Next Page

OMB Control Number: 0694-0119 Expiration Date: September 30, 2023

UNITED STATES INFLUENZA VACCINE INDUSTRIAL BASE ASSESSMENT



SCOPE OF ASSESSMENT

The U.S. Department of Commerce, Bureau of Industry and Security (BIS), Office of Technology Evaluation (OTE), in partnership with the Department of Health and Human Services' Biomedical Advanced Research and Development Authority (BARDA), is conducting a survey of U.S. influenza vaccine manufacturers and their suppliers providing raw or starting materials, active pharmaceutical ingredients, or other consumables required for manufacturing influenza vaccine products. The survey results will be incorporated into a comprehensive report that presents the current state of the influenza vaccine industrial base, including existing supply chain vulnerabilities, production capacities, emergency response capabilities, and other trends from the survey data analyses. Additionally, the report will give recommendations to help improve the resiliency of the influenza vaccine supply chain in the face of future public health emergencies.

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 Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C. Sec. 4555).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 18 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to BIS Information Collection Officer, Room 6883, Bureau of Industry and Security, U.S. Department of Commerce, Washington, D.C. 20230, and to the Office of Management and Budget, Paperwork Reduction Project (OMB Control No. 0694-0119), Washington, D.C. 20503.

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Previo	us Page Next Page
	Table of Contents
ı	Cover Page
- 11	Table of Contents
III	General Instructions
IV	<u>Definitions</u>
1	<u>Location Information</u>
2	Organization Information
3	Product Capabilities
4	Product Assortment
5	Production Capacity
6	Manufactured Inputs
7	<u>Suppliers</u>
8	Capital Equipment
9	Procurement and Logistics
10	<u>Customers</u>
11	Government Support
12	Export Controls
13	<u>Technology</u>
14	Health and Safety Practices
15	<u>Employment</u>
16	<u>Cybersecurity</u>
17	<u>Financials</u>
18	<u>Challenges</u>
19	<u>Certification</u>
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Prev	ious Page Next Page
	General Instructions
	Your location is required to complete this survey on the U.S. influenza vaccine industrial base.
	Your location has been identified as a manufacturer, distributor, supplier, or service provider of a product or input required in the manufacturing of the influenza vaccine.
A.	You must complete the survey using the Microsoft Excel-based template which can be downloaded from the secure Census Bureau portal: https://respond.census.gov/XXXX
	For your convenience, a PDF version of the survey and required drop-down content is available at the Census Bureau portal 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 Excel format.
	THIS SURVEY IS LOCATION-BASED (see "Location" in Definitions tab). The majority of the information provided in this survey should be provided at the location level. Carefully read the instructions associated with each prompt and respond accordingly.
-	Respond to every question. Surveys that are incomplete will be returned for completion. Use the comment boxes at the bottom of every section to provide any supplemental information. Make sure to record a complete answer in the cell provided, even if the cell does not appear to expand to fit all the information. Refer to the "Definitions" section while completing the survey.
B.	Fill out the survey tabs in sequential order and AVOID SKIPPING TABS. Some information will auto-generate based on responses in previous tabs.
	DO NOT COPY AND PASTE RESPONSES WITHIN THIS SURVEY. Inputs to the survey are to be made via keyboard or drop-down menus. The use of copy/paste can corrupt the file. If your submittal is corrupted due to copy/pasted responses your organization will be required to download an additional survey from the portal and resubmit.
C.	Do not disclose any <u>classified</u> information in this survey form.
D.	Submit your completed survey only through the secure Census Bureau portal: https://respond.census.gov/XXXX
	Do not email surveys to BIS.
E.	Questions related to the survey content should be directed to BIS survey support staff at XXXsurvey@bis.doc.gov
	Email is the preferred method of contact.
	For questions related to the overall scope of the industrial base survey and assessment, contact XXXsurvey@bis.doc.gov or:
	Jason Bolton Director, Defense Industrial Base Division
F.	BIS/Export Administration/Office of Technology Evaluation 1401 Constitution Avenue, NW, Room 1093 Washington, DC 20230
	DO NOT submit completed surveys to Mr. Bolton.
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Previous Page	Next Page Definitions
Term	Definition
Active Pharmaceutical Ingredients	The active components in a pharmaceutical drug that produce the intended effect on the body to treat a condition.
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.
Biosafety Level	The level of the biocontainment precautions required to isolate dangerous biological agents in an enclosed facility, as defined by the Centers for Disease Control and Prevention.
Blockchain	A method of storing digital information on a secured, public database that allows for tracing of products through the supply chain. Each transaction is verified and recorded as a block in the blockchain ledger.
Brute Force	A method of accessing an obstructed device through attempting multiple combinations of numeric/alphanumeric passwords.
Capability	Having the ability to provide the product or service within 12 months in typical business conditions.
Capacity Utilization	The extent to which a facility is achieving its full productive capacity.
Capacity Utilization Rate	(actual output per period / full capacity per period) x 100
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.
Chemical Abstracts Service (CAS) Number	A unique numerical identifier assigned by the Chemical Abstracts Service (CAS) to every chemical substance described in the open scientific literature.
	Find CAS registry numbers here: https://www.cdc.gov/niosh/npg/npgdcas.html
Cloud Computing	The delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet ("the cloud").
Code/SQL Injection	A type of cyberattack that looks for web sites that pass insufficiently-processed user input to database back-ends.
Commercial and Government Entity (CAGE) Code	A unique identifier used for companies doing or wishing to do business with the U.S. Federal Government. The code is used to support mechanized government systems and provides a standardized method of identifying a given facility at a specific organization.
	Find CAGE codes here: https://cage.dla.mil
Corporate Linkage	An identifier that reflects the relationship between different businesses within a corporate family.

	Definitions
Term	Definition
Cost Plus Contract	A cost-reimbursement contract that provides for payment to the contractor of a negotiated fee that is fixed at the inception of the contract. The fixed fee does not vary with actual cost, but may be adjusted as a result of changes in the work to be performed under the contract.
Customer	An entity to which an organization directly delivers the product or service that it produces. A customer may be another organization or another facility owned by the same parent organization. The customer may be the end user for the item but often can be the immediate link in the supply chain, adding additional value before transferring the item to yet another customer.
Cybersecurity	The body of technologies, processes, and practices designed to protect networks, computers, programs, and data from attack, damage, or unauthorized access.
Diagnostic Testing	The use of tests to identify a medical condition, the cause of a medical condition, and/or the progression of a medical condition.
Distributor	An independent selling agent who has a contract to sell the products of a manufacturer.
Exports	Shipments to destinations outside the United States.
External Company	A company that is not within your own organization.
External Technology Transfer	The transfer of technological products, processes, or knowledge from an original innovator to an outside entity such as a contract manufacturing organization.
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.
Headquarters	A location that serves as an organization's hub of operations with all branches or divisions reporting to it.
IIV3	A trivalent inactivated influenza vaccine. When referring specifically to adjuvanted vaccine, the prefix "a" is used (e.g., allV3).
IIV4	A quadrivalent inactivated influenza vaccine. When referring specifically to adjuvanted vaccine, the prefix "a" is used (e.g., allV3). When referring specifically to cell culture-based vaccine, the prefix "cc" is used (e.g., cclIV4). When referring specifically to High-dose vs. Standard-dose vaccines, the prefixes "HD-" and "SD-" are used (e.g., HD-IIV3 vs. SD-IIV4).

	Definitions
Term	Definition
Infectious Disease Therapeutics	Therapies and treatments used to alleviate or prevent specific diseases or medical conditions that spread from person to person. This includes antibiotics, antifungals, anthelmintics, antimalarials, antiprotozoals, antituberculosis agents, and antivirals, which are can used to treat infectious diseases such as HIV/AIDS, influenza, hepatitis, malaria, and tuberculosis.
Infectious Disease Vaccines	Biological preparations that improve immunity to infectious diseases such as polio, influenza, hepatitis, measles, and pneumonia.
Influenza Vaccine-Related Products	Raw and key starting materials, active pharmaceutical ingredients, consumables, and production equipment required for manufacturing influenza vaccine products, including end-use influenza vaccines. Includes but is not limited to product categories listed in the <i>Product Capabilities</i> section of this survey.
International Union of Pure and Applied Chemistry (IUPAC) Name	A systematic method of naming organic chemical compounds as recommended by the International Union of Pure and Applied Chemistry.
	More information here: https://iupac.org/what-we-do/nomenclature/brief-guides/
Inventory	The goods or materials an organization holds for its own use or for the ultimate goal of sale.
ISO 28000	An international standard addressing the requirements of a security management system for the supply chain.
Live Attenuated Influenza Vaccine (LAIV)	More information here: https://www.iso.org/standard/79612.html A live attenuated influenza vaccine. This vaccine is administered intranasally.
Location	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 location 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. A location could include 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 Data Universal Numbering System (DUNS) number.
Logistics Management Information System	A system of records and reports used to aggregate, analyze, validate and display data from all levels of the logistics system that can be used to make logistics decisions and manage the supply chain.

	Definitions
Term	Definition
Manufacturer	An organization that uses labor and capital to convert raw materials into finished or semi-finished goods. For purposes of this survey, manufacturing includes integration, assembly, and/or fill finish.
Manufacturing Defect	Errors or contamination that occurs during the production phase that only affect certain units or batches of a product, rather than all products in a line,
Medical Consumables	Non-durable medical supplies that cannot withstand repeated use, are usually disposable, and are generally not used in the absence of illness or injury.
Non-Infectious Disease Therapeutics	Therapies and treatments for disease that is not spread from person to person. This includes treatments for noncommunicable diseases such as cancer, cardiovascular disease, diabetes, genetic disease, mental disorders, and chronic respiratory diseases.
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 the location capable of manufacturing or distributing influenza vaccine products.
Over the Counter (OTC) Pharmaceuticals	Medicines sold directly to consumers without need for a prescription from a medical professional.
Partnership	Any type of service or collaboration agreement between two parties under which proprietary information can be shared in either tangible or non-tangible forms.
Priority Rated Orders (Defense Priorities and Allocations System)	A rated order is a contract or order placed in support of a national defense program, pursuant to section 101(a) of the DPA. A rated order takes precedence over all unrated orders, when necessary to meet delivery dates specified in the rated order. A priority rating consists of a rating – either "DO" or "DX" – and an alpha numeric program identification symbol (PIS), such as "N3." Between priority ratings, a DX rated order takes precedence over all DO rated orders.
Production	The process of transforming inputs (raw materials, semi-finished goods, subassemblies, fill finish) into goods or services.
Research and 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.
RIV4	A quadrivalent recombinant influenza vaccine.
Sales	All reported and unreported sales of subject products, including sales to end-users, producers, financial entities, intermediaries, traders, distributors, et al.
Scrap	Goods that become waste or are recycled due to defects or errors during manufacturing.

	Definitions
Term	Definition
Sensitive Information	Privileged or proprietary information which, if compromised through alteration, corruption, loss, misuse, or unauthorized disclosure, could cause serious harm to the information's owners.
Sole Source	A supplier that is the only source for the supply of parts, components, or services. No alternative U.S. or non-U.S. based suppliers exist other than the current supplier.
Strategic National Stockpile (SNS)	The U.S. national repository of critical medical supplies used to protect the American public in case of a public health emergency, managed by the Assistant Secretary for Preparedness and Response within the Department of Health and Human Services.
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.
Supply Chain Disruption	Any event causing a disruption or delay in production, sales, or distribution of products.
Surge Capacity	Ability to rapidly mobilize and expand beyond normal service levels to meet an increased demand in the event of large-scale disasters or public health emergencies.
United States	The "United States" or "U.S." includes the 50 states, the District of Columbia, Puerto Rico, Guam, America Samoa, the U.S. Virgin Islands, and the Northern Mariana Islands.
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Pre	vious Page					Next Page				
			1. Location Informa	ition						
	Provide your location's primary point of co	ontact (POC) for this su	rvey. This individual will be responsible for en	suring the completion a	nd certification of this location's survey.					
A.	Name		Title	Phone Number	Email Address	State				
	Provide the information.									
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В.										
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	Provide the information. Organization Name Location Name Location Street Address Location State Location State Location State Location State Location Country CAGE(s), comma delineated (if applicable) Ultimate Parent Organization Name Ultimate Parent Organization Country Is your ultimate parent organization a public or private entity? In two or three sentences, describe the activities that take place at this location.									
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Acquisition Merger Divestiture

Previous Page								Next Page				
		2. Organization Information										
A. Using the drop-down menu, identify the top five vaccines manufactured and/or distributed by your organization that generate the greatest sales revenue, in decending order, other than influenza. If your organization does not manufacture vaccines, please proceed to sub-section B of this tab.												
	4.											
	5.											
List all entiti	List all entities in descending order, including individuals and governments, which currently hold 5% or more of your organization's voting rights.											
	Entity or Individe	ual Name	Stake %	Street	Address	City	State	Country				
В.												
P												
In the box to	the right record the tota	I number of mergers, acquisit	tions and divestiture	e that your organization has	heen party to in the past fix	o voare Include both I	I S and non II S act	tivities				
		ect "Other, write in." If so, writ			s been party to in the past in	ve years. Include both c	7.0. and non-0.0. act	uviles.				
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	-			-		T		Year Transaction				
C.	rganization Name	Full Addres	ess .	Country	Type of Activity	Prima	ıry <u>Objective</u>	Completed				
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D. Provide the (CMOs). Th Numb	t venture activities compliant Venture Name total number of your organen, list the locations in the organization of U.S. Locations Location Name	reted in the past five years that Full Address Full Addre	locations currently in ue. NOTE: Non-hea Number	rovolved in the distribution adquarter locations may proof non-U.S. Locations Global Locations Primary Influenza Va	Partner Name Partner Name Partner Name nd/or production of influenza ceed to the next section. ations ccine-Related Function Assemi Distribu Manufa Packag Resear	vaccine-related product City City bly ution and/or Procuracturing Jing ch and Development	ts, including contract Country ement	Zip Code Access to gover Access to intelled Bankruptcy/rest Broaden custon Develop new ca Overcome geop R&D access/coo Reduce Costs				
D. Provide the (CMOs). Th Numb	t venture activities compliant Venture Name total number of your organen, list the locations in the organization of U.S. Locations Location Name	reted in the past five years that Full Address Full Addre	locations currently in ue. NOTE: Non-hea Number	rovolved in the distribution adquarter locations may proof non-U.S. Locations Global Locations Primary Influenza Va	Partner Name Partner Name Partner Name nd/or production of influenza ceed to the next section. ations ccine-Related Function Assemi Distribu Manufa Packag Resear Testing	vaccine-related produc City bly attion and/or Procuracturing	ts, including contract Country ement	Zip Code Access to gover Access to intelle Bankruptcy/rest Broaden custon Develop new ca Overcome geop R&D access/coo				

Sole Global Source Existing Non-U.S. Competitors only Currently Manufacture Existing U.S. Competitors only Currently Distribute Existing U.S. and Non-U.S. Competitors Both revious Page Next Page 3. Product Capabilities Indicate if your location currently manufactures or distributes products within the influenza vaccine-related product categories listed below by selecting the appropriate dropocom menu choice for any applicable For each product category that your location manufactures or distributes, indicate a product range description, top export country, availability of alternative providers, and whether your facility conducts research and development. nition of *Distributor* Top Export Country Availability of Alternative Research ar **Analytical Testing** Capability Product(s) Range Description (if applicable) Providers Developmen Assays - Cell Viability Assays - Contamination Detection Assays - Potency Assays - Stability Reagents Other Analytical Testing Products Availability of Alternative **Primary Export Country** Research and **Ancillary Equipment and Supplies** Product(s) Range Description Capability (if applicable) Providers Development Containers Flasks Jet Injectors Needles Pipettes Sterile Clothing (Booties, Gloves, Jump Suits) Syringes Other Ancillary Equipment and Supplies Availability of Alternative Primary Export Country Research and **Cell Culture** Capability Product(s) Range Description (if applicable) Providers Developmen Bioreactor - Single-Use Bioreactor - Non-Single-Use Cell Banking Growth Media and Additives - Amino Acids Growth Media and Additives - Calcium Chloride Growth Media and Additives - DNA Growth Media and Additives - Cell Proteins Growth Media and Additives - Hydrocortisone Growth Media and Additives - Egg, Egg Proteins (Albumin, Ovalbumin) Other Cell Culture Products Availability of Alternative Primary Export Country Research and Capability Product(s) Range Description Consumables (if applicable) Development Aseptic Sampling Systems Bioreactor Bags Buffer/Storage Bags Chromatography Resins Chromatography Columns (pre-packed) Filters - Depth Filters Filters - Nominal Filters Filters - Sterile Filters Filters - Ultrafiltration Filters Filters - Vent Filters Flow Paths Manifold Assembly Systems Mixing Bags Sterile Connectors Tubing Other Consumables Primary Export Country Availability of Alternative Research and Capability Fill/Finish Product(s) Range Description (if applicable) Providers Developmen Filling Assemblies Stoppers (including rubber) Vial Adapters Vial Caps Other Fill/Finish Products Availability of Alternative **Primary Export Country** Research and Influenza Vaccines Capability Product(s) Range Description (if applicable) Providers Development IIV3 - Standard dose - Egg based with MF59 (aIIV3) IIV4 - High dose - Egg-based (HD-IIV4) IV4 - Standard dose - Cell-culture based (ccIIV4) IIV4 - Standard dose - Egg-based IV4 - Standard dose - Egg-based with MF59 (allV4) AIV4 - Egg-based RIV4 - Recombinant HA Primary Export Country Availability of Alternative Research and **Raw Materials** Capability Product(s) Range Description (if applicable) Providers Development Antibiotics - Gentamicin Sulfate Antibiotics - Kanamycin Antibiotics - Neomycin, Neomycin Sulfate Antibiotics - Polymyxin B a-tocopherol Buffer Components Buffer Solution, Pre-made Gases (Nitrogen, Oxygen, Liquid Oxygen) Inactivating Agents - Beta-propiolactone Inactivating Agents - Formaldehyde Preservatives - Ethylenediaminetetraacetic acid (EDTA)

Preservatives - Thimerosal

Stabilizers - Sucrose

Other Raw Materials

Surfactants - SPAN 85

Surfactants - Polysorbate 20
Surfactants - Polysorbate 80
Surfactants - Sodium Deoxycholate
Surfactants - Sorbitan Trioleate
Surfactants - Other

Salts Squalene Stabilizers - Gelatin

Protein Purifier - Sodium Taurodeoxycholate

Surfactants - Cetrimonium Bromide (CTAB)

Stabilizers - Monosodium Glutamate

Surfactants - Nonylphenol Ethoxylate
Surfactants - Octoxynol-10 (Triton X-100)

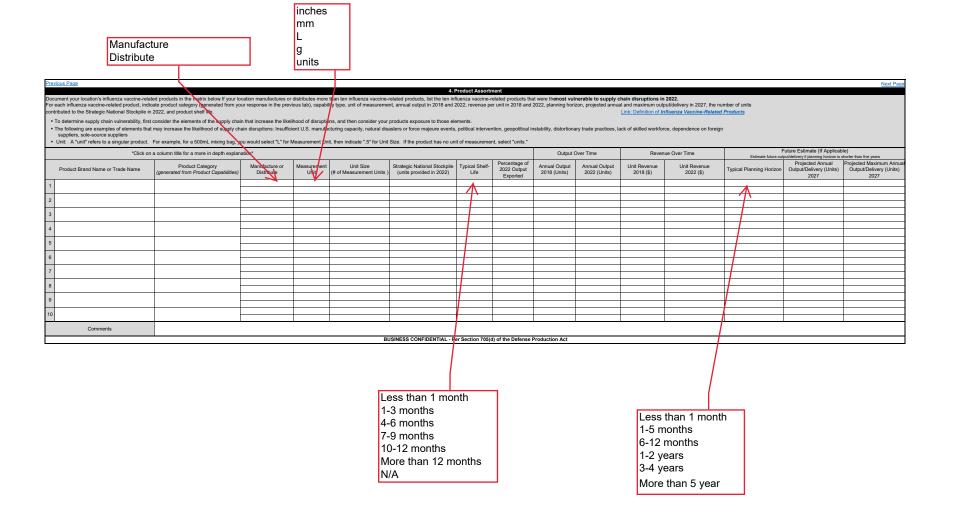
Water for Injection (WFI) Quality Water

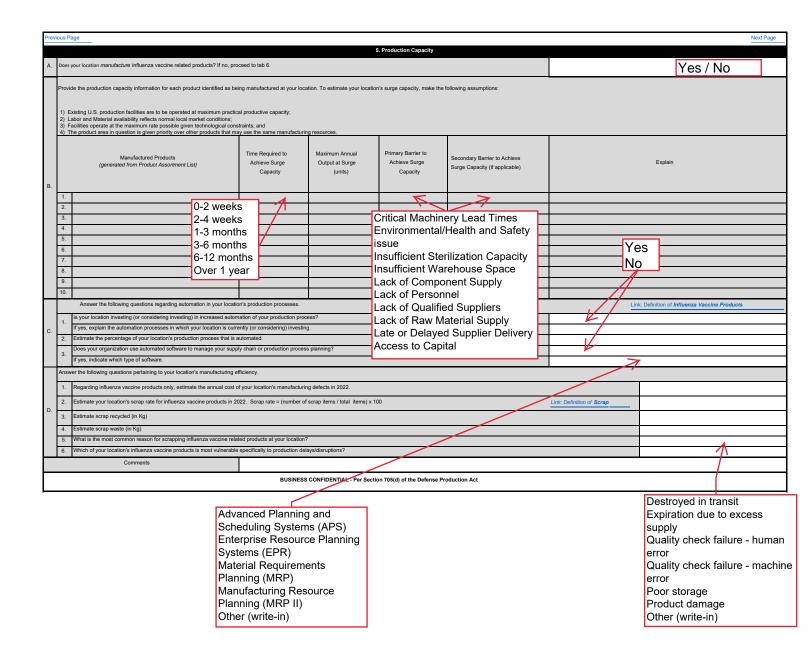
Comments:

Yes No

11

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



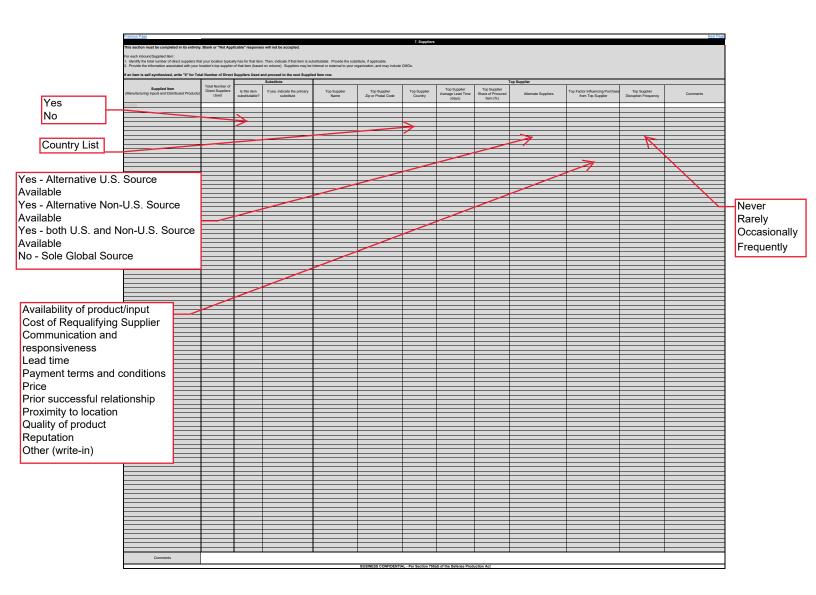


Previous Page

6: Manufacturing Inputs

For each manufactured product, please provide that product's ten inputs that were most vulnerable to supply chain disruptions in 2022. List the inputs in descending order, starting with the most vulnerable. For each input, please provide the following: input type, input name, reason for vulnerability, and change in sourcing difficulty since 2018. For the Sourcing Difficulty Δ prompt, indicate whether each input has become more or less difficult to source since 2018. Please include IUPAC names and CAS Registry numbers, when applicable.

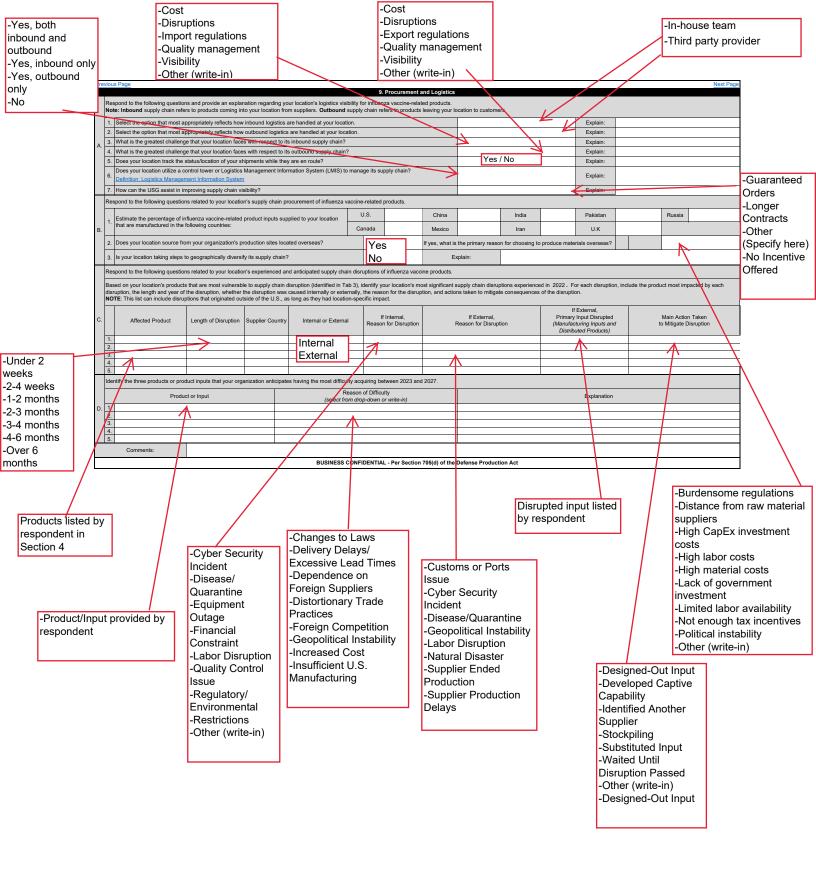
NC	OT fill in grayed out cells (non-manufactur	red products). These should be left blank.				Input Type Dropdrown	
						Antibiotics - Gentamicin Sulfate	
	Definition: International Union of Pure a					Antibiotics - Kanamycin	
90	Definition: Chemical Abstracts Service ((CAS) Number				Antibiotics - Neomycin, Neomycin Sulfate	
						Antibiotics - Polymyxin B	
	Products	Brand Name Product 1	Brand Name Product 2			Aseptic Sampling Systems	
It	to-generated from Product Assortment)					Assays - Cell Viability Assays - Contamination Detection	
						Assays - Potency	
	Input 1 Type					Assays - Stability	L
	Input 1 Name					a-tocopherol	
	Reason for Vulnerability					Bioreactor - Non-Single-Use	Г
	Sourcing Difficulty Δ since 2018		Reason for Vulnerability Dropdo	<u>own</u>	\vdash	Bioreactor - Single-Use	F
_			Changes to Laws			Bioreactor Bags	⊢
_	IUPAC Name		Delivery Delays/Excessive Lead Times			Buffer Components	⊢
	CAS Registry Number		Dependence on Foreign Suppliers Distortionary Trade Practices			Buffer Solution, Pre-made	L
	Input 2 Type		Foreign Competition			Buffer/Storage Bags	L
	Input 2 Name		Geopolitical Instability			Cell Banking Chemical - Compound	
	Reason for Vulnerability		Increased Cost			Chemical - Single Element	
	Sourcing Difficulty Δ since 2018		Insufficient U.S. Manufacturing			Chromatography Resins	
			Lack of Skilled Workforce			Chromatograpy Columns (pre-packed)	\vdash
	IUPAC Name		Limited or Sole Source			Containers	
	CAS Registry Number		Loss of Critical Suppliers			Filling Assemblies	L
	Input 3 Type		Natural Disasters or Force Majeure Ev	ents/		Filters - Depth Filters	Γ
	Input 3 Name		Other (write-in)			Filters - Nominal Filters	
į	Reason for Vulnerability		1			Filters - Sterile Filters	-
	· · · · · · · · · · · · · · · · · · ·	_		1		Filters - Ultrafiltration Filters	⊢
	Sourcing Difficulty Δ since 2018					Filters - Vent Filters	\perp
	IUPAC Name		0 1 000 11 01	Щ,		Flasks Flow Paths	L
١	CAS Registry Number		Sourcing Difficulty Change Dropdown	<u>1</u>		Gases (Nitrogen, Oxygen, Liquid Oxygen)	Γ
	Input 4 Type		Easier to Source			Growth Media and Additives - Amino Acids	
	Input 4 Name		No Change in Sourcing Difficulty Moderately More Difficult to Source			Growth Media and Additives - Calcium Chloride	
			Substantially More Difficult to Source		$\overline{}$	Growth Media and Additives - Cell Proteins	\vdash
	Reason for Vulnerability		Substantially Wore Diricult to Source			Growth Media and Additives - DNA	┡
	Sourcing Difficulty Δ since 2018					Growth Media and Additives - Egg, Egg Proteins (Albumin, Ovalbumin)	
	IUPAC Name					Growth Media and Additives - Hydrocortisone	
	CAS Registry Number					IIV3 - Standard dose - Egg based with MF59 (aIIV3)	
	Input 5 Type					IIV4 - High dose - Egg-based (HD-IIV4)	г
_	Input 5 Name					IIV4 - Standard dose - Cell-culture based (ccIIV4)	⊢
_	· · · · · · · · · · · · · · · · · · ·					IIV4 - Standard dose - Egg-based	⊢
	Reason for Vulnerability					IIV4 - Standard dose - Egg-based with MF59 (alIV4)	┡
	Sourcing Difficulty Δ since 2018					Inactivating Agents - Beta-propiolactone Inactivating Agents - Formaldehyde	L
	IUPAC Name					Labels	-
	CAS Registry Number					LAIV4 - Egg-based	Г
T	Input 6 Type	4				Manifold Assembly Systems and Tubing Sets	
	Input 6 Name					Mixing Bags	
_						Pipettes	\vdash
	Reason for Vulnerability					Preservatives - Ethylenediaminetetraacetic acid (EDTA)	\vdash
	Sourcing Difficulty Δ since 2018					Preservatives - Thimerosal	L
	IUPAC Name					Protein Purifier - Sodium Taurodeoxycholate	
	CAS Registry Number					Reagents	
	Input 7 Type					RIV4 - Recombinant HA	Г
	Input 7 Name					Salts	Г
	Reason for Vulnerability					Seals	Г
	Sourcing Difficulty Δ since 2018					Squalene Stabilizars Golatin	
	IUPAC Name					Stabilizers - Gelatin Stabilizers - Monosodium Glutamate	-
	CAS Registry Number					Stabilizers - Monosodium Giutamate Stabilizers - Sucrose	\vdash
	Input 8 Type					Sterile Clothing (Booties, Gloves, Jump Suits)	-
	Input 8 Name					Sterile Connectors	\vdash
						Stoppers (including rubber)	\vdash
	Reason for Vulnerability					Surfactants - Cetrimonium Bromide (CTAB)	
	Sourcing Difficulty Δ since 2018					Surfactants - Nonylphenol Ethoxylate	
	IUPAC Name					Surfactants - Octoxynol-10 (Triton X-100)	
	CAS Registry Number					Surfactants - Other	
	Input 9 Type					Surfactants - Polysorbate 20	L
	Input 9 Name					Surfactants - Polysorbate 80	L
ĺ	Reason for Vulnerability					Surfactants - Sodium Deoxycholate	Г
	Sourcing Difficulty Δ since 2018					Surfactants - Sorbitan Trioleate Surfactants - SPAN 85	Г
_	IUPAC Name					Syringes	F
1	CAS Registry Number					Tubing	\vdash
	Input 10 Type					Vial Adapters	
	Input 10 Name					Vial Caps	
	Reason for Vulnerability					Vials	
	•					Water for Injection (WFI) Quality Water	\vdash
	Sourcing Difficulty Δ since 2018					Wave Bioreactor Bags	
-	IUPAC Name					Other Analytical Testing Products	L
	CAS Registry Number					Other Ancillary Equipment and Supplies	L
		1				Other Cell Culture Products	
	Comments:					Other Consumables	
	Comments:		IESS CONFIDENTIAL - Per Section 705(c			Other Fill/Finish Products	



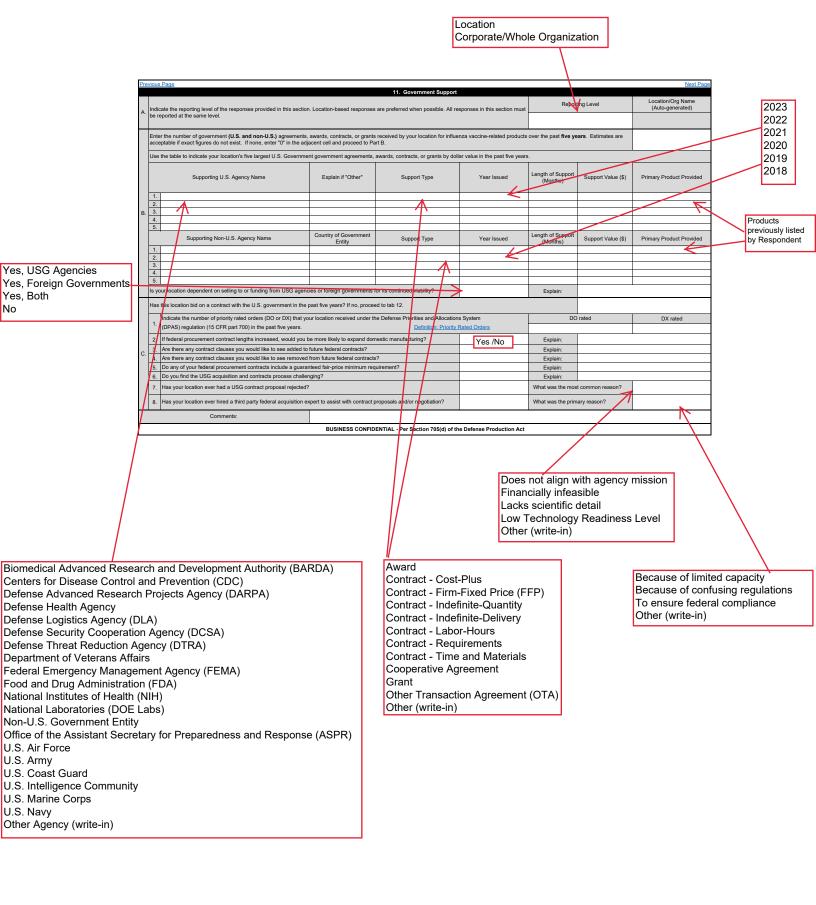
-Less than 1 month -1-5 months -6-12 months -1-2 years -3-4 years -More than 5 vear -< 5 years -5-7 years -7-10 years ->10 year

	-More man 3	veai						
Previous Page								
			8. Capital Equipment					
Identify the ten types of capital equipment that	are most critical to your location's influ	enza vaccine manufact	uring process. Vist the equipment in decer	iding order, startin	g with the most v	ulnerable to supply chain disrupt	ions in 2023-2027.	
For each equipment type, provide the manufact	turer, country of origin, typical lead tim	e to acquire, acquisition	n cost per unit, average useful life, number	of operable units,	and the average	remaining useful life of operable	units.	
Note 1: To determine supply chain vulnerabi								
Note 2: The following are examples of eleme		supply chain disruption	s: Insufficient U.S. manufacturing capacity	natural disasters	or force majeure	events, political intervention, god	political instability, distortiona	ary trade practices, lack of
skilled workforce, dependence on foreign supp	liers, sole-source suppliers.							
Equipment Type	Primary Product Associated	Equipment Manufacturer	Country of Origin	Typical Lead Time to Acquire	Acquisition Cost per Unit	Average Useful Life (years)	Number of Operable Units	Average Remaining Useful Life of Operable Units
1				-				
2	See							
3								
4	Product list							
5	from			_				
7				-				
8	Section 3			-				
9				1				
16				-				
Comments								
		BUSINESS	CONFIDENTIAL - Per Section 705(d) of	the Defense Pro	duction Act			
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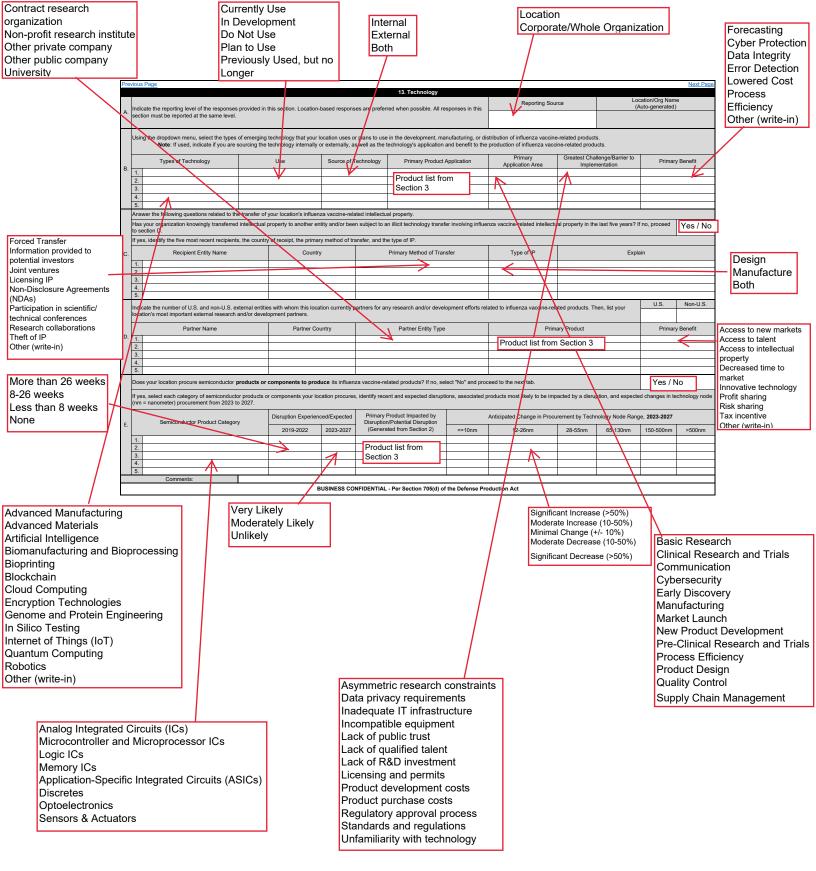
-Airflow Hoods
-Airlock Systems
-Biological Safety Cabinets
-Cell Separators
-Centrifuges
-Chromatography Frits
-Chromatography Pump
-Chromatography Detector



revious Page					10. Custom						Next Page	
his section must be completed in its entirety, blank or "Not Appl	olicable" responses will not be acce	pted.			TO. Custom	uis						
For each product, identify the total number of direct custom		that product.										
 Answer each question related to your location's Top Custor Indicate whether your location exports each product for any 	y customer and provide the primary	y challenge your location faces with exporting th	hat product. If other, write in commen	box.								
Your Location's Products	1. Total Customers				2. Top Customer	Percentage of Annual				3. Export Controls		
(generated from Product Assortment responses)	Total Number of Direct Customers Product is Sent to	Top Customer Name	Most Important Customer Criteria	Top Customer ZIP or Postal Code	Top Customer Prod	duct Sales Attributable to Customer	Top Customer Use (if known)	Top Customer Product Description (if known)	Did your location expo this product in 2022?	ort Primary Challenge Posed by Export Con (If Subject to Export Controls	introl Regime ECCN (If Applicable)	
							See Product		Yes			
							list from		No			
							Section 3					
							-					
												-
										A		
										1		
			\perp									4
			11									
Comments:												
				BUSINESS CO	ONFIDENTIAL - Per Section 70	5(d) of the Defense Pro	duction Act]
					_							
		Delivery Consid										
		Financial Consid	derations							15 1 11471		
		Number of Prod	lucts/Service	s supporte	ed						hout Action (RWA	
		Relationship Co		• • •							er than third party	
		Technical Speci						Controls on	commer	cial use items. i.	e. "specially design	ned" items
			IIICallOHS							ense exceptions	, ,	,
		Other (write-in)										
							Excessive e					
							Frequent ch	anges to	requirements			
								License reje	ected dur	ing inter-agency	review	
								Obsolete re				
										an item is contro	olled	
										an item is contin	olica	
								Other (write	-111)			



Prev	revious Page														
Α.	Indicate the reporting level of the responses provided in this section. Location-based responses are preferred when possible. All responses in this section must be reported at the same level. 3. Has your location exported any influenza vaccine-related products in the previous 5 years? If no, proceed to the next tab.								Reporting Level Location					Location/Org Name (Auto-generated)	
											Corporate/Whole Organi	ization	Vac / Na		
В.	Has y	our location exported any influen	nza vaco	cine-related	products in the p	revious 5 years? If	no, proceed to the next tab).					Yes / No		
	Identify the influenza vaccine-related products that your location/organization exported in the past five years and the U.S. exported Top Three Product Category Exported by Revenue in the Past Five Years (if applicable) Product Category Exported 1 2 2 Products generated Section 4								ITAR EAR Unknown Both	pplicable.		Yes, EAR Yes, ITAR Yes, Both No	₹		
C.		Export Regime (Use Dropo	down M	lenu)											
	Are yo	our location's/organization's prod	ducts sul	bject to Inte	rnational Traffic ir	n Arms Regulations	s (ITAR) or Export Administ	tration Regulations (EAR)? If r	no, proceed to P	art E.			A		
		Link: ITAR-Regulated I	<u>Produc</u>	<u>ts</u>					Link: EAR-Reg	ulated Products					
	Identi	ify the influenza vaccine-related p	products	most cha	lenged by expor	t controls in in the	e past five years, including t	the primary challenge posed b	y the export cor	ntrol regime and the	e relevant Export Control	Classification Number (ECCN), if app	olicable. on of <i>Influenza Vaccine-Rel</i>	ated Products	
		Product Category Subject to Export Control	Ex	port Regim	e	Primary Chal	Primary Challenge Posed by Export Control Regime			Primary Mitigation Action				ECCN (ex: 9Y610)	
_	1.	Products listed by respondent in Section 4		ITAR EAR			1			1					
D.	2.			Unknown Both											
	3.														
	4.						/							_	
	5.						,								
	Answ	er the below questions regarding	g your lo	cation's/org	anization's expor	activities over the	e past five years and the n	next five years.							
	1.	Has your location/organization ha	nad any	deemed ex	oorts in the past f	ve years?		Yes / No			If yes, how many?	?			
E.	2.	Indicate the country with the great	eatest n	umber of d	eemed exports (including/those wit	th no license required) asso	ociated with your location/orga	nziation betwee	n 2018-2022 .					
		Estimate the 2022 annual cost to	o abide	by applicab	e export control r	egimes as a perce	entage of revenue.				Cos	st Estimate (\$)/Revenue (\$)			
	4.	Estimate the 2027 annual cost to	o abide	by applicab	e export control r	egimes as a perce	entage of revenue.								
Comments:															
							BUSINESS CONFI	DENTIAL - Per Section 705(d) of the Defen	se Production Act					
Application delays and Returned Without Action (RWA) Burden of identifying end-users rather than third party intermediates Controls on commercial use items, i.e. "specially designed" items Difficult to obtain license exceptions Excessive embargo restrictions Frequent changes to requirements License rejected during inter-agency review Obsolete regulations Uncertainty whether an item is controlled Other (write-in) Altered influenza vaccine product research and development expenditures Conducted periodical audits of exports to ensure compliance with U.S. sanctions or export controls Included contract obligation with intermediary or third-party sellers to ensure compliance with U.S. export controls Uncertainty under the composition of influenza vaccine product projects Avoided the export of influenza vaccine products or services that are subject to EAR and/or ITAR-related conditions Outsourced influenza vaccine product production/R&D operations Other, Write In								ated controls	1A607 - Medical countermeasures equip 1C350 - Chemicals that may be used as 1C351 - Human and animal pathogens and 1C353 - Genetic elements and genetical 1C354 - Plant pathogens 1C395 - Mixtures and medical, analytical 1C991 - Vaccines, immunotoxins, medical 1E351 - Microbiological disposal techno 2B352 - Equipment capable of use in har Other (write-in)	s precursors for toxic chemical a and "toxins" Ily-modified organism Il, diagnostic, and food testing k al products, diagnostic and food	gents				



Ability to deliver go Ability to receive n Health/safety and Property/facilities/ Production capabil	ecess readir equip ities	ary s ness	upplies/inputs of workforce it		Immediate Under 2 weeks 2 to 4 weeks 5 to 10 weeks 11 to 20 weeks 20 weeks Not Possible		Locatio Corpor	on ate/whole Organ	ization		Lack of Pollutior Solid wa Technic	organiz n taxes aste dis al capa ater dis ser fee	sposal fees abilities scharge fees es		
	Pre	evious	s Page			14. Health & Safety Pract	ices				,	. ,	<u> </u>		
	Α.	pos	sible. All lesponses ir	n this section must be repo	ted at the same leve	ation-based responses are pref		Reporting L	evel		n/Org Name generated)		BSL-1 BSL-2		
		Indi	cate your location's e	mergency response capab						BSL-3					
		1.	How often is your loc	cation's business continuity	plan updated? If yo	ur location does not have a plan	, select "No Plan".					1 /	BSL-4		
		2.	Does your business	continuity plan include info	rming customers of	ary resulting disruptions/delays?	?					1 /			
	В.		· · · · · ·	large-scale emergency, what is the estimated average response time for your location to recover the following work inputs to normal levels?								\dashv /	/		
			1	Work Input		verage Response Time		ork Input Disrupted	Explain:			1/			
		3.	a.	'		\\ \'\'		ut list from	Explain:			/			
			b.				Section		Explain:		/	1 .	/ 		
			C.				Cootion	<u> </u>	Explain:				Electrical Safety Cor		
		Ans	wer the following que	estions about your location'	s health and safety p	oolicies.					/		Emergency Planning Fire Protection	}	
						Labels:					General Environmen	nt Controls			
Yes					Training		Yes	_ _/_		General Machine Re					
No		1.	Select each method	your location employs to e	xecute its hazards o	ommunication program.		Material Data Shee		No	 	/ /	Hazardous Materials		
Will Apply in Future Do Not Intend to Apply								Other:	els (IVISDS).	(Specify Here)	_ /		Hazardous Materials		
Do Not intend to Apply			Doos this location in	aluda at lagat ana labarata	zy in which highering	Laganta ara handlad?		Other.		Yes / No	1 / / /		Medical Services/Fir		
	C.	. 2.	, , , , , , , , , , , , , , , , , , ,									7	Personal Protective Equipmer		
lu ana a a a		+					#: (OO!!A)	Link: Biosa	LINK:		/ //		Record keeping Training		
Increase Decrease		3.				nal Safety and Health Administr	ation (OSHA) regu	lations.	OSHA		/ /		_		
Stay Neutral						ppliance with OSHA regulations.				V			Other (specify here)		
		4.		se and/or store hazardous					LINK:	Yes No	Сарр	ed allo	wance systems (cap-	-and-trade)	
						ommunity Right-to-Know Act re			FPCRA	Not			duction credits (ERC)		
		5.	Does this location ge	enerate hazardous waste?	Yes / No	If yes, does this location ha	ve a hazardous wa	ste storage location p	permit?	Applicable		gy use			
		Ans	wer the following que	estions regarding your locat	ion's energy and en	vironmental policies.							t grant programs t loan programs		
		1.	Is your location ISO	50001 certified?						> /	Impro	oved sta	andards or policies		
		2.	Does your location e five years?	expect its energy consumpt	on to increase, decr	ease, or stay neutral over the ne	ext >	Explain:				itment t subsidie	tax credits es		
		3.	Does your location c	consider environmental imp	act assessments wh	en choosing suppliers?	Yes / No	Explain:		Λ	Other	r (speci	ify here)		
	D.		What are the top two	o challenges that your locat	Primary Challenge Secondary Challen					Directly					
		5.	Which government in	ncentive, if any, would mos	t influence your loca	tion to prioritize environmental p	policies?					<u> </u>	Indirectly		
			Does the adoption of	f environmentally-focused	policies impact your	location's ability to continue to p	roduce influenza v	accine-related produc	ts?		-	1	No Impact	23	
		6.	Explain:												
			Comments:												
					SUSINESS CONFID	ENTIAL - Per Section 705(d) o	f the Defense Pro	duction Act				1			
												_			

Location
Corporate/Whole Organization

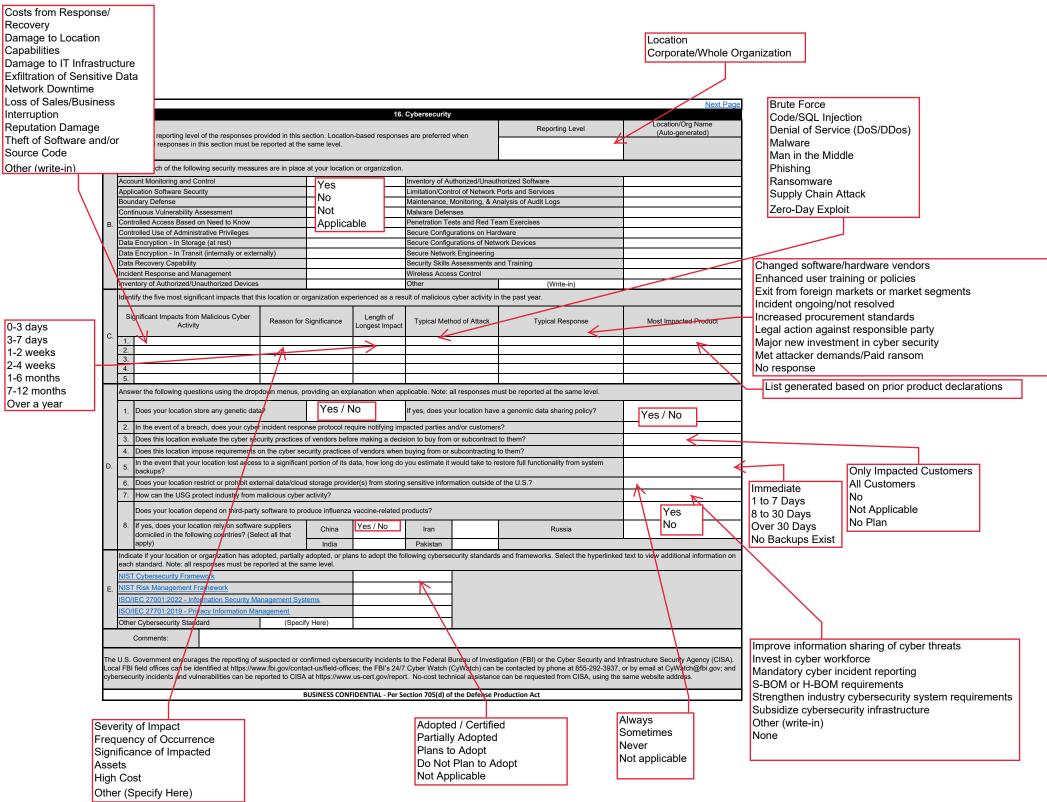
Pre	revious Page						Next Pag
A.	Indicate the reporting level of the responses provided in this section be reported at the same level.	on. Location-based respon	15. Employmen		uses in this section must	Reporting Level	Location/Org Name (Auto-generated)
	Record the total number of full-time equivalent (FTE) employees e	employed at this location f	or each year since 20	19, including employee	es and contractors who	,	
	FTE Employees	2019	2020	2021	2022	2023 (Estimate)	Average Annual Turnover Rate
	1. U.S. Citizen					, ,	
В.	2. Non-U.S. Citizen						
	2.1 China (select primary visa type)						
	2.2 India (select primary visa type)						
	2.3 Iran (select primary visa type)						
	2.4 Pakistan (select primary visa type)						
	2.5 Russia (select primary visa type)						
	In descending order, identify your location's five most critical occulocation's current number of FTE employees and contractors in 20 method of recruitment.						
	Occupation Current Num of FTEs	ber Current Number of Vacancies	Top Hiring Challenge	Top Retainment Challenge	Degree of Difficulty in Hiring	Explain	
C.	1.		lack	Λ	A		
	2.			/,			
	3.				Minor Moderate		
				/	Great		
	4.			/	Extreme		
	5.		/		No Difficulty		
Co	Comments:	•	\ /	•			
		USINESS CONFIDENTIA	J - Per Section 705(1) of the Defense Pro	duction Act		

H1-B F-1

L-1A L-1B O-1A

Other (write-in)

Attracting workers to location
Employee turnover
Finding experienced workers
Finding qualified workers
Significant portion of workforce retiring
Unions/Collective bargaining
Workers unable/not allowed to access location
Other (write-in)



Location Corporate/Whole Organization

Previous Page				Next Page
	17. Financials			
Indicate the reporting level and reporting schedule and then rec	ord the financial line iter	ns in parts B through D	for 2019-2022.	
Reporting Level:			,	V
A. Location/Organization Name (Auto-generated):				,
Reporting Schedule:				Z
	Income Statement			
	2019	2020	2021	2022
Net Sales (and other revenue)				
Influenza Vaccine-Related Product Sales Percentage				
B. Cost of Sales / Cost of Goods Sold				
Total Operating Income				
Earnings Before Interest and Taxes (EBIT)				
Net Income				
	Balance Sheet			
	2019	2020	2021	2022
Cash and Cash Equivalents				
Inventories				
C. Current Assets				
Total Assets				
Current Liabilities				
Total Liabilities				
Total Owner's Equity				
	Other			
D.	2019	2020	2021	2022
Research & Development (R&D) Expenditure				
Capital Expenditures				
E. On a scale of 1 to 10, estimate your organization's overall finance being highly profitable for the foreseeable future).	cial health (1 being imm	inent failure and 10		
Comment:				
BUSINESS CONFIDENTIAL -	Per Section 705(d) of t	he Defense Productio	n Act	

Calendar Year Fiscal Year

2022 Net Sales
None

Location	
Corporate/Whole Organization	

Pre	Previous Page Next Page												
					18	. Challenges							
A.	Indicate the reporting level of the responses provided in t responses in this section must be reported at the same le		ocation-bas	ed response		Location/Org Name (Auto-generated)							
	responses in this section must be reported at the same is												
		ntify the issues that have impacted your location/organization from 2018 to 2022, and the issues that you anticipate will impact your location/organization between 2023 and 2027. Next, rank your location's/organization's top issues for both time frames (1 being the most important issue; 2 being the next most important issue, etc.).											
	Explain the affirmative issues where examples and narrative will aid the U.S. Government's understanding of your concerns and provide any suggestions for ways the U.S. Government (USG) can help mitigate these issues.												
	Troto, orpinitations and suggestion solutions are notpin s	2018 to 2022 2023 to 2027											
	Type of Issue	-Yes/No-	Rank	-Yes/No-	Rank	Ex	planation of Issue	Suggested USG Solution/Mitigation					
	Aging equipment, facilities, or infrastructure												
	Aging workforce												
	Competition - domestic												
	Competition - foreign												
	Counterfeit parts												
	Cybersecurity												
	Environmental regulations/remediation												
	Export controls - EAR/ITAR												
	Financing/credit availability												
	Government acquisition process												
	Government purchasing volatility												
	Government regulatory burden												
	Healthcare costs												
В.	Industrial espionage - domestic												
٠.	Industrial espionage - foreign												
	Input availability (e.g., materials)												
	Input quality												
	Intellectual property/patent infringement												
	Labor availability/costs												
	Lack of infrastructure												
	Lack of public R&D partnerships (e.g., universities)												
		_											
	Natural disasters (including disease/quarantine)	_											
	Obsolescence Pension costs												
	Proximity to customers Proximity to cuspliors												
	Proximity to suppliers	_		-									
	Qualifications/certifications												
	R&D costs												
	Reduction in USG demand	_		-									
	Taxes Trade disputes	_											
	Trade disputes												
	Worker/skills retention Other (specify here)												
	(-p))												
	(opeony nore)												
	Indicate whether your location/organization has been impexplanation.	acted by the	war in Ukra	ine that bega	an in Februr	ary 2022. Next, indicate	the degree of impact, the influenza vac	ccine-related product most affected, and provide a brief					
C.		-Yes/No- Degre		of Impact	Primary	Product Impacted	E	Explanation of Issue					
	Has the war in Ukraine impacted your location/ organization's ability to produce or distribute influenza vaccine-related products?		1	\	Product Section	s listed in 4							
	Comments												
_			BUSINESS	CONFIDEN	TIAL - Per S	Section 705(d) of the D	Defense Production Act						
		1 - Seve				,,							

- 2 Significant Impact 3 Moderate Impact 4 Slight Impact

- 5 Little to No Impact

Previous Page	
	19. Certification
	oplied in response to this questionnaire is complete and correct to the best of his/her knowledge. It is representation to any department or agency of the United States Government as to any matter
Once this survey is complete, first save it to your computer	ter, and then submit the document via the Census Bureau portal linked here:
REPLACE WITH LINK	
Location Name	
Organization Name	
Organization's Internet Address	
Name of Authorizing Official	
Title of Authorizing Official	
E-mail Address of Authorizing Official	
Phone Number and Extension of Authorizing Official	
Date Certified	
In the box, provide any additional comments or any other	r information you wish to include regarding this survey assessment.
How many hours did it take to complete this survey?	
BUSINESS CONFID	ENTIAL - Per Section 705(d) of the Defense Production Act