds U3O8 Equivalent)	Percentage of 2017 Fuel Capital Budget (Thousands USD)	Estimated Percentage of 2018 Fuel Capital Budget (Pounds U3O8 Equivalent)	Estimated Percentage of 2018 Fuel Capital Budget (Thousands USD)
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Comments

N — Enriched Uranium – Other (Pounds U3O8 Equivalent)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Comments

O — Conversion Services

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Comments

P — Enrichment Services

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Comments

Finished Fuel Assemblies (PWR, BWR, or Other) (Finished Units)

If your organization does not anticipate any deliveries of this product in the 2019-2023 period, please choose "Not Applicable" in the space provided.

	Seller Name	Country of Seller Headquarters	Number of Deliveries Per Year	Date of Contract Signature	Type of Contract	Pricing Mechanism	Contract Completed?	Years Remaining on Contract (If Applicable)	Date of Contract Renegotiation (If Applicable)	Reason for Contract Renegotiation (If Applicable)	Open Origin	Country of U3O8 Origin	Price Per Unit (USD)	Quantity Delivered Per Calendar Year	Value of Quantity Delivered (Thousands USD)	Deliveries as Percentages of Fuel Capital Budget									
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Comments

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11: Projected Enrichment Shipments and Uranium Requirements, 2019-2028

Provide the following information about projected shipments to enrichment services providers and unfilled uranium requirements for 2019 to 2028.

	Projected Shipments to Enrichment Services Providers (Pounds U308 Equivalent)									
A	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

	Unfilled Uranium Requirements (Pounds U308 Equivalent)									
B	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

C	Has your organization changed its timeframe for filling uranium requirements? (e.g., if your organization previously filled requirements five years in advance but now only fills three years in advance) Explain.	

Comments:	

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12: Logistics

Provide the following information about transportation of uranium products purchased by your organization, regardless of whether transport arrangements were made by your organization or the uranium processor. Note that initial port of export is defined as the first port through which a uranium product leaves a non-U.S. country after your organization has acquired title to the product.

A. Uranium Products

	Top Ten Initial Ports of Export (Ranked by Volume of Pounds U3O8 equivalent)	Carriers Serving Port	Percentage of Total Imports of Uranium Products
1			
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B.

1	If any of the ports listed above were to be closed, what alternative ports would be used to transport your uranium products.	
2	Describe difficulties your organization has encountered, if any, in complying with the Foreign Corrupt Practices Act as pertains to the transportation and export of uranium products.	

Comments:	

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13: Employment

Record the total number of full time equivalent (FTE) employees and contractors involved in your organization's nuclear power generation and nuclear power generation-related research and development enterprises for 2009, and again for the 2014 to 2018 period.

A

	2009	2014	2015	2016	2017	2018
FTE Employees						
FTE Contractors						

Record the total number of employees for each occupation type below for 2009, and 2014 to 2018. Yearly totals should reflect the number of employees at the end of a given calendar year. Include projected data for 2019 numbers (estimates accepted).

B

Occupation	2009	2014	2015	2016	2017	2018	2019 (Projected)
Engineering (Civil, Electrical, Mechanical, Chemical, Other)							
Engineering (Nuclear)							
Nuclear-Related Administrative Professions (Nuclear Planning, Nuclear Oversight)							
Non-Nuclear Administrative Professions (Accountants, Financial, Lawyers)							
Nuclear Technicians & Radiation Workers (Radiation Protection Specialists, Reactor Operators, Control Room Personnel)							
Security Personnel (Guards, Emergency Management)							
Skilled Trades (Carpenters, Masons, Pipefitters, Sheet metal workers, Welders)							
Other (specify here)							

Provide the following information about employment difficulties, workforce age, educational requirements, vacancies, and changes in employment.

C

Occupation	Difficulty	Explanation for Difficulty, if Applicable	Current Average Age of Worker (2018)	Educational Requirements (Formal and On-The-Job)	On-The-Job Training Requirements (OJT)	Current Number of Vacancies (2019)	Average Weeks Vacant	Explanation
Engineering (Civil, Electrical, Mechanical, Chemical, Other)								
Engineering (Nuclear)								
Nuclear-Related Administrative Professions (Nuclear Planning, Nuclear Oversight)								
Non-Nuclear Administrative Professions (Accountants, Financial, Lawyers)								
Nuclear Technicians & Radiation Workers (Radiation Protection Specialists, Reactor Operators, Control Room Personnel)								
Non-Nuclear Technicans (Heavy Equipment Operators, Mechanics, Electricians)								
Security Personnel (Guards, Emergency Management)								
Skilled Trades (Carpenters, Masons, Pipefitters, Sheet Metal Workers, Welders)								
Other (specify here)								

D

Does the industry experience any amount of workforce cross-over between commercial power generation and U.S. Government nuclear activities? Explain.

E

Are the skills associated with the workforce in your organization transferable to other industries? Explain.

F

Does the geographic location of your organization's facilities play any role in the challenges in hiring, retaining, and rehiring employees? Explain.

G

If one of your facilities were idled, how long do you reasonably anticipate being able to rehire workers laid off due to the idling?

H

If your organization utilizes or provides consulting services that assist in optimizing core business processes relating to your organization's role in the nuclear fuel cycle, describe the types of firms you work with, and the substance of the consulting work.

Comments:

14a: Market Trends

A. From 2009 to 2018, indicate whether uranium import competition has affected your U.S. power generation, operating costs, or nuclear power-related planned expansions, investments, etc. Explain your answers.

	Item	Yes/No	Explain
1	Power Generation		
2	Operating Costs		
3	Employment		
4	Planned Expansions		
5	Return on Investment		
6	Investments		
7	Ability to Raise Capital		
8	Existing Development/ Production Efforts		
9	Scale of Capital Investments		
10	Other (specify here)		

B. Does your organization anticipate any effects on its business due to future imports of any type of uranium or nuclear fuel assemblies into the United States, including those from countries with state-owned enterprises such as Russia, Kazakhstan, Uzbekistan, and China? Indicate Yes/No to the right and explain below.

1	Russia		
2	Kazakhstan		
3	Uzbekistan		
4	China		
5	France		
6	Canada		
7	Australia		
8	Other (specify here)		
9	Other (specify here)		
10	Other (specify here)		

C. If there were no U.S. facilities performing any of the following functions of the fuel cycle, would your organization's nuclear fuel acquisition be impacted? Explain your answers for each stage of the fuel cycle.

	Stage of Fuel Cycle	Yes/No	Explain
1	Uranium Mining		
2	Uranium Milling		
3	Uranium Conversion		
4	Uranium Enrichment		
5	Fuel Fabrication		

D. Describe the top 5 most significant challenges to the competitive position of your organization's U.S. nuclear operations in the U.S. energy market.

1	
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Describe the top 5 most significant challenges to the competitive position of your organization's non-U.S. nuclear operations in the non-U.S. energy market.

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E. Are there proposed regulatory or legislative initiatives at the federal or state level that would improve the financial viability of your organization's nuclear power generation facilities? Explain below.

Comments:	

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14b: Competitive Environment

Provide the following information, then explain your answers.

		Prices and Practices	-Yes/No-	Explain
A	1	Has your organization engaged in any cost-cutting measures in order to better compete in the power generation market?		
	2	Has your organization made significant operational or strategic changes in order to better compete in the power generation market?		
	3	Does your organization incorporate security of supply considerations in its assessment of reliability and risk as pertains to selection of uranium suppliers?		

		Operational Practices	-Yes/No-	Explain
B	1	Do your organization's nuclear power facilities provide baseload generation capacity?		
	2	Have any of your facilities had to reduce electrical output due to market conditions?		
	3	Is your organization considering a change in any of your facilities' operating flexibility to respond to market conditions?		
	4	In the event of a disruption in fuel delivery to any of your facilities, would your organization need to decrease output at that facility?		
	5	In the event of a disruption in fuel delivery to any of your facilities, how long could your facility continue to generate electricity at full capacity?		

		Regulatory Factors and Competition	-Yes/No-	Explain
C	1	Has your organization experienced difficulties selling energy due to competition from solar and wind producers, particularly those who sell energy at zero or negative cost?		
	2	Have state Renewable Portfolio Standards had an impact on your facilities' viability?		
	3	Have federal or state regulatory frameworks affected your organization's ability to economically operate your power generation facilities?		
	4	Does your organization perceive that current energy pricing does not reflect the value of nuclear energy?		
	5	Has the increasing presence of natural gas-fueled power generators affected your organziation's competitiveness?		

	6	Does your organization receive any state or federal subsidies for facilities involved in the generation of nuclear power?		
	7	Has the U.S. Department of Energy's program of selling off natural uranium and LEU stocks affected your organization?		
	8	Does your organization perceive that NRC-mandated regulatory upgrades since 1999 were warranted?		
		International Operations and Factors	-Yes/No-	Explain
D	1	Excluding direct government subsidies, do you believe that non-U.S. uranium producers operate at lower costs than U.S. producers? Explain.		
	2	Does your organization consider environmental, health, safety, and labor standards in foreign countries when considering business with non-U.S. suppliers?		
	3	Does your organization purchase uranium products from Russia, China, Kazakhstan, and Uzbekistan? If so, describe what factors your organization considers in its risk analysis reports for these countries.		
	4	Will China's increasing presence in the nuclear fuel sector affect your organization?		
	5	Have you been approached by representatives of Chinese nuclear fuel suppliers about future sales?		
	6	Has the 2011 Fukushima disaster impacted your organization's nuclear power operations?		
	7	Have foreign suppliers offered to offset any potential costs imposed by a potential remedy under Section 232?		
	8	Do uranium producers operating in non-U.S. 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?		
	10	Has your organization dealt with any supply disruptions from foreign sources in the past five years? Explain.		
		Russian Presence on the Global Uranium Market	-Yes/No-	Explain
E	1	Have restrictions on imports of Russian uranium affected your organization?		
	2	Would your organization's posture be affected by an increased Russian presence in the U.S. market?		
	3	Would your organization plan to purchase more Russian-origin uranium if the suspension agreement ends in 2020?		

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15: Certification

The undersigned certifies that the information herein supplied in response to this questionnaire is complete and correct to the best of his/her knowledge. It is a criminal offense to willfully make a false statement or representation to any department or agency of the United States Government as to any matter within its jurisdiction (18 U.S.C. 1001 (1984 & SUPP. 1197)).

Once your organization has completed this survey, 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 edits or clarifications.

BIS Survey Website https://www.bis.doc.gov/nuclearoperator

Organization Name	
Organization's Internet Address	
Name of Authorizing Official	
Title of Authorizing Official	
E-mail Address	
Phone Number and Extension	
Date Certified	

In the box below, provide any additional comments or any other information you wish to include regarding this survey assessment.

How many hours did it take to complete this survey?	

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