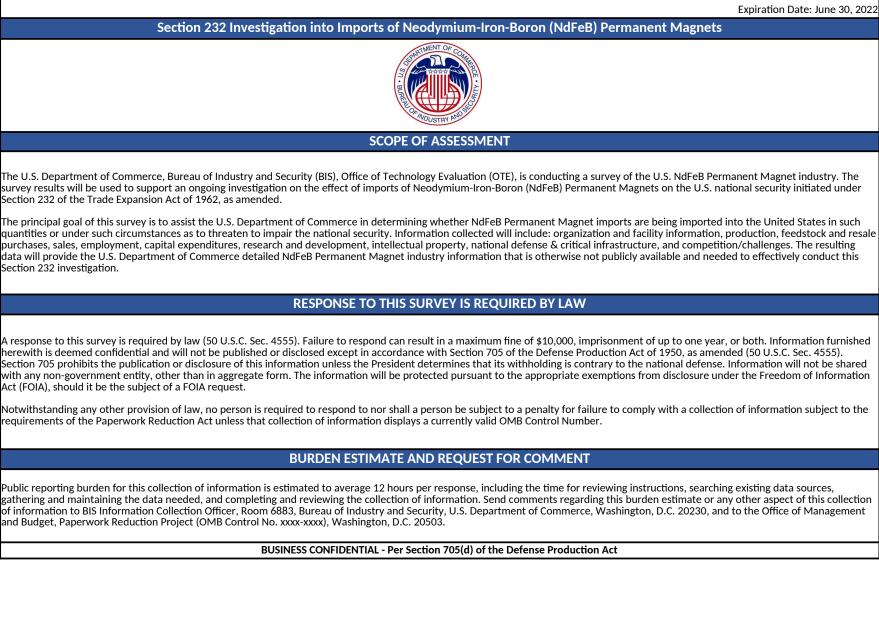
Next Page

OMB Control Number: XXXX-XXXX



Previo	us Page Next Page
	Table of Contents
I	Cover Page
II	Table of Contents
III	General Instructions
IV	Definitions
1	Organization Information
2a	Production Facilities
2b	Distribution Facilities
3a	U.S. Production
3b	Non-U.S. Production
4a	Sourcing/Feedstock Purchases
4b	NdFeB Permanent Magnet Purchases
5	<u>Sales</u>
6	Employment
7	<u>Capital Expenditures</u>
8	Research & Development/Intellectual Property
9	National Defense/Critical Infrastructure
10	Competition/Challenges
11	<u>Certification</u>
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Previ	ous Page Next Page
	General Instructions
A.	Your organization is required to complete this survey of the U.S. vanadium industry, which can be downloaded from the BIS website: XXX 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. <b>DO NOT SUBMIT</b> the PDF version of the survey as your response to BIS. Should this occur, your organization will be required to resubmit the survey in the requested Excel format.
В.	Respond to every question. Surveys that are not fully completed will be returned for completion. Use the comment boxes to provide any information to supplement responses provided in the survey form. Make sure to record a complete answer in the space provided, even if the space does not appear to expand to fit all of the information. <b>DO NOT CUT AND PASTE RESPONSES WITHIN THIS SURVEY OR PASTE IN RESPONSES FROM OUTSIDE THE SURVEY</b> . Survey inputs should be completed by typing in responses or by using a drop-down menu. The use of cut and paste can corrupt the survey template. If your survey response is corrupted as a result of cut and paste response, your survey will be rejected and your organization must immediately resubmit the survey.
С.	Do not disclose any USG classified information in this survey form.
D.	Upon completion of the survey, final review, and certification, <b>transmit the survey document via e-mail to</b> : NdFeB232@bis.doc.gov
	Questions related to the survey should be directed to BIS survey support staff at <u>NdFeB232@bis.doc.gov</u>
E.	E-mail is the preferred method of contact. You may speak with a member of the BIS survey support staff by calling (202) 482-0194.
F.	For questions related to the overall scope of this Section 232 Investigation, contact <u>NdFeB232@bis.doc.gov</u> or: Jason D. Bolton Program Manager, Industrial Studies BIS/Export Administration/Office of Technology Evaluation 1401 Constitution Avenue, NW, Room 1093 Washington, DC 20230 <b>DO NOT</b> submit completed surveys to Mr. Bolton's postal or personal e-mail address. All surveys must be submitted electronically to: <u>NdFeB232@bis.doc.gov</u>
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Previous Page	Definitions Next Page
Term	Definition An executive officer of the organization or business unit or another individual who has the authority to execute
Authorizing Official	this survey on behalf of the organization. A magnet comprised of NdFeB powder bound by a matrix of polymer produced via compression, injection or
Bonded NdFeB Magnet	calendaring.
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.
Critical Infrastructure	Sectors whose assets, systems, and networks, whether physical or virtual, are considered so vital to the United States that their incapacitation or destruction would have a debilitating effect on security, national economic security, national public health and safety, or any combination thereof.
Customer	Any organization (external or internal entity) for which your organization manufactures/processes any product comprised of NdFeB permanent magnets or related products for.
Defense-related Sales/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.
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.
Distributor	An independent selling agent who has a contract to sell the products of a manufacturer.
Dysprosium Oxide (Dy2O3)	The commonly produced form of dysprosium oxide
Exports	Shipments to destinations outside the United States.
Facility	A building or the minimum complex of buildings or parts of buildings that conducts NdFeB permanent magnet o related products production, 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.
Full Time Equivalent (FTE) Employees	Employees who work for 40 hours in a normal work week. Convert part-time employees into "full time equivalents" by taking their work hours as a fraction of 40 hours.
Global Headquarters	A location that serves as the organization's hub of worldwide operations with all global branches or divisions reporting to it.
Harmonized Tariff Schedule (HTS)	A 10-digit numbering system that classifies a good based on its name, use, and/or the material used in its construction. The number provides Customs and Border Protection (CBP) with a standardized method of trackin all merchandise imported into the United States and sets out the tariff rates and statistical categories.
Imports (Value)	Values reported should be landed, duty-paid values at the U.S. port of entry, including ocean freight and linsurance costs, brokerage charges, and import duties (i.e., all charges except inland freight in the United States).
NdFeB Alloy	The NdFeB precursor materials from which sintered NdFeB magnets are produced.
NdFeB Magnet	The final sintered or bonded magnet form (often coated to protect from corrosion), ready for use in a particular end.
NdFeB Powder	The NdFeB precursor material form which bonded magnets are manufactured.
NdPr Oxide (aka Didymium Oxide)	Combined form of neodymium (75%) and praseodymium (25%) oxide commonly used by NdFeB manufacturers instead of neodymium and/or praseodymium oxide.
Neodymium Oxide (Nd2O3)	The commonly produced form of neodymium oxide.
Non-U.S. Facility	A facility that is physically located outside of the United States.
Organization	A company, firm, laboratory, or other entity that owns or controls one or more U.S. establishment or facility capable of designing, manufacturing, or distributing NdFeB permanent magnets or related products.
Praseodymium Oxide (Pr6O11)	The commonly produced form of praseodymium oxide.
Production	The process of transforming inputs (raw materials, semi-finished goods, subassemblies, ideas, information, knowledge) into goods or services.
Rare Earth Elements (REE)	The lanthanide series of chemical elements, plus yttrium.
Research & Development	Basic and applied research in the engineering sciences, as well as design and development of prototype product and processes. Efforts that an organization conducts towards innovating, introducing and/or improving product and processes.
Sales	All reported and unreported sales of NdFeB permanent magnets or related products, including sales to end- users, producers, financial entities, intermediaries, traders, distributors, et al.
Single Source	An organization that is designated as the only accepted source for the supply of parts, components, materials, c services, even though other source with equivalent technical know-how and production capability may exist.
Sintered NdFeB Magnet	A fully dense magnet produced via the sintering process (i.e., pulverizing ingots in a magnetic field then hot treating in a sintering furnace).
Sole Source	An organization 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.
Supplier	A 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.
Terbium Oxide (Tb4O7)	The commonly produced form of terbium oxide.
Total Rare Earth Oxides (TREO)	The collective of all rare earth oxides combined.
United States	The "United States" or "U.S." includes the 50 states, Puerto Rico, the District of Columbia, Guam, the Trust Territories, and the U.S. Virgin Islands.
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Pre	vious Page									Next Page
					nization Info					
	Provide the following information for your	r organization. P	lease select "Other" for "State/Prov	ince" if located	outside of the	e U.S.				
	Organization Name									
	Street Address									
	City									
А.	State/Province									
A.	ZIP Code									
	Country of Global Headquarters									
	U.S. Point of Contact Name									
	U.S. Point of Contact Email									
	U.S. Point of Contact Phone									
	Is this organization owned, in whole or in List entities with at least 5% ownership. <b>Ir</b>	part, by any Nor Include only dire	n-U.S. entity? Indicate Yes/No, then ct relationships.	identify the en	tities below, i	f applicable				
	Entity Name	Global	Headquarters Street Address	Global Heado	quarters City	Global Stat	Headquarters e/Province	Global Headquarters Country		Ownership %
В.										
	Please provide your organization's CAGE, I	DUNS, and or NA	AICS code(s). Blank entries will be co	nsidered as "No	ot Applicable"					
	Commercial and		Data Universal Numbering Sys	tem (DUNS)					L	
	Government Entity (CAGE)		Code(s)	iciii (Doivo)				NAICS (6-digit) Code(s)		
С.	Code(s)		.,						_	
	Find CAGE codes at:		Find DUNS numbers					Find NAICS codes at:		
	https://cage.dla.mil/		https://www.dnb.com/duns-numb	er/lookup.html				https://www.census.gov/naics/		
	Identify the steps in the NdFeB Permanent	t Magnet supply	chain that your organization curren	tly participates	in. Please do	not include	standby/idle, clos	ed, or future facilities in this section.		
			Activity					Number of U.S. Facilities	Nun	nber of Non-U.S. Facilities
	Mining of Rare Earth (RE) Minerals									
	Processing and Separation of Rare Earth (F	RE) Carbonates a	and Oxides							
	NdFeB Alloy Production									
	Sintering of NdFeB Permanent Magnets									
D.	Bonding of NdFeB Permanent Magnets									
	Importer/Reseller/Distributor of NdFeB Pe									
	Milling, Cutting, and Coating of NdFeB Per									
	Integration of NdFeB Permanent Magnets									
	Recycling/Reclamation of Rare Earth Elem									
	Recycling/Reclamation of NdFeB Permane	nt Magnets fron	n Waste							
	End User of NdFeB Permanent Magnets									
	Other		(Spe	cify Here)						
	Comments:									
			BUSINESS CONF	IDENTIAL - Per	Section 705(d	l) of the De	fense Production	Act		

us Page	_						2a. Production F	acilities					_	
r all of your organiza sy impact that facili	tion's production facilities y over the next five years.		t related operations inclu one operation, list each o	iding facilities that are on standby/idle and closed. If yo speration at the facility and the given operation's capaci					vide the LOCATION (U.S. and Non-U.S facilities. Once completed, please pr		at each facility using the dro	p down menus, and specify any changes		
		Location			Facility Operation					Facility Capacity			01	tlook
Facility Nam	e City	State/Province (Select "Other" if outsid the U.S.)	le Country	Operation Type	Facility Operating Status	Average Annual O (Cost of Goods Sold + O (\$ Thousand	perating Cost perating Expenses) is USD)	Unit of Measurement	Total Facility Capacity (Specified Unit)	Average Capacity Utilization Rate (Last Full Year of Operation)	Time to Reach 100% Capacity Utilization (in days)	Cost to Reach 100% Capacity Utilization (\$ Thousands USD)	Do you anticipate any significant changes in this particular operation the next five years?	If yes or unknown, provide a b explanation.
1				Mining of RE Minerals	Operating			Kg					Yes	
2				Separation and Processing of RE Carbonates and Oxides	Standby/Idle			Metric Ton (MT)					No	
3				NdFeB Alloy Production	Closed			Lbs					Unknown	
4 5				Sintered NdFeB Magnet Production				Short Ton (TN)						
				Bonded NdFeB Magnet Production Recycling/Reclamation of Rare Earth Elements (REE)				Units						
				from Waste										
				Recycling/Reclamation of NdFeB Permanent Magnets from Waste										
			+	Magnets iron waste										
8														
2			-											
-		mments:	-											
tion does not plan	o operate and or fund new to operate or fund new pri	IdFeB Permanent Magnet or r duction facilities between 202	elated product production 2-2026, indicate "No" and	n facilities in 2022-2026, please answer the following: V I proceed to the next section. Note, only list facilities th	What is the operation type for the facilit hat will produce NdFeB Permanent Ma	ty, the initial expected capacity, the final gnets or related products. Do not list ar	expected capacity, the expected v distribution or resale facilities.	start date, the primary challeng Once completed, please proces	e to start (if applicable), the estimates ed to the next section.	d total cost to reach full production, and	the previously allocated fu	nds to reach full production. If your		
tion does not plan														
Facility Nam		IdFeB Permanent Magnet or r fuction facilities between 2022 Location State/Province (Select "Other" if outsid the U.S.)		n facilities in 2022-2026, please answer the following: up proceed to the next section. Note, only list facilities th Operation Type	What is the operation type for the facilit hat will produce NdFeB Permanent Ma Facility Operation Unit of Measurement		expected capacity, the expected ny distribution or resale facilities. Full Expected Facility Capacity (Specified Unit)	start date, the primary challeng Once completed, please proces Expected Start Date	e to start (if applicable), the estimated ad to the next section. Start F: Primary Challenge to Start (If applicable)		the previously allocated fu Previously Allocated Funds to Reach Full Production (\$ Thousands USD)	nds to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type	Facility Operation	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable)	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of RE Minerals Securation and Processing of RE Carbonates and	Facility Operation Unit of Measurement Kg	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) NdFeB Price	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of RE Minerals Separation and Processing of RE Carbonates and Oxides	Facility Operation Unit of Measurement Kg Metric Ton (MT)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) NdFeB Price Loss of Market Share to Imports	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of RE Minerals Separation and Processing of RE Carbonates and Oxides NdFeB Alloy Production	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of RE Minerals Separation and Processing of RE Carbonates and Oxides	Facility Operation Unit of Measurement Kg Metric Ton (MT)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Imports	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of RE Miorals Separation and Proceedings of RE Carbonates and Oxford Alloy Production Statest arXie Magnet Production	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (if applicable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Declining Demand	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Esplain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of RI Mitords Separation and Processing of RI Schowlers and Oxfor. NRTHE Alloy Production National Vision Res Jung Andreadows Reserving Visional Alloy Production Bended NRTHE Nagget Production	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Ndfreß Price Loss of Market Share to Iomestic Competition Declining Demand High Openating Costs	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	ink to reach full production. If your	Esplain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	In the format hell production. If your	Esplain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	ink to reach full production. If your	Esplain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	In and the production. If your	Esplain	
Facility Nan		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	in to reach full production. If your	Esplain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nets to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	In the nearbhill production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nek to reach full production. If your	Esplain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nis to reach full production. If your	Explain	
Facility Nam		Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds		Esplain	
Facility Nam	City	Location State/Province (Select "Other" if outsid		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds	nds to reach full production. If your	Explain	
Facility Nam	City	Location State/Provine State/Provine State/Provine State/Provine Intel LS		Operation Type Mining of Et Minerals Separation and Proceeding of Et Carbonates and Netles Alloy Production Stateord Naffe Hager Production Bender direkt Hager Production Recycling Reclamation of Sac Et al. Element (Hz) Recycling Reclamation of National Section (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	Initial Expected Facility Capacity	Full Expected Facility Capacity		Start F: Primary Challenge to Start (If applicable) Notifiell Price Loss of Masket Share to Imports Competing Demand High Operating Goots COVID-19/Pandemic	ectors Estimated Total Cost to Reach Full Production	Previously Allocated Funds		Explain	

r all or iy imp	f your organization's d pact that facility over t	istribution facilities with he next five years. If a g	NdFeB Permanent Magnet ven facility has more than o	related operations inclu ne operation, list each op	iding facilities that are on standby/idle and closed. If yo peration at the facility and the given operation's capaci	our organization does not currently op ity on separate lines. Note, only list fa	erate any NdFeB Permanent Magnet relat illities that distribute NdFeB Permanent	2b. Distribution F ted distribution facilities, indicate Magnets or related products. Do		ovide the LOCATION (U.S. and Non-U.S. s. Once completed, please proceed to	5.) of the facility, indicate all operation Part B.	s at each facility using the dr	op down menus, and specify any changes		b
_			Location			Facility Operation					Facility Capacity				tlook
	Facility Name	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Facility Operating Status	Average Annual O (Cost of Goods Sold + O (\$ Thousand	perating Expenses)	Unit of Measurement	Average Annual Facility Throughput Capacity (Specified Unit)	Average Throughput Capacity Utilization Rate (Last Full Year of Operation)	Time to Reach 100% Throughput Capacity Utilization (in days)	Cost to Reach 100% Throughput Capacity Utilization (\$ Thousands USD)		itoox If yes or unknown, provide a b explanation.
1					Importer/Reseller/Distributor of NdFeB Permanent Magnets	Operating			Кg					Yes	
F					Milling, Cutting, and Coating of NdFeB Permanent Magnets	Standby/Idle			Metric Ton (MT)					No	
					Integration of NdFeB Permanent Magnets into Assemblies/Systems	Closed			Lbs					Unknown	
					End User of NdFeB Permanent Magnets Other				Short Ton (TN) Units						
E															
F															
F															
F															
F															
rgan I the	nization plans to opera roughput capacity. If y	Comn te and or fund new NdF our organization does n	28 Permanent Magnet or re at plan to operate or fund n	lated product distribution ew distribution facilities b	n facilities in 2022-2026, please answer the following: v between 2022-2026, indicate "No" and proceed to the r			tity, the final expected throughput greets or related products. Do not	t capacity, the expected start d List any production facilities. (			reach full throughput capaci	iy, and the previously allocated funds to		
irgan il thr	nization plans to opera roughput capacity. If y Facility Name		B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside	lated product distribution we distribution facilities b Country	facilities in 2022-2026, please answer the following: between 2022-2026, indicate "No" and proceed to the reaction 2022-2026, indicate "No" and proceed to the reaction Type	What is the operation type for the fact next section. Note, only list facilities Facility Operation Unit of Measurement		ity, the final expected throughput greats or related products. Do not Full Expected Facility Throughput capacity (Specified Unit)	t capacity, the expected start d list any production facilities. ( Expected Start Date	ate, the primary challenge to start (if a nec completed, please proceed to the Start Fa Primary Challenge to Start (if applicable)	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	
irgan il the		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province		Operation Type	Facility Operation	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (If applicable)	actors	Previously Allocated Funds	y, and the previously allocated funds to	Explain	
rgan I the		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Distributor of NBFeB Permanent Magnets Milline, Cuttor, and Costint of MidfeB Permanent	Facility Operation	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (If applicable) NdFeB Price	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Esplain	
gan I the		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restlier/Distributor of NGFeB Permanent Magnets Milling, Cuting, and Cucing of MGFeB Permanent Magnets Interaction of MGFeB Inter	Facility Operation	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (If applicable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Reseller/Distributor of NdFeB Permanent Milling, Cutting, and Coating of NdFeB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	v, and the previously allocated funds to	Esplain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (if applicable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Imports Competition	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	v, and the previously allocated funds to	Esplain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand High Operating Costs CC/DU-DiPandemic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand High Operating Costs CC/DU-DiPandemic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand High Operating Costs CC/DU-DiPandemic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand High Operating Costs CC/DU-DiPandemic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	v, and the previously allocated funds to	Explain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand High Operating Costs CC/DU-DiPandemic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re t plan to operate or fund n Location State/Province (Select "Other" if outside		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand High Operating Costs CC/DU-DiPandemic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	
		te and or fund new NdF our organization does n	B Permanent Magnet or re plain to operate or hand n Location (select Yolker Housing) (select Yolker Housing)		Operation Type Importer/Restler/Chithuto of NaFeB Permanent Milling, Cathing, and Cashing Alfred Permanent Integration of Head Permanent Agenet Into Assemblic/Systems Ind User of MedB Permanent Magnets	Facility Operation Unit of Measurement Kg Metric Ton (MT) Lbs Short Ton (TN)	n Initial Expected Facility Throughout	Full Expected Facility Throughput Capacity (Specified		Start Fa Primary Challenge to Start (Happikable) NdFeB Price Loss of Market Share to Imports Loss of Market Share to Domestic Competition Decining Demand High Operating Costs CC/DU-DiPandemic	ectors Estimated Total Cost to Reach Full	Previously Allocated Funds to Reach Full Throughput Canacity	y, and the previously allocated funds to	Explain	

	inus Dana												Next D	
<form>          Notational state and any any any any any any any any any any</form>	ious Page	ermanent Magnet	s or related product	s between 20	3a. U.9	. Productio 2022-2026	expected) in the United S	tates. If your organization only d	stributed the	following prod	lucts. indicate	"No" and pro	Next P:	
	section.													
colscolsc	nets or related products in the United States? If "No", please pro	ceed to the next s	ection.					products.	includes chine	produce nulle	o remainent	magnees and	A related	
NoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteNoteN	Select "No" if category is not relevant to your operations Unit of Measurement			(Specify H			L, Million .							
Number 1Number	-						Economic V Average Cost per Unit to	iability (2021 Only)						
Image: state in the s		2017	2018	2019	2020	2021	Produce (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026	
	Total Rare Earth Oxides (TREO) Total Production (U.S. Facilities)													
	(% of Rare Earth Ele	ments (REE) conta	ined in TREO)	I	1	r			(% c	of Rare Earth El	ements (REE)	contained in T	REO)	
a a b b b b b b b b b b b b b b b b b 	2 Neodymium													
Description with the problem with the pr	4 Terbium 5 Other Rare Earth Element (REE) (Specify Here)													
UPACHECUP UPACHECUPURU VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIEW	6 Other Rare Earth Element (REE) (Specify Here) Total:	0%	0%	0%	0%	0%			0%	0%	0%	0%	0%	
Image: Set of the set	Comments:		Beck	cline/Reclam	ation of Bare	Farth Flem	ents (RFF) from Waste Ma	aterial						
<th c<="" td=""><td>Select "No" if category is not relevant to your operations Unit of Measurement</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td>Select "No" if category is not relevant to your operations Unit of Measurement</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Select "No" if category is not relevant to your operations Unit of Measurement					-							
Number of the stateNumber of the	-			rom Waste M	aterial		Average Cost per Unit to							
<th c<="" td=""><td></td><td>2017</td><td>2018</td><td>2019</td><td>2020</td><td>2021</td><td>(\$ USD)</td><td>Remain Profitable</td><td>2022</td><td>2023</td><td>2024</td><td>2025</td><td>2026</td></th>	<td></td> <td>2017</td> <td>2018</td> <td>2019</td> <td>2020</td> <td>2021</td> <td>(\$ USD)</td> <td>Remain Profitable</td> <td>2022</td> <td>2023</td> <td>2024</td> <td>2025</td> <td>2026</td>		2017	2018	2019	2020	2021	(\$ USD)	Remain Profitable	2022	2023	2024	2025	2026
Image Image Image Image Image Image Image Image Image Image Image Image Image 	Primary Waste Material Utilized Total REE Production (U.S. Facilities) (Specify Here)													
	(% of Rare Earth Element	s (REE) contained	in Waste Material)		1	I			(% of Rar	e Earth Eleme	nts (REE) conta	ined in Waste	Material)	
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn <th< td=""><td>2 Neodymium</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	2 Neodymium													
Image: bar and bar an	4 Terbium 5 Other Rare Earth Element (REE) (Specify Here)													
	6 Other Rare Earth Element (REE) (Specify Here)	0%	0%	0%	0%	0%			0%	0%	0%	0%	0%	
Barbon         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thc< td=""><td>Comments:</td><td></td><td></td><td>Senarati</td><td>on and Proces</td><td>sing of RF (</td><td>arbonates and Oxider</td><td></td><td></td><td></td><td>_</td><td></td><td>_</td></thc<></thcontrol<></thcontrol<>	Comments:			Senarati	on and Proces	sing of RF (	arbonates and Oxider				_		_	
Image: strained in the	Select "No" if category is not relevant to your operations Unit of Measurement			(Specify H										
ImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImaImaImaImaImaImaImaImaImaImaImaImaImaImaImaImaIma				oduction	1			1						
Image         Image <t< td=""><td></td><td>2017</td><td>2018</td><td>2019</td><td>2020</td><td>2021</td><td>Produce (\$ USD)</td><td>Remain Profitable</td><td>2022</td><td>2023</td><td>2024</td><td>2025</td><td>2026</td></t<>		2017	2018	2019	2020	2021	Produce (\$ USD)	Remain Profitable	2022	2023	2024	2025	2026	
D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <thd< th="">         D         <thd< th=""> <thd< th=""></thd<></thd<></thd<>	1 Nd Oxide												$\vdash$	
B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B <td< td=""><td>3 NdPr Oxide</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td></td<>	3 NdPr Oxide					-							<u> </u>	
UNIT Calcer           UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer           UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer           UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer           UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer           UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer         UNIT Calcer <th c<="" td=""><td>5 Other REE Oxides (Specify Here)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td>5 Other REE Oxides (Specify Here)</td> <td></td>	5 Other REE Oxides (Specify Here)												
Late Autor         Late Autor <thlate autor<="" th="">         Late Autor         Late Au</thlate>					NdFeB All	oy/Metal P	roduction							
Image: marked bit part of the	Select "No" if category is not relevant to your operations Unit of Measurement			(Specify H				Shilly (2021 A-1-2			materia 0	tion		
Indicate late late late late late late late l		2017			2020	202*			2022				2026	
I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	Total Broduction (U.S. Excision)	2017	2018	2019	2020	2021	Produce (\$ USD)	Remain Profitable	2022	2023	2024	2025	2026	
I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	1 Nd Metal													
Norm         Norm </td <td>3 NdPr Metal</td> <td></td>	3 NdPr Metal													
<th a="" and="" and<="" constrained="" second="" td=""><td>5 Other REE Metals (Specify Here)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td>5 Other REE Metals (Specify Here)</td> <td></td>	5 Other REE Metals (Specify Here)												
<t< td=""><td></td><td></td><td></td><td>Sinte</td><td>ered NdFeB Pe</td><td>rmanent N</td><td>Aagnet Production</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				Sinte	ered NdFeB Pe	rmanent N	Aagnet Production							
Image: state in the	Select 'No' if category is not relevant to your operations Unit of Measurement		Actual Pr	(Specify H	ere if Other)		Economic V	Sobility (2021 Only)		Erti	mated Produc	tion		
Image: state in the	-	2017			2020	2021			2022				2026	
1     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0 </td <td>Total Production (U.S. Facilities)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(\$ USD)</td> <td>Remain Prohtable</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Total Production (U.S. Facilities)						(\$ USD)	Remain Prohtable						
I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	1 N25-N30													
9     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0 </td <td>4 N41-N45</td> <td></td>	4 N41-N45													
I         Image         Im	6 N51-N55													
Image: Sector of the secto	8 N31M-N35M													
I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	10 N41M-N45M													
14     Name     Image     Image <td< td=""><td>12 N51M-N55M 13 N51M-N55M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	12 N51M-N55M 13 N51M-N55M													
14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14     14   <	14 N31H-N35H													
Image         <	16 N41H-N45H 17 N46H-N50H													
22     MARCH-COM     Image: Constraint of the sector of the sect	19 N25SH-N30SH													
D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D	20 N315H-N355H 21 N365H-N405H													
20     Norm	23 N465H-N505H													
20     Model+Hoode, House, Hous	25 N25UH-N30UH 26 N31UH-N35UH				-									
Decision         Decision         Image	27 N36UH-N40UH													
Normal     Normal </td <td>30 N51UH-N55UH</td> <td></td>	30 N51UH-N55UH													
Note:         <	31 N25EH-N30EH 32 N31EH-N35EH													
No     No     No     Image     Ima     Ima     Ima     Ima	33 N36EH-N40EH 34 N41EH-N45EH 38 N44CEL NEOEL													
B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B	36 N51EH-N55EH												_	
Note         Note <th< td=""><td>38 N31AH-N35AH</td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></th<>	38 N31AH-N35AH			-	-								-	
Line         Line <thline< th="">         Line         Line         <th< td=""><td>40 N41AH-N45AH 41 N46AH-N50AH</td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>-</td></th<></thline<>	40 N41AH-N45AH 41 N46AH-N50AH			<u> </u>						-			-	
Biological Production           Decision Production           Sect Nor Life Days operations         Control Production           Control Production         Control Production           Control Production         Control Production         Control Production           Control Production         Control Production         Control Production           Control Production         Control Production         Control Production           Control Production         Control Production         Control Production           Control Production         Control Production      Control Production           Control Production         Control Production           Control Production           Control Production           Control Production           Control Production           100000         100000	42 N51AH-N55AH													
Back Hotegraph on relevants your operations     December law       Back Hotegraph on relevants     December law     Second Value V					ded bids or		Samat Decimilia		-				_	
	Select "No" if category is not relevant to your operations Unit of Measurement					Inent M								
Inder Poduring (1): Spating- poduring (2): Spating (2): Sp			Actual Pr	oduction	1									
Staff Pedurine (15, poline)         Staff Pedurine (15, poline) <t< td=""><td></td><td>2017</td><td>2018</td><td>2019</td><td>2020</td><td>2021</td><td>Average Cost per Unit to Produce/Recycle (\$ USD)</td><td>Capacity Utilization Needed to Remain Profitable</td><td>2022</td><td>2023</td><td>2024</td><td>2025</td><td>2026</td></t<>		2017	2018	2019	2020	2021	Average Cost per Unit to Produce/Recycle (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026	
1     1x0corr     xx0corr     <														
9     MAC     Image: Marting and marting an	1 1 MGOe 2 2 MGOe													
§ Mode     Node     Image: Sector Se	4 4 MGOe													
8     NAC     MAC     MAC <td>6 6 MGOe</td> <td></td>	6 6 MGOe													
10     10     11     Mode     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     <	8 8 MGOe													
12 J2 Mod -	10 10 MGOe 11 11 MGOe			<u> </u>	<u> </u>								-	
14 βMod → 1 m (2 m m m m m m m m m m m m m m m m m	12 12 MGOe 13 1H MGOe													
17 Jarwan     17 Jarwan     18 J	14 2H MGOe			<u> </u>		-								
18 /#Mode                                                                                                                        <	17 5H MGOe												E	
20     BKMGe → <td>18 6H MGOe 19 7H MGOe</td> <td></td>	18 6H MGOe 19 7H MGOe													
22         Julk Mode         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	20 8H MGOe 21 9H MGOe													
25 Other (Specify Here)	22 10H MGOe 23 11H MGOe													
	24 12H MGOe													
					_				_			_		
Comments:	Comments:													
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act			BUSINES	S CONFIDENT	TIAL - Per Sect	ion 705(d)	of the Defense Production	n Act						

8

revio	us Page					- 1/14/203							Next Pag
dicat	e if your organization produced (or plans to produce) NdFeB f xt section.	Permanent Magnet	s or related product	is between 20	3b. Non-1 17-2021 (and	U.S. Produc 2022-2026	tion expected) outside the Uni	ited States. If your organization of	only distribute	d the following	g products, inc	licate "No" an	
_	ur organization produced, is currently producing, and or plans ts or related products outside the United States? If "No", ples	to produce NdFeE ase proceed to the	Permanent next section.		Do not ir	clude facil	ities that solely distribute,	import, or export. Only include products.	facilities that	produce NdFe	B Permanent	Magnets and o	or related
%	ect "No" if category is not relevant to your operations				Mining of Ra	are Earth (F	E) Minerals						
U	nit of Measurement		Actual Product		ere if Other) D			iability (2021 Only)		Estimate	d Production fi	rom TREO	
L		2017	2018	2019	2020	2021	Average Cost per Unit to Produce (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026
	Total Rare Earth Oxides (TREO) Total Production (Non-U.S. Facilities)												
E	(% of Rare Earth E)	ements (REE) conta	ined in TREO)						(% c	of Rare Earth El	ements (REE)	contained in T	REO)
E	2 Neodymium 3 Praseodymium 4 Terbium												
	5 Other Rare Earth Element (REE) (Specify Here)     6 Other Rare Earth Element (REE) (Specify Here)     Total:	0%	0%	0%	0%	0%			0%	0%	0%	0%	0%
	Comments:	0/6					ents (REE) from Waste Ma	terial.	0/6	0/4	0,8	0/6	0.6
Se U	elect "No" if category is not relevant to your operations nit of Measurement			(Specify H	ere if Other)								
		2017	Actual Production fi 2018	2019	aterial 2020	2021	Average Cost per Unit to	iability (2021 Only) Capacity Utilization Needed to Remain Profitable	2022	Estimated Pro 2023	duction from V	Vaste Materia 2025	2026
┝	Primary Waste Material Utilized						Recycle (\$ USD)	Remail Prontable					
F	Primary Waste Material Utilized Total REE Production (Non-U.S. Facilities) (% of Rare Earth Elemen	ts (REE) contained	in Waste Material)						(% of Rar	e Earth Eleme	nts (REE) conta	ined in Waste	Material)
	1 Dysprosium 2 Neodymium 3 Praseodymium												
E	4 Terbium 5 Other Rare Earth Element (REE) (Specify Here)												
E	6 Other Rare Earth Element (REE) (Specify Here) Total:	0%	0%	0%	0%	0%			0%	0%	0%	0%	0%
0	Comments: elect "No" if category is not relevant to your operations		1	Separatio	on and Proces	sing of RE (	Carbonates and Oxides						
U	nit of Measurement		Actual Pr	(Specify H oduction	ere if Other)	1	Economic V	iability (2021 Only)		Esti	mated Produc	tion	
1		2017	2018	2019	2020	2021	Average Cost per Unit to Produce (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026
	Total Production (Non-U.S. Facilities)  Nd Oxide Dr. Oxide												
	2 Dy Oxide 3 NdPr Oxide 4 Pr Oxide												
F	5 Other REE Oxides (Specify Here) Comments:												
5	elect "No" if category is not relevant to your operations nit of Measurement			(Specify H	NdFeB Alle	oy/Metal P	roduction						
ľ			Actual Pr	oduction			Economic V Average Cost per Unit to Produce	iability (2021 Only) Capacity Utilization Needed to			mated Produc		
. –	Total Production (Non-U.S. Facilities)	2017	2018	2019	2020	2021	Produce (\$ USD)	Remain Profitable	2022	2023	2024	2025	2026
	Notest     Notest     Notest     Notest     Notest     Notest     Notest     Notest     Notest												
	NdPr Metal     Pr Metal     S     Other REE Metals     (Specify Here)												
+	Comments:		•	Sinte	ered NdFeB Pe	ermanent N	Agnet Production		•				
Se U	elect "No" if category is not relevant to your operations nit of Measurement		Actual Pr	(Specify H				iability (2021 Only)		F-44	mated Produc	ti	
		2017	2018	2019	2020	2021	Average Cost per Unit to Produce		2022	2023	2024	2025	2026
F	Total Production (Non-U.S. Facilities) 1 N25-N30						(\$ USD)						
E	2 N31-N35 3 N36-N40												
- E	4 N41-N45 5 N46-N50 6 N51-N55												
- E	7 N25M-N30M 8 N31M-N35M 9 N36M-N40M												
1	0 N41M-N45M 1 N46M-N50M												
13	2 N51M-N55M 3 N25H-N30H 4 N31H-N35H												
1	5 N36H-N40H 6 N41H-N45H												
	7 N46H-N50H 8 N51H-N55H 9 N255H-N305H												
14	0 N315H-N355H 11 N365H-N405H 22 N415H-N455H												
2 2	3 N465H-N505H 4 N515H-N555H												
12	5 N25UH-N30UH 6 N31UH-N35UH 7 N36UH-N40UH												
14114	8 N41UH-N45UH 9 N46UH-N50UH												
0.00	0 N51UH-N55UH 11 N25EH-N30EH 12 N31EH-N35EH												
10 10	13 N36EH-N40EH 14 N41EH-N45EH												
64 64	15 N46EH-N50EH 16 N51EH-N55EH 17 N25AH-N30AH												
10 10	18 N31AH-N35AH 19 N36AH-N40AH 10 N41AH-N45AH												
4 4	1 N46AH-N50AH 12 N51AH-N55AH												
4	3 Other (Specify Here) Comments:												
5	elect "No" if category is not relevant to your operations nit of Measurement				ded NdFeB Pe	rmanent M	lagnet Production						
F			Actual Pr	oduction			Average Cost per Unit to	ability (2021 Only)			mated Produc		
ļ	Total Broduction Atom (14.4 State)	2017	2018	2019	2020	2021	Produce (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026
ł	Total Production (Non-U.S. Facilities) Mega Gauss Oersted (MGOe)												
E	2 2 MGOe 3 3 MGOe 4 4 MGOe												
E	5 5 MGOe 6 6 MGOe												
H	7 7 MGOe 8 8 MGOe 9 9 MGOe												
1	0 10 MGOe 1 11 MGOe												
1	2 12 MGOe 3 1H MGOe 4 2H MGOe			<u> </u>		-				-			<u> </u>
1	5 3H MGOe 6 4H MGOe												
1	7 SH MGOe 8 6H MGOe 9 7H MGOe			<u> </u>		-				-			<u> </u>
121	10 8H MGOe 11 9H MGOe												
14	2 10H MGOe 3 11H MGOe 4 12H MGOe												
2	5 Other (Specify Here) Comments:												
	Comments:												
			BUSINES	S CONFIDENT	TIAL - Per Sect	ion 705(d)	of the Defense Production	n Act					

Previous Page																														Next Pag
												4a. Sourcing/Teo	tock Purchases																	
Did war organization reachase feedator	da which were used to produce	McColl Dermanent Marrie	ts or related modests bet	www.p. 2017-2021 (and 20)	22,2026 expected?? If yes, severe #	e following exertio	ns below for each of une	conscipation's suppliers. If no.	niesse proceed to the re	stantion. If your own	ration has more than																			
Did your organization purchase feedatoo suppliers, rank them by vokanse of purch which do not include value-add activitier	hases over the 2017-2026 period	(greatest to least). For 20	22-2026, limit your respon	enses to signed contracts a	and memorandums of understandin	g (MOUs). Do not is	nclude speculative/desis	d feedstock purchases . Note,	do not include any purch	ases which were inter	ed for resale (i.e. pure	1005																		
	aj.																													
												ration and Processing	of RE Carbonates an	d Oxidea																
											(Pur	ration and Processing asses of Total Rare Ea	h Oxides and Waste	Material)																
Select "No" if category is not relevan Unit of Measurement	nt to your operations																													
Unit of Measurement											2013	2017	(Specify)	(ere if Other) 2018	2019	2019		2020		2021		2022	2023			2024			2026	
							TREO C	entent (% of REE contained in 1 Elements (REE) contained in 1	REO) or Maste Material	Total:	201	2017	2016	2010	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2020	2020
						L	(recenter car	Contained (CEE) Contained In	mane manenak)	Other																				
Supplier Name	Country of Purchase	Single/Sole Source?	10-Digit HTSUS Code (If	Feedstock Type	Specify Waste Material Top Fa	tor Influencing	c 6	6			2																			
	(Location of Feedstock)		Known)		(If Applicable)	urchase		Ť.	5		Yolun	Value	Volume	Value	Volume	Value (\$ Thousands USD)	Volume	Value (§ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands US3
							April 1	10	-te	5	2 Volum	(\$ Thousands U	o) volume	(\$ Thousands USD)	volume	(\$ Thousands USD)	voune	(\$ Thousands USD)	Volume	(\$ Thousands USD)	voune	(\$ Thousands USD)	VOLUTIO	(\$ Thousands USD)	Volume	(\$ Thousands USD)	voune	(\$ Thousands USD)	Volume	(\$ Thousands USE
							ž	Prac		8	8																			
A		Single Source		Total Rare Earth Oxides (TREO)	Firme	I Consideration					_	_	-																	
•		ange assice		(TREO)	FEIRL	Comparization																								
2		Sole Source		Waste Material		al Specification																				1				
3		Neither			Ri	lationship																								
4						Delivery Other																								
6						- Curren		-	-	+ +	_	-	-	-													-			
7																														
3 4 5 6 7 8 9 10					-				-	+			-																	
10	-			1				1	1			-	1	1												1	-			
		Comments:																												
						_						NdFeB Allow/	fetal Production		_				_				_						_	_
Select "No" If category is not relevan Unit of Measurement	nt to your operations																													
une of Measurement					1			1		1	2013	2017	(Specify) 2018	fere # Other) 2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2022	2024	2024	2025	2025	2026	2026
										Total:	201	2017	1010	2010																
Supplier Name	(Location of	f Purchase f Feedstock)	Type of REE O	bride Feedstock	Specify Other REE Ox (If Applicable)	des	Single/Sole Source?	30-Digit H (1f Kr	tSUS Code xown)	Top Factor Influ Purchase	ncing Volum	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value	Volume	Value	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD
										Purchase	- Volum	(\$ Thousands U	o) volume	(\$ Thousands USD)	volume	(\$ Thousands USD)	voune	(\$ Thousands USD)	Volume	(\$ Thousands USD)	voune	(\$ Thousands USD)	VOLUTIO	(\$ Thousands USD)	Volume	(\$ Thousands USD)	voune	(\$ Thousands USD)	Volume	(\$ Thousands USE
1			Ndi	Oxide			Single Source Sole Source			Financial Consid	ation																			
B. 2			Dyd	Oxide r Oxide			Sole Source Neither			Technical Speci	ation	_																		
4			Pro	Oxide			Neither			Relationsh Delivery		-	-													-				
5			Other R	EE Oxides						Other																				
6																														
8										+	_	_														-				
8																														
a. 2 3 4 3 5 6 7 8 9 9 10 10 10 10 10 10 10 10 10 10																														
8 9 10		Comments:																												
	nt to your operations	Comments:											Agnet Production																	
8 9 30 Select "No" If category is not relevan Unit of Measurement	nt to your operations	Comments:																												
										Total:	2013			tere if Other) 2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026
Select "No" If category is not relevan Unit of Measurement			Type of REL N	Aetal Feedntock	Specify Other REE MetablyW	ste Material	Single/Sole Source?	10-bigit HTSUS Code	Percent of Rosycleo			2017	(Specify) 2018	fere if Other) 2018										2023						
		Comments: ( Purchane Freedintock)	Type of REE M	Astal Feedstock	Specify Other RIT Metah/Wa ()f Applicable)	the Material	Single/Sole Source?	10-Digit HTSUS Code (# Known)	Percent of Rocycles Material	Total: Top Factor infly Purchas		2017			2019 Volume	2019 Value (5 Thousands USD)	2020 Volume	2020 Value (5 Thousands USD)	2021 Volume	2021 Value (\$ Thousards USD)	2022 Volume	2022 Value (\$ Thomandi USD)	2023 Volume	2023 Value (\$ Thousands USD)	2024 Volume	2024 Value (\$ Thousands USD)	2025 Volume	2025 Value (\$ Thousands USD)	2026 Volume	2026 Value (\$ Thousards USD
Select "No" If category is not relevan Linit of Measurement Supplier Name					Specify Other RIT Metals/Wa (H Applicable)	te Material		10 Digit HITSUS Code (If Known)	Percent of Rocyclec Material	Top Factor Infl Purchase	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2022 Value (5 Thousands USD)						
Select "No" If category is not relevan Linit of Measurement Supplier Name			Nd 1	Metal	Specify Other RIT Metals/Wa (If Applicable)	ate Material	Single Source Sole Source	10 Digi H15US Code (F Rown)	Percent of Rocyclic Material	Top Factor Influ Purchase Financial Comic Technical Speci	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2023 Value (\$ Thousands USD)						
Select "No" If category is not relevan Linit of Measurement Supplier Name			Nd 1	Metal	Specify Other BEE MetaboWe (If Applicable)	te Material		10 Digit HTSUS Code (7 Known)	Percent of Recycles Material	Top Factor Influ Purchase Financial Comic Technical Speci	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2023 Value (3 Thousands USD)						
Select "No" If category is not relevan Linit of Measurement Supplier Name			Nd 1 Dy 7 NdPr	Metal Metal Metal Metal	Specify Other REE Metabolity (If Applicabili)	ate Material	Single Source Sole Source	10 Digit HTSUS Code [P Room]	Percent of Recycles Material	Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2022 Value (\$ Theoreands USD)						
Select '74a'' If category is not nelwar Unit of Measurement Supplier Name			Nd 1 Dy 1 NdPr Pr 5 Femo	Metal Metal Metal Sboron 1 Steel	Specify Other EET Metals/Wa (IF Applicable)	tte Material	Single Source Sole Source	10 Digit HTSUS Code (F Room)	Percent of Recycle Material	Top Factor Influ Purchase Financial Comic Technical Speci	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2022 Volue (5 Theornands USD)						
Select '74a'' If category is not nelwar Unit of Measurement Supplier Name			Nd 1 Dy 1 NdPr Pr 5 Ferre 1000 000r F8	Metal Metal Metal aboron 1 Steel I Steel II Metals	Specify Other BEE Metaboly (Pf Applicable)	ste Material	Single Source Sole Source	10-Digit HTUS/Cade (Filoson)	Percent of Recycles Material	Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2023 Value (\$ Theonands USD)						
Select "No" If category is not relevan Unit of Measurement Supplier Name			Nd 1 Dy 1 NdPr Pr 5 Femo	Metal Metal Metal aboron 1 Steel I Steel II Metals	Specify Other RET Metals/Wa (If Applicable)	ite Material	Single Source Sole Source	19 Obji 141515 Code (# Known)	Percent of Royclec Material	Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2023 Value (s Thousands USD)						
Select 'No' if category is not relevan Unit of Measurement		f Parchaus Freeditock)	Nd 1 Dy 1 NdPr Pr 5 Ferre 1000 000r F8	Metal Metal Metal aboron 1 Steel I Steel II Metals	Specify Office TEE Matsh/WC (If Applicable)	ite Material	Single Source Sole Source	19 Digi HEUX Code (# Rocent)	Percent of Recycle Material	Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum	2017	(Specify) 2018	fere if Other) 2018										2023 Value (8 Thousands USD)						
Select '74a'' If category is not nelwar Unit of Measurement Supplier Name			Nd 1 Dy 1 NdPr Pr 5 Ferre 1000 000r F8	Metal Metal Metal aboron 1 Steel I Steel II Metals	Specify Oby: EEL Mataly Wa	ste Material	Single Source Sole Source	10 Digh HTLIX Cade (# Roused)	Percent of Respete	Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum	2017 Yakar (\$Thousands U	(Specify) 2018 30 30 30 30 30 30 30 30 30 30 30 30 30	tere IF Other) 2018 Value (\$ Thousands USD)										2023 Volas (\$ Theorements USD)						
Silet Yes' # cdapy in not relevant bit of Manusement Suppler Name C 2 2 4 3 3 3 3 4 5 3 4 5 3 5 4 5 5 5 5 5 5 5	Constry (Location	f Parchaus Freeditock)	Nd 1 Dy 1 NdPr Pr 5 Ferre 1000 000r F8	Metal Metal Metal aboron 1 Steel I Steel II Metals	Specify Citer III Match/W (If Applicable)	ite Material	Single Source Sole Source	30 Ogi HSUS Code (FReen)	Percent of Rocycle Material	Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum	2017 Yakar (\$Thousands U	(Specify) 2018	tere IF Other) 2018 Value (\$ Thousands USD)										2023 Value \$ Theoremeth U20)						
Silet Yes' # cdapy in not relevant bit of Manusement Suppler Name C 2 2 4 3 3 3 3 4 5 3 4 5 3 5 4 5 5 5 5 5 5 5	Contriny Ecosition	f Parchaus Freeditock)	Nd 1 Dy 1 NdPr Pr 5 Ferre 1000 000r F8	Metal Metal Metal aboron 1 Steel I Steel II Metals	Specify Office ZET Match/W	ste Material	Single Source Sole Source	19 Ogin HTSUS Cade (F Kouse)	Percent of Encyclic Molecul	Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum	2017 Value (\$ Thou rands U Baseded NdFeB	(Specify ) 2018 Volume	fore # Other)										2023 Vidas (5 Theorem U20)						
Select "No" If category is not relevan Unit of Measurement Supplier Name	Contriny Ecosition	f Parchaus Freeditock)	Nd 1 Dy 1 NdPr Pr 5 Ferre 1000 000r F8	Metal Metal Metal aboron 1 Steel I Steel II Metals	Specify Other FEE Marked With	ste Material	Single Source Sole Source	19 Digi HTUS cate (P Recen)	Percent of Recycle Material	Top Factor influ Parchas Financial Consi Technical Speci Technical Speci Delivery Other	ncing Volum	2017 Value (\$ Thou rands U Baseded NdFeB	(Specify ) 2018 Wolume	fore # Other)										2022 Valar 5 Thomas (USD)						
Start Yor T sidegary is not observe           Start Yor T sidegary is not observe           Suggler Name           C           3           4           5           5           3           4           5           5           5           5           5           5           6           7           8           3           5           5           6           7           7           8           3           5           5           6           7           7           8           3           5           3           5           6           7           7           8           9           10           10           10           10           10           10           10	Country geosterio	(Parchase Freedstock) Commentic	Net 1 Oy7 Prin Form 1000 Other B Wante	Metal Metal Metal Metal Steven 3 Steven 3 Steven 13 Metah Material			Single Source Sele Source Notiber			Top Factor Influ Parchase Financial Consid Technical Speci Relationsh Delivery	ncing Volum altion	2017 Value (\$ Thou rands U Baseded NdFeB	(Specify ) 2018 Volume	fore # Other)	Volume	(s Thousands USD)		Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thomands USD)		2023 Valae 5 Thousands USO 2023	Volume	Value (\$ Thousands USD)	Volume	Value § Thosands USD	Volume	Value (\$ Thousands USC 2026
Silet Yes' # cdapy in not relevant bit of Manusement Suppler Name C 2 2 4 3 3 3 3 4 5 3 4 5 3 5 4 5 5 5 5 5 5 5	Country geosterio	f Parchaus Freeditock)	Net 1 Oy7 Prin Form 1000 Other B Wante	Metal Metal Metal aboron 1 Steel I Steel II Metals	Sendy Ober 112 Adult Wi (Y Applicable)		Single Source Sole Source	19 Digit HTUS Code (FReent) 19 Digit HTUS Code (FReent)	Percent of Respice Material	Top Factor Infl. Punchas Financial Comit Relationsh Defeny Other Total: Total:	ncing Volum nation ation 2011	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify ) 2018 Volume	fore # Other)	Volume	Value (\$ Theorem (1920) 2019 Value		Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD) 2021 2021	Volume	Value (\$ Thomands USD) 2022 Value		2022 Valar (3 Thomas di USO) 2022 2022	Volume	Value (\$ Thousands USD)	Volume	Value § Thousands USD) 2025 Value	Volume	Value (\$ Thousands USC 2026
Colors Your 9 Catagory on reference           Colors Your 9 Catagory on reference           Supplier Name           Supplier Name           C           2           3           4           Supplier Name           3           4           3           4           3           4           3           4           3           4           3           4           3           4           3           4           5           4           Supplier Name           Supplier Name	Country geosterio	(Parchase Freedstock) Commentic	Ned 1 Dry 1 Pr to Store Coher St Wante	Metal Metal Metal Metal Deoron El Metalh Matorial Matorial			Single Source Sele Source Nether Single/Sole Source?			Top Factor Infl. Top Factor Infl. Trophead	ncing Volum ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation ation	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Thousands USD) 2019	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value \$ Thousands USD) 2021	Volume (	Value (\$ Thousands USD) 2022	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD§	Volume 2026	Value (\$ Thousands USE
Colors Your 9 Catagory on reference           Colors Your 9 Catagory on reference           Supplier Name           Supplier Name           C           2           3           4           Supplier Name           3           4           3           4           3           4           3           4           3           4           3           4           3           4           3           4           5           4           Supplier Name           Supplier Name	Country geosterio	(Parchase Freedstock) Commentic	Ned 1 Oy1 Nepr P h Ferrer Coher 52 Wante	Notal Metal Metal Setal Barel El Metal Material Adatal Freedstack			Single Source Sele Source Nether Single/Sole Source?			Top Factor infl. Punchas Financial Comit Relationsh Delationsh Other Other	ncing Volum ation	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2026	Value (\$ Thousands USC 2026
Chill The T datapase of or Holes           Chill T datapase of the Holes           C and T datapase of the Holes	Country geosterio	(Parchase Freedstock) Commentic	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sele Source Notiber			Top Factor infi Parchas Fibracia Comit Technica Speci Relation Deliney Other Top Factor infi Parchas Fibracia Comit Technica Speci Factoria Speci Relation	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2026	Value (\$ Thousands USC 2026
Chill The T datapase of or Holes           Chill T datapase of the Holes           C and T datapase of the Holes	Country geosterio	(Parchase Freedstock) Commentic	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Matal Matal Sharial Sharial Material Adarial Feedback Adal Feedback			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Runchas Runchas Rothers - Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runchas Runc	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2026	Value (\$ Thousands USC 2026
Chill The T datapase of or Holes           Chill T datapase of the Holes           C and T datapase of the Holes	Country geosterio	(Parchase Freedstock) Commentic	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor infi Parchas Fibracia Comit Technica Speci Relation Deliney Other Top Factor infi Parchas Fibracia Comit Technica Speci Factoria Speci Relation	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2026	Value (\$ Thousands USC 2026
Colors Your 9 Catagory on reference           Colors Your 9 Catagory on reference           Supplier Name           Supplier Name           C           2           3           4           Supplier Name           3           4           3           4           3           4           3           4           3           4           3           4           3           4           3           4           5           4           Supplier Name           Supplier Name	Country geosterio	(Parchase Freedstock) Commentic	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2026	Value (\$ Thousands USC 2026
Chill The T datapase of or Holes           Chill T datapase of the Holes           C and T datapase of the Holes	Country geosterio	(Parchase Freedstock) Commentic	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2026	Value (\$ Thousands USI 2028
Colors Your 9 Catagory on reference           Colors Your 9 Catagory on reference           Supplier Name           Supplier Name           C           2           3           4           Supplier Name           3           4           3           4           3           4           3           4           3           4           3           4           3           4           3           4           5           4           Supplier Name           Supplier Name	Country geosterio	(Parchase Freedstock) Commentic	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2005	Value (\$ Thousands USC 2026
Start Nor T Latagory is not observed           Start Nor T Latagory is not observed           Supplier Name           C           3           4           5           5           6           7           8           8           9           10           11           12           20           20           20           21           22           3           4           5           7           10           11           12           13           14           15           16           17           18           19           19           10           10           10           10           10           10           11           10           11           12           13           14           15           16           17	Country geosterio	Predasy Predasy Connecto Predasy	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2005	Value (\$ Thousands USI 2028
Colors Your 9 Catagory on reference           Colors Your 9 Catagory on reference           Supplier Name           Supplier Name           C           2           3           4           Supplier Name           3           4           3           4           3           4           3           4           3           4           3           4           3           4           3           4           5           4           Supplier Name           Supplier Name	Country geosterio	(Parchase Freedstock) Commentic	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2005	Value (\$ Theoremands US 2028
Colors Your 9 Catagory on reference           Colors Your 9 Catagory on reference           Supplier Name           Supplier Name           C           2           3           4           Supplier Name           3           4           3           4           3           4           3           4           3           4           3           4           3           4           3           4           5           4           Supplier Name           Supplier Name	Country geosterio	Predasy Predasy Connecto Predasy	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2005	Value (\$ Theoremands US 2028
bits         Diff Table 71 strategies 1 to of stress of the stress o	et la par que afra	Predasy Predasy Connecto Predasy	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	Zoli	2017 Vabe (\$ Thousands U Bended MdFeE 2017	(Specify 1) 2018 2018 2018 2018 2018 2018	tere # Other)	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2005	Value (\$ Thousands USC 2026
Colors Your 9 Catagory on reference           Colors Your 9 Catagory on reference           Supplier Name           Supplier Name           C           2           3           4           Supplier Name           3           4           3           4           3           4           3           4           3           4           3           4           3           4           3           4           5           4           Supplier Name           Supplier Name	et la par que afra	Predasy Predasy Connecto Predasy	Nd 1 Or / Form 1000 Other Server Waste Type of REE M Type of REE M NdFatt Form 1000	Matal Matal Patal Second Second Second Second Material Adual Freeditosck I Posodar Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec			Single Source Sole Source Notither Single/Sole Source? Single/Sole Source?			Top Factor offi Bunchas Filterial Cardina Tochrick Special Dationy Other Top Factor offi Top Factor offi Top Factor offi Top Factor offi Pactor office Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor of Pactor of Pactor Pactor	2011 Addition	2017 Vabe (\$ Thousands U Bended MdFeE 2017	Centry 1 2018 Volume Volume Centry Volume Centry Volume Vo	ter # Ofbur) 2018 2018 2018 2018 2018 2019 2018 2019 2018 2018 2018 2018 2018 2018 2018 2018	Volume 2019	Value (\$ Theorem (1920) 2019 Value	Volume 2020	Value (\$ Thousands USD) 2020	Volume 2021	Value (\$ Thousands USD) 2021 2021	Volume (	Value (\$ Thomands USD) 2022 Value	Volume 2023	2023	Volume 2024	Value (\$ Thousands USD) 2024	2025	Value § Thousands USD) 2025 Value	Volume 2005	Value (\$ Thousands USC 2026

1.Pare									4b. Ndfeß Permane	ent Magnet Purchas	63															
r organization purchase Ndfetl Permanent titen has more than twenty-five suppliers, a not include any feedstock parchases in t	nt Magnets or NdFeB Permanent Magnet Blocks , rark them by volume of parchases over the 20 t <b>this section</b> (i.e. parchases which are self consu	between 2017-2021 (and 2022-2026 expected)? If ye 17-2026 period (greatest to keas), For 2022-2026, lie med intended for resale as a different product).	es, answer the following questic mit your responses to signed co	ons below for each of your org ontracts and memorandums o	nization's suppliers, If no understanding (MOUs).	a, please proceed to the next se Do not include speculative/de	nction. If your mired purchases.																			
									Sintered NdFe	B Magnet Productio	26															
ect "No" if category is not relevant to your it of Measurement	at operations								(Specify Her	a i(Other)																
			1	1		Total:	2017	2017	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	20
Supplier Name	Country of Parchase (Location of Product)	Type of Magnet Purchased	Single/Sole Source?	10-Digit HTSUS Code (If Known)	Operation Type	Total: Top Factor Influencing Purchase	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Va (\$ Thous
		N25-N30	Single Source		Distributor of NdFeB	Financial Comideration	-															_				-
		N51-N55	Sole Source		Coating of NdFeB	Technical Specification	-													-	-	-				+
		N25M-N30M	Neither	-	Permanent Magnets	Relationship	-													-	-	-				-
		N51M-N55M			Permanent Marmeta	Delivery																				
		N25H-N30H			Other	Other																				
		N51H-N55H																								
		N255H-N205H																								
		N515H-N555H						+ +																		-
		N25UH-N30UH N51UH-N55UH			-		-	+ +												1		-		+		-
		N25EH-N30EH		-		+	+	1				-						1		1	-	+		1 1		-
		N51EH-N55EH	-	1		1	-	1				-						1		1	-	-		1 1		-
		N25AH-N3DAH																								-
		N51AH-N55AH																								
																										_
2	Comments:																	-								
									Bonded NdFe	8 Magnet Productio	50															
									Bonded NdFe (Specify Her		10															-
ct "No" if category is not relevant to your						Total	2017	2017			an 2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	
1 'No'' if category is not relevant to your of Measurement Supplier Name		Type of Magnet Purchased	Single/Sole Source?	10-Digit HTSUS Code ()f Known)	Operation Type	Total: Top Factor Influencing Purchase	2017 Volume	2017 Value (\$ Thounards USD)	(Specify Her	e if Other)		2019 Value (\$ Thousands USD)	2020 Volume	2020 Value (§ Thousands USD)	2021 Volume	2021 Value (\$ Thousands USD)	2022 Volume	2022 Value (\$ Thousards USD)	2023 Volume	2023 Value (\$ Thousands USD		2024 Value (\$ Thousands USD	2025 Volume	2025 Value (\$ Thousands USD)	2026 Volume	(\$ Tho
f Measurement	ar operations	1 MGDe	Single Source	30-Digk H15US Code (H Known)	Distributor of NdFeB	Top Factor Influencing Purchase Financial Comideration		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(s Th
Measurement	ar operations	1 MGDe 12 MGDe	Single Source Sole Source	30 Digit HTSUS Code (H Known)		Top Factor Influencing Purchase Financial Consideration Technical Specification		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(5 11
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source	30-Digit HESUS Code (Ef Roown)	Distributor of NdFeB Coating of NdFeB Permanent Magnets	Top Factor Influencing Parchase Financial Comideration Technical Specification Relationship		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(5 T
Measurement	ar operations	1 MGDe 12 MGDe	Single Source Sole Source	30 Digk HTSUS Code (If Known)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(5 1
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	20 Digit H15U5 Code (H Known)	Distributor of NdFeB Coating of NdFeB Permanent Magnets	Top Factor Influencing Parchase Financial Comideration Technical Specification Relationship		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(5 T
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	30 Digit HT3U5 Code (If Jooent)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(5 1
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	30 Digit H15US Code (H Scourt)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(51
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	20 Olgi MTSUR Code (i) Known)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		[ST
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	3D Digh HTSUS Code (If Rosery)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		[ST
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	20 Cligit HTSUS Code []I Abound	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(S TI
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	20 Bigh HTUR Code (If Rosent)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(S TI
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	20 Clight HTSUS Code ()I Abound	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(5 T
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	25 Sight HTUS Code (If Rower)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(s Th
f Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	3D Digit HTSUS Code [If Rosen]	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(\$ Th
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	20 Cégé HTSUS Cade (ji Assant)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		
f Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	3D Digit HTUUS Code (If Rosert)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		
Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	30 Digit INSUS Cade (If Recent)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		(ST
f Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	20 Cign of SUIC Code () Abound	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		
d Measurement	ar operations	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	25 Cigit Influence (if Reserve)	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		
t "No" if category is not relevant to your of Measurement	ar openations County of Parchaes Socialises of Penalaci	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	35 Sign without Guide Biotecol of the State Stat	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Vakae	(Specify Her 2018	e if Other) 2018 Value	2019	Value		Value		Value		Vakae		Value		Value		Value		
Segler Nore	ar openations County of Parchaes Socialises of Penalaci	1 MGDe 12 MGDe 1H MGDe	Single Source Sole Source	30 Ngi MSU cula Di Novej	Distributor of NdFeB Coating of NdFeB Permarkent Magnets	Top Factor Influencing Parchase Financial Consideration Technical Specification Relationship Delivery		Valar Valar I Thosandu UtO 	Opecify Her	e if Other) 2018 Value	2019 Volume	Value 3 Theorem USD		Value		Value		Vakae		Value		Value		Value		

11

ious Page													5. Sa	les															Net
Did your organization sell NdFeB Pe If your organization has more than 1 speculative/desired sales. Note, do	ermanent Magnets or relat ten customers, rank them	ed products between 205 by volume of sales over th	17-2021 (and 2022-2026 er	spected)? If yes, answer the atest to least 1. For 2022-20	e following ques 26. Emit your re	tions below for	each of your organization's cu	istomers. If no, j	lease proceed to ding (MOUs), D	the next section.			p	FAR5 225.7018.10	U.S.C. 2533c. 'The Jo	ohn S. McCain Natio	anal Defense Author	zation Act - NDAA	2019': https://www.	federalregister.gov	/documents/2019/8	04/30/2019-08485	i/defense-federal-ac	auisition regulation-	supplement-restrict	tion-on-the-acquisi	tion of certain magne	b	
oeculative/desired sales. Note, do	o not include intra-compar	ny transfers or list any ma	sterial that was internally	consumed (i.e. Only includ	le sales to other	entities outside	r of your organization).																						
elect "No" if category is not relevan nit of Measurement	int to your operations											10		th Oxides (TREO)															
nit of Measurement	1								otal:	2017	2017	(Specify H 2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026
					TREO	Content (% of R	EE contained in TREO)		Rher						1	I									I				
Customer Name	Country of Sale	End Use (If Known)	10-Digit HTSUS Code (If Known)	Top Factor Influencing Sale	Ę	5	Ę "	(in the second s	(in the second sec																				
					spr ask	odymi	erbiur erbiur	N HA	eity H	Volume	Value (\$ Thou sands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands
					8	2		8	ŝ																				
1		Sintered NdfeB Permanent Magnets		Financial Consideration																									
2		Bonded NdFeB Permanent Magnets		Technical Specification																									
3		Offshore wind turbines		Relationship																									
4		Electric vehicles Consumer electronics		Delivery Other																									
6		Industrial motors																											
3 4 5 6 7 8 9 9		Non-drivetrain motors in wehicles Unknown																											
9		Charlowin																											
10	Comments	6	1																										
dent "No" if nateenry is not relevan	ed to your operations										1		RE Carbonat	tes and Osides															
elect "No" if category is not relevan nit of Measurement	, va opa anni									2017	2017	(Specify H 2018	tre if Other) 2018		2019		1		1										
				Knerily Other BEE Oxides	First	lbe	10.0mit HTM IS Code		otal:	2017	2017	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026
Customer Name	Countr	y of Sale	Type of REE Oxide	Specify Other REE Oxides (If Applicable)	End (If Kn	own)	10-Digit HTSUS Code (If Known)	Top Factor	nfluencing Sale	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands
1			Nd Oxide		Sintered Netro	B Permanent																							
1 2 3 4 5 5 6 7 7 8 9 9	-		Dy Oxide NdPr Oxide Pr Oxide		Bonded NHE Mag Offshore wi Electric	nets nd turbines		-										-											-
4			Pr Oxide Other REE Oxides		Electric Consumer	vehicles electronics		-																					-
5					Industria	al motors																							
8					Non-drive ba vehi Unkr	icles sown		-																					
5																													
	Comments	s:											NdfeR Alk	ava & Metala															
dect "No" if category is not relevan nit of Measurement	int to your operations													_															
nit of Measurement									otal:	2017	2017	2018	ere if Other) 2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026
Customer Name	Countr	ry of Sale	Type of REE Alloy/Metal	Specify Other REE Alloy/Metals (If Applicable)	End (If Kn	Use own)	10-Digit HTSUS Code (If Known)		nfluencing Sale	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (5 Thrusards USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD	Volume	Value	Volume	Value	Volume	Value (\$ Thousands
				(in Application)				Top Factor	nfluencing Sale	Volume	(\$ Thousands USD)	Volume	(\$ Thousands USD	() Volume	(\$ Thousands USD)	) Volume	(\$ Thousands USD	Volume	(\$ Thousands USD)	Volume	(\$ Thousands USD	) Volume	(\$ Thousands USE	) Volume	(\$ Thousands USD	Volume	(\$ Thousands USD)	Volume	(\$ Thousands
1			Nd Metal Dy Metal NdPr Metal Pr Metal		Bonded NH																								
3 4			NdPr Metal Pr Metal		Offshore wi Electric	nd turbines vehicles		-																					
5			Other REE Metals		Consumer Industria	electronics il motors		-																					
7 8					Non-drivetra vehi Unkr	iles town																							
1 2 3 4 5 5 6 7 7 8 8 9 9								-																					
	Comments	s:																											
select "No" if category is not relevan Unit of Measurement	int to your operations										1			FeB Magnets															
Unit of Measurement			1	1				1	otal:	2017	2017	(Specify H 2018	ere if Other) 2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026
Customer Name	Countr	y of Sale	Type of Magnet	End Use (If Known)	DFARS 225.70 2533c Co	18, 10 U.S.C.	10-Digit HTSUS Code (If Known)		otal:																				
			.,,	(If Known)	2533c Co	impliant?	(If Known)	Top Factor	nfluencing Sale	Volume	Value (\$ Thou sands USD)	Volume	Value (\$ Thousands USD	) Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USE	Volume	Value (\$ Thousands USD	Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands
			N25-N30	Sintered NdFeB Permanent Magnets	Ye	n		-																					-
2	1		N25M-N30M	Bonded NdFeB Permanent Magnets	N	lo		1		1				1	1		1		1				1	1		1			1
3	+		N25H-N30H	Offshore wind turbines	Unkr			-		-			<u> </u>	1		-			+				+				+		+
4			N255H-N305H	Electric vehicles																									
3 4 5 6 7			N25UH-N30UH N25EH-N30EH	Consumer electronics Industrial motors																									
7			N25AH-N30AH	Non-drivetrain motors in vehicles																									
8 9	-		1	-					-					1										1					1
10	Comments																												
													Bonded Nd	IFeB Magnets															
elect "No" if category is not relevan nit of Measurement	int to your operations											(Specify H																	
									otal:	2017	2017	(Specify H 2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026
Customer Name	Countr	ry of Sale	Type of Magnet	End Use (If Known)	DFARS 225.70 2533c Co	018, 10 U.S.C. impliant?	10-Digit HTSUS Code (If Known)	Ton Factor	nfluencing Sale	Volume	Value (5 Thrusands USD)	Volume	Value (\$ Thousands USD	a Volume	Value (\$ Thousands USD)	Volume	Value (\$ Thousands USD	Volume	Value (5 Thrusands USD)	Volume	Value	Volume	Value (\$ Thousands USE	Volume	Value (5 Throusandis USD	Volume	Value (5 Threesands USD)	Volume	Value (5 Thousand
1			1 MODe	Sintered Noreb							(> rhousands USD)		(\$ ihousands USD	0	(s rhousands USD)		to Thousands USD		(\$ iThousands USD)		(a) Inousands USD		(a Thousands USE		(> rhousands USD		(\$ /housands USD)		(a) Thousand
2			1 MGOe 12 MGOe	Permanent Marcols Permanent Marcols	N	lo				-							-	L	-				-						+
			1H MGOe 12H MGOe	Dermanent Maenets Offshore wind turbines Electric wehicles	Unkr	frwsk		1																					
6				Consumer electronics Industrial motors																									
7				whicles																									
1 3 4 5 5 5 7 8 9 9																													
·	Comments																·				·	· .		·		·			
Comments:																													
												NUMBER CONFIDE	TAL - Des Sect	705(d) of the Defen	co Deschustion 7														
											Ð	USINESS CONFIDEN	· · · · · · · · · · · · · · · · · · ·	voral of the Defen	as reduction Act														

12

Pre	vious Page										Next Page
				6. En	nployment						
Pec	ord the total number of full time equivalent (FTE) emplo	overs and contracto	ors for the <b>2017 to 2021</b>	(and expected for 2022-202	5) period for your or	appization employe	ad at the locations lis	ted in sections 22	and 2h. Estimates a	e accentable	
Ket		byees and contracto	DISTOI THE 2017 TO 2021	· · · · ·		gamzation employe		teu in sections za a	and 20. Estimates a	e acceptable.	
				Past	-		Current			ected	-
Α.		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
	FTE Employees & Contractors										
Rec	ord the number of workers by occupation employed at	the locations listed			ceptable.						
	Occupation		Number	of Employees							
	Engineers, Scientists, R&D				4						
	Production Line Operations				-						
в.	Testing and Quality Control				-						
	Information Technology/Computing				-						
	Sales, Administrative, and Management	(a. 16 )			-						
	Other	(Specify Here)			-						
		Total:		0							
	Issue		Timeframe	Primary Occupation Affected				Explain			
	Attracting Workers to Location		Ongoing, Expected to Continue	Engineers, Scientists, R&D							
	Employee Turnover		Past Only (Resolved)	Production Line Operations							
с.	Finding Experienced Workers		Expected In Future	Testing and Quality Control							
	Finding Qualified Workers		No or Not Applicable	Information Technology/Computing							
	Finding U.S. Citizens			Sales, Administrative, and Management							
	Significant Portion of Workforce Retiring			Other							
	Other	(Specify Here)		None							
	Other	(Specify Here)									
D.	Describe any significant changes in the recruitment, hiring and/or retention of human capital			-							
E.	If you plan to shutdown a facility, do you reasonably anticipate being able to hire or rehire workers?			Explain:							
	Comments:										
			BUSINE	ESS CONFIDENTIAL - Per Sect	ion 705(d) of the De	fense Production A	ct				

A. Has your organization conducted NdFeB Permanent Magnet product Record your organization's CapEx dollar expenditures and type of Ca										If no, proceed to the next section.		
1 Total CapEx 2 Machinery, Equipmen	, and Vehicles	2017 \$0	2018 \$0	Record \$ 2019 \$0	in Thousands, e.g. Past 2020 \$0	\$12,000.00 = survey input of \$ 2021 \$0	12	Current 2022 \$0	2023 \$0	Future 2024 \$0		202 \$0
3 IT, Computers, Softwa 4 Land, Buildings, and Le	asehold Improvements											
5 Other 6 Other	(Specify Here) (Specify Here)											_
ovide your organization's Ca ease provide any relevant C	pEx funding sources for 2021 only. Esti apEx projects that your organization is o	mates are acce urrently condu	eptable. U ucting (or	.S. and Non-U.S plans to conduc	5. Industry refers to tt by 2026).	o joint ventures or other partne	rships with your on	anization (does not inc	lude bonds, IPOs, or oth	er funding sou	urces). In	additio
Source of Fi ternal/Self-Funded	inding											
DE-Related (Including CMI & DD-Related	AMES)											
ther USG-Related ate/Local Government		CapEx Project	(s) Explain	ic .								
.S. Industry on-U.S. Industry												
on-U.S. Government ther (Specify Her	e)											
	Total: 0% anization experience any major change	s) in CanFx rel:	ated to Nr	IFeB Permanen	t Magnet related r	eroducts?						
Yes, identify the reasons for												_
	nization anticipate any major change(s	to CapEx relat	ted to NdF	FeB Permanent	Magnet related pr	oducts?						
Yes, identify the reasons for	these change(s):											
order to produce NdFeB Pe	rmanent Magnets and or related produ of the process chain that your organizat	cts, are there s	ignificant	CapEx costs as	sociated with prod	uction? If yes, please answer th	e following below.	If no, please proceed to	the next section. (Note	, only		
rovide CapEx for the step(s)	of the process chain that your organizat	ion participate	is in).			f RE Minerals						
Fundament	Continuent Development Name	Equipment	Producer	Single/Sole	Average lead		Primary	Colifford Theorem	Average cost to acquire			
Equipment	Equipment Producer Name	Equipment Coun	ntry	Single/Sole Source	time to acquire (in days)	Reason For Disruption (If Applicable)	Resolution (If Applicable)	Criticality	Average cost to acquire (\$ Thousands USD)	0	omments	
								4 - Little to no impact on production				
		-		Single Source	+	Cyber Security Incident	Designed Input Developed					
				Sole Source		Disease/Quarantine	Captive Capability	3 - Partial impact on production				
							Identified	2 - Significant impact on production				
		-		Neither		Equipment Outage	Another Supplier	1 - Critical to		-		
						Financial Constraint	Stockpiling	produce without)				
						Labor Disruption	Substituted Input					
						Regulatory/Environmental	Waited Until					
						Regulatory/Environmental Restrictions Other	Disruption Passed Other					
		-			-	None	None					
		1	R	ecycling/Reclar	nation of Rare Far	th Elements (REE) from Waste	Material			1		
Equipment	Equipment Producer Name	Equipment	Producer	Single/Sole	Average lead	Reason For Disruption	Primary Resolution	Criticality	Average cost to acquire (\$ Thousands USD)	-	omments	
u	systemetric adder manie	Coun	nry	Source	time to acquire (in days)	(If Applicable)	(If Applicable)		(\$ Thousands USD)			
		-			1		1					
		-			1							
		-										
					tion and R.	a of DE Cash					_	_
		Equipment	Producer			g of RE Carbonates and Oxides Reason For Disruption	Primary		Average cost to acquire	-		
Equipment	Equipment Producer Name	Equipment Coun	ntry	Single/Sole Source	Average lead time to acquire (in days)	Reason For Disruption (If Applicable)	Resolution (If Applicable)	Criticality	Average cost to acquire (\$ Thousands USD)	C	omments	
												_
		Facility	Deat	Charles (Tr. 1	Average lead	loy Production Reason For Disruption	Primary				_	
Equipment	Equipment Producer Name	Equipment Coun	roducer	Single/Sole Source	time to acquire (in days)	Reason For Disruption (If Applicable)	Primary Resolution (If Applicable)	Criticality	Average cost to acquire (\$ Thousands USD)	C	omments	
												-
		-										
		-					-					
		-										
		-										
		-				Magnet Production	Delanar					
Equipment	Equipment Producer Name	Equipment Coun	Producer	Single/Sole Source	Average lead time to acquire (in days)	Reason For Disruption (If Applicable)	Primary Resolution (If Applicable)	Criticality	Average cost to acquire (\$ Thousands USD)	* c	omments	
		-					-			-		
		-			1							
		-			1		-					
		1			L					L		
	1	1				Magnet Production		I				_
Equipment	Equipment Producer Name	Equipment Coun	Producer	Single/Sole Source	Average lead time to acquire (in days)	Reason For Disruption (If Applicable)	Primary Resolution (If Applicable)	Criticality	Average cost to acquire (\$ Thousands USD)	* c	omments	
		-					-					
					1		-					
							-					
												_
				Recycling/Re		eB Permanent Magnets from W						_
Equipment	Equipment Producer Name	Equipment	Producer	Single/Sole	Average lead time to acquire		Primary Resolution	Criticality	Average cost to acquire	±	omments	
Equipment	Equipment Producer Name	Equipment	Producer			eB Permanent Magnets from W Reason For Disruption (If Applicable)		Criticality	Average cost to acquire (\$ Thousands USD)	e c	omments	
Equipment	Equipment Producer Name	Equipment	Producer htry	Single/Sole	Average lead time to acquire		Primary Resolution	Criticality	Average cost to acquir (\$ Thousands USD)	e c	omments	
Equipment	Equipment Producer Name	Equipment	Producer	Single/Sole	Average lead time to acquire		Primary Resolution	Criticality	Average cost to acquir (\$ Thousands USD)	e c	omments	
Equipment	Equipment Producer Name	Equipment	Producer	Single/Sole	Average lead time to acquire		Primary Resolution	Criticality	Average cost to acquir (\$ Thousands USD)	* c	omments	
Equipment	Equipment Producer Name	Equipment	Producer	Single/Sole	Average lead time to acquire		Primary Resolution	Criticality	Average cost to acquir (\$ Thousands USD)	c	iomments	
Equipment	Equipment Producer Name	Equipment	Producer	Single/Sole	Average lead time to acquire		Primary Resolution	Criticality	Average cost to acquire (\$ Thousands USD)	c	omments	

B. Research & Development/Intellectual Property     A or expects to for 2022-2023 (a)     if no, proceed to part D below     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, e.g. \$12,000,00 - survey input of \$12     Record \$ in Thousands, E.g. \$12     Record \$ in thouse \$ Survey or ganization in surrerial in a survey or aniza
Arr or expects to for 2022-2026;       Inits, proceed to part D dots         Record your organization's R&D dollar expenditures and type of R&D expenditure for the 2017-2021 (2022-2026 estimates) period.       Inits, proceed to part D dots         Record S in Thousands, e.g. \$22,000.00 = survey input of \$12       Entropy of \$10,000 = survey input of \$12         Image: Research       \$10,000 = survey input of \$12       Entropy of \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 = \$20,000 =
Record \$ in Thousands, e.g. \$12,000.00 = survey input of \$12           Past         Current         Future           2017         2018         2017         2020         2021         2022         2024         2025         202           3         Applied Research         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0
B.         Past         Current         Future           2017         2018         2019         2020         2021         2022         2023         2024         2025         202           1         Total R&D Expenditures         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0
B.       2017       2018       2019       2020       2021       2022       2023       2024       2025       2026       2026       2027       2027       2028       2024       2026       2026       2027       2028       2024       2026       2026       2026       2026       2026       2026       2027       2027       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       2028       <
B.       1       Total R&D Expenditures       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0       \$0 <t< td=""></t<>
3       Applied Research       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a
4       Product/Process Development       Image: Construct Process Development         From 2017-2021, did your organization experience any major change(s) in R&D expenditures related to NdFeB Permanent Magnet related products?         If Yes, identify the reasons for these change(s):         For 2022-2026, does your organization anticipate any major change(s) to R&D expenditures related to NdFeB Permanent Magnet related products?         If Yes, identify the reasons for these change(s):         For 2022-2026, does your organization anticipate any major change(s) to R&D expenditures related to NdFeB Permanent Magnet related products?         If Yes, identify the reasons for these change(s):         Provide your organization's R&D funding sources for 2021 only. Estimates are acceptable. U.S. and Non-U.S. Industry refers to joint ventures or other partnerships with your organization is currently conducting (or partnerships with your organization is currently conducting (or partnerships with your organization is currently conducting (or plans to conduct by 2026).         Source of Funding Internal/SPE Funded       Imternal/SPE Funded         DOE-Related       Inclusion (Construct)         Non-U.S. Industry       Imternal/SPE Funded
If Yes, identify the reasons for these change(s):         For 2022-2026, does your organization anticipate any major change(s) to R&D expenditures related to NdFeB Permanent Magnet related products?         If Yes, identify the reasons for these change(s):         Provide your organization's R&D funding sources for 2021 only. Estimates are acceptable. U.S. and Non-U.S. Industry refers to joint ventures or other partnerships with your organization (does not include bonds, IPOs, or other funding sources). In addition, please provide any relevant R&D projects that your organization is currently conducting (or plans to conduct by 2026).         Source of Funding       Internal/SelF-funded         Internal/SelF-funded       R&D Project(s) Explain:         U.S. Industry       Non-U.S. Industry         Non-U.S. Government       Non-U.S. Government         U.S. Government       Other         Other       (Specify Here)         Total:       0%         If your organization refers to when the IP was licensed from a regulatory agency. For licensees, section.         Rcor the rollowing. The sentant magnets or related products.       If no, proceed to the next section.         Rcor the rollowing. The sentant magnets or related products.       Provide Powieh is critical (can not produce without) to the production of MiFeB Permanent Magnet products.         Rcor the rollowing. The sentant magnets or related products.       Provide Your organization refers to when the IP was approved. Note, only provide IP which is critical (can not produce without) to
If Yes, identify the reasons for these change(s):         For 2022-2026, does your organization anticipate any major change(s) to R&D expenditures related to NdFeB Permanent Magnet related products?         If Yes, identify the reasons for these change(s):         Provide your organization's R&D funding sources for 2021 only. Estimates are acceptable. U.S. and Non-U.S. Industry refers to joint ventures or other partnerships with your organization (does not include bonds, IPOs, or other funding sources). In addition, please provide any relevant R&D projects that your organization is currently conducting (or plans to conduct by 2026).         Source of Funding       Internal/SelF-funded         Internal/SelF-funded       R&D Project(s) Explain:         U.S. Industry       Non-U.S. Industry         Non-U.S. Government       Non-U.S. Government         U.S. Government       Other         Other       (Specify Here)         Total:       0%         If your organization refers to when the IP was licensed from a regulatory agency. For licensees, section.         Rcor the rollowing. The sentant magnets or related products.       If no, proceed to the next section.         Rcor the rollowing. The sentant magnets or related products.       Provide Powieh is critical (can not produce without) to the production of MiFeB Permanent Magnet products.         Rcor the rollowing. The sentant magnets or related products.       Provide Your organization refers to when the IP was approved. Note, only provide IP which is critical (can not produce without) to
For 2022-2026, does your organization anticipate any major change(s) to R&D expenditures related to NdFeB Permanent Magnet related products?         If Yes, identify the reasons for these change(s):         Provide your organization's R&D funding sources for 2021 only. Estimates are acceptable. U.S. and Non-U.S. Industry refers to joint ventures or other partnerships with your organization (does not include bonds, IPOs, or other funding sources). In addition, please provide any relevant R&D projects that your organization is currently conducting (or plans to conduct by 2026).         Source of Funding         Internal/Self-Funded         DOE-Related         Other USG-Related         Other         State/Local Government         U.S. Industry         Non-U.S. Government         Other         Other         Specify Here)         Total:       0%         Did your organization refers to when access to the IP was approved. Note, only provide IP which is critical (can not produce without) to the production of MFeB Permanent Magnet related products.         Record the following: The serial mumber of the IP your organization utilizes, the organization which owns the IP, and the date of acquisition (can include anticipated acquisition date) acquisition         contract bill Owner       Cost of Acquisition         contract of More Bernanent Magnet       Cost of Acquisition         contract of the IP your organization utilizes, the organization which owns the IP, and the date of acqu
If Yes, identify the reasons for these change(s):         Provide your organization's R&D funding sources for 2021 only. Estimates are acceptable. U.S. and Non-U.S. Industry refers to joint ventures or other partnerships with your organization (does not include bonds, IPOs, or other funding sources). In addition, please provide any relevant R&D projects that your organization is currently conducting (or plans to conduct by 2026).         Source of Funding
Provide your organization's R&D funding sources for 2021 only. Estimates are acceptable. U.S. and Non-U.S. Industry refers to joint ventures or other partnerships with your organization (does not include bonds, IPOs, or other funding sources). In addition, please provide any relevant R&D projects that your organization is currently conducting (or plans to conduct by 2026).         Source of Funding
c.       pranization (does not include bonds, IPOs, or other funding sources). In addition, please provide any relevant R&D projects that your organization is currently conducting (or plans to conduct by 2026).         Source of Funding
Internal/Self-Funded
DOE-Related (including CMI & AMES)
Other USG-Related
State/Local Government       R&D Project(s) Explain:         U.S. Industry       Non-U.S. Industry         Non-U.S. Industry       Non-U.S. Government         Other       (Specify Here)         Total:       0%         Did your organization own or use NdFeB Permanent Magnet related intellectual property (IP) from 2017-2021 (and or expects to for a regulatory agency. For licensees, date of acquisition refers to when the IP was licensed from a regulatory agency. For licensees, date of acquisition refers to the IP was approved. Note, only provide IP which is critical (can not produce without) to the production of NdFeB Permanent Magnets or related products.       If no, proceed to the next section.         Record the following: The serial number of the IP your organization utilizes, the organization which owns the IP, and the date of acquisition include anticipated acquisition dates).       ID Number
Non-U.S. Industry
Non-U.S. Government       Image: Country of IR Owner       Total:       0%         Did your organization own or use NdFeB Permanent Magnet related intellectual property (IP) from 2017-2021 (and or expects to for acquisition refers to when the IP was approved. Note, only provide IP which is critical (can not produce without) to the production of NdFeB Permanent Magnets or related products.       If no, proceed to the next section.         Record the following: The serial number of the IP was approved. Note, only provide IP which is critical (can not produce without) to the access to the IP was approved. Note, only provide IP which is critical (can not produce without) to the production of NdFeB Permanent Magnets or related products.       If no, proceed to the next section.         Record the following: The serial number of the IP your organization utilizes, the organization which owns the IP, and the date of acquisition (can include anticipated acquisition dates).       ID Number
Did your organization own or use NdFeB Permanent Magnet related intellectual property (IP) from 2017-2021 (and or expects to for 2022-2026)? For original inventors, date of acquisition refers to when the IP was licensed from a regulatory agency. For licensees, date of acquisition refers to when access to the IP was approved. Note, only provide IP which is critical (can not produce without) to the production of NdFeB Permanent Magnets or related products.       If no, proceed to the next section.         Record the following: The serial number of the IP your organization utilizes, the organization which owns the IP, and the date of acquisition include anticipated acquisition dates).       Date of Acquisition       Cost of Acquisition
Did your organization own or use NdFeB Permanent Magnet related intellectual property (IP) from 2017-2021 (and or expects to for 2022-2026)? For original inventors, date of acquisition refers to when the IP was licensed from a regulatory agency. For licensees, date of acquisition refers to the IP was approved. Note, only provide IP which is critical (can not produce without) to the production of NdFeB Permanent Magnets or related products. Record the following: The serial number of the IP your organization utilizes, the organization which owns the IP, and the date of acquisition include anticipated acquisition dates). ID Number II P Number Country of IP Owner Country of IP Owner Date of Acquisition Cost of Acquis
dates)
IB Number Name of IB Owner Country of IB Owner Date of Acquisition Cost of Acquisition Comments
Image: state in the state
Image: second
Image: second
E
Has your organization encountered difficulties in obtaining NdFeB Permanent Magnet related IP? If yes, please explain below.
Comments:

Prev	ious Page				Next Pag		
				9. National Defense/Critical Infrastructure			
А.	Since 2017, has your organization directly or indirectly s	supplied NdFeB Pern	nanent Magnets or related product	ts for incorporation into U.S. critical infrastructure sectors? If no, proceed to part C. If yes, proceed to part B.			
	r 2022-2026, does your organization plan to directly or indirectly supply NdFeB Permanent Magnets or related products for incorporation into U.S. critical infrastructure sectors? If no, proceed to part C. If yes, proceed to part B.						
	For 2017-2021, rank the top three critical infrastructure sectors your organization directly or indirectly supplies NdFeB Permanent Magnets and or related products for. Please do the same for 2022-2026.						
		E	Definitions of each sector may be fo	ound at: https://www.cisa.gov/critical-infrastructure-sectors			
	Critical Infrastructure Sector	(2017-2021)	(2022-2026)				
L L	Chemical Sector						
	Commercial Facilities Sector						
	Communications Sector						
	Critical Manufacturing Sector						
	Dams Sector						
	Defense Industrial Base Sector						
В.	Emergency Services Sector						
	Energy Sector						
	Financial Services Sector						
	Food and Agriculture Sector						
	Government and Facilities Sector			•			
	Healthcare and Public Health Sector						
	Information Technology Sector						
	Nuclear Reactors, Materials, and Waste Sector						
	Transportation Systems Sector						
	Waste and Wastewater Systems Sector						
		at product catogori	or affected your ability to most our	const. IL 5. Critical Infracture two convictsments? Places availain below. If no. proceed to part D.			
How have current market conditions involving the subject product categories affected your ability to meet current U.S. Critical Infrastructure requirements? Please explain below. If no, proceed to part D.							
С.							
	How have current market conditions involving the subj	ect product categori	es affected your ability to meet cur	rrent U.S. Defense requirements? Please explain below. If no, proceed to part E.			
D.							
<i>D</i> .							
					-		
	below.	npliant with DEARS 2	225.7018, 10 0.S.C. 2533c, The Jor	hn S. McCain National Defense Authorization Act - NDAA 2019'? Indicate when your organization began this effort (or plans to) and please explain			
Ε.	Definition/Terms may be found at: https://www.federa	lregister.gov/docun	nents/2019/04/30/2019-08485/de	fense-federal-acquisition-regulation-supplement-restriction-on-the-acquisition-of-certain-magnets			
					-		
	Comments:						
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act						

	vious Page		10 Comp	etition/Challenges				
	Does your organization struggle to compete against	imports and or exporting abroad? Do you ex			t question. If no, please proceed to part			
	B.			,, p				
	Are any of the input conditions below hindering you	r organization's ability to compete on price?	If yes, answer the following questions below. If	no, please proceed to part B.				
		Descentees of total energing costs	Would changing current government regulations/incentives significantly improve	If Yes specify the				
	Input Condition	Percentage of total operating costs (Estimates Acceptable)	your organization's ability to compete on	If Yes, specify the regulation/incentive below		Explain		
			price?					
	Electricity		Yes					
	Environmental Regulations		No Not Applicable					
Α.	Export Licensing/Regulations Labor		Not Applicable					
	Sourcing Feedstock Material							
	Taxes Transportation Costs							
	VAT Taxes, Tariffs, and other Trade Duties							
	Other (Specify Here)	- 20						
	Total:	0%						
	What single change (and to which portion of the Nd most significantly improve cost competitiveness by 2	FeB Permanent Magnet supply chain) would	1					
	most significantly improve cost competitiveness by a	2020: Please explain to the right.						
	Comments:							
	Does your organization currently participate in any c	cooperative production, sourcing, informatio	n sharing, and or other agreements with other f	irms/governments outside of the U	nited States? Do you intend to			
	Does your organization currently participate in any or participate in the future/continue participation? If y	es, answer the following questions below. If	no, please proceed to Part C.	-				
	Country	Anticipated/Past Start Date (If Applicable)	Anticipated/Past End Date (If Applicable)			Explain		
		(II Applicable)	(ii Applicable)					
В.								
	Comments:							
	Is your organization looking to expand its operations responses to only activities that your organization p	domestically (or internationally) between 2	022-2026? If yes, answer the following question	s below. If no, please proceed to pa	art D. Note, limit market share			
	responses to only activities that your organization p	performs (i.e. do not provide responses on t	the market as a whole or in general).					
	Country	Current market share (Estimates accentable)	Anticipated change in market share 2022-2026	Primary challenge to incr (If Applics	easing market share	Ex	plain	
		(Estimates acceptable)	Increase	(If Applica Domestic Con				
			Decrease	Environmental regulat				
			No Change	Export controls/	ITAR & EAR			
C.			Unknown	Financing/credit Foreign Com				
				Input availa				
				Labor availabi	lity/costs			
				Quality of i				
				Taxes Trade dispute				
	Comments:		1		I.			
H								
	Identify the primary challenges/issues affecting your	competitive position in the overall [U.S. and	d non-U.S.] subject product markets. Rank the le	ading 5 most significant challenges	(1 being the most important issue/impa	ct; 2 being the next most importan	t issue/impact, etc	.). Explain your response.
			1		1			
	Challenge/I		Challenge Experie	nced?	Rank Top 5	Ex	plain	
	1 Aging equipment, facilities, or infrastructure	2	Yes		1			
	2 Aging workforce 3 Counterfeit parts		No		2 3			
	4 Cyber security				4			
	5 Domestic competition				5			
	6 Environmental regulations/remediation							
	7 Export controls/ITAR & EAR 8 Financing/credit availability							
	9 Foreign competition							
	10 Government acquisition process							
	11 Government purchasing volatility							
	12 Government regulatory burden 13 Healthcare							
D.	14 Industrial espionage - domestic							
D.	15 Industrial espionage - foreign							
D.	15 Industrial espionage - foreign     16 Input availability							
D.	15 Industrial espionage - foreign							
D.	15         Industrial espionage - foreign           16         Input availability           17         Intellectual property/patent infringement           18         Labor availability/costs           19         Natural disasters (including disease/quarant	ine)						
D.	15         Industrial espinonage - foreign           16         Input availability           17         Intellectual property/patent infringement           18         Labor availability/costs           19         Natural disasters (including disease/quarant           20         Obsolescence	ine)						
D.	15     Industrial explonage - foreign       16     Input availability       17     Intellectual property/patent infringement       18     Labor availability/costs       19     Natural disasters (including disease/quarant       20     Obsolescence       21     Pension costs       22     Proximity to customers	ine)						
D.	Industrial espionage - foreign     Industrial espionage     Industrial espio	ine)						
D.	15         Industrial explonage - foreign           16         Input availability           17         Intellectual property/patent infringement           18         Labor availability/costs           19         Natural disasters (including disease/quarant           20         Obsolescence           21         Pension costs           22         Proximity to customers           23         Proximity to suppliers           24         Qualifications/certifications	ine)						
D.	15         Industrial explonage - foreign           16         Input satislibility           17         Intellectual property/patent infringement           18         Labor availability/costs           19         Natural dissers' fincluding disease/quarant           20         Obsolescence           21         Pension costs           22         Proximity to suspilers           23         Proximity to suppliers           24         Qualifications/certifications           25         Quality of inputs           26         R&D costs	ine)						
D.	15     Industrial explonage - foreign       16     Input availability       17     Intellectual property/patent infringement       18     Labor availability/costs       19     Natural disasters (including disease/quarant       20     Obsolescence       21     Pension costs       22     Proximity to customers       23     Proximity to customers       24     Qualifications/certifications       25     Quality of inputs       26     R&D costs       27     Reduction in USG demand	ine)						
D.	15         Industrial explonage - foreign           16         Input satislibility           17         Intellectual property/patent infringement           18         Labor availability/costs           19         Natural dissers' fincluding disease/quarant           20         Obsolescence           21         Pension costs           22         Proximity to suspilers           23         Proximity to suppliers           24         Qualifications/certifications           25         Quality of inputs           26         R&D costs	ine)						
D.	15     Industrial espionage - foreign       15     Input availability       17     Intellectual property/patent infringement       18     Labor availability/costs       19     Natural disasters (including disease/quarant       20     Obsolescence       21     Pension costs       22     Proximity to customers       23     Proximity to suppliers       24     Qualifications/certifications       25     Qualify of Inputs       26     Reduction in USG demand       27     Reduction in USG demand       28     Trade disputes/tariffs       29     Trade disputes/tariffs       20     Worker/skills retention							
D.	15         Industrial explonage - foreign           16         Input svaliability           17         Intellectual property/patent infringement           18         Labor availability/costs           19         Natural dissers' fincluding disease/quarant           20         Obsolescence           21         Pension costs           22         Proximity to customers           23         Proximity to suppliers           24         Qualifications/certifications           25         Quality of inputs           26         RoB Costs           27         Reduction in USG demand           28         Taxes           29         Trade disputes/tariffs           30         Worker/skills retention           31         Other	(specify)						
D.	15       Industrial explorage - foreign         16       Ingut availability         17       Intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to customers         23       Proximity to suppliers         24       Qualifications/certifications         25       Quality of inputs         26       R&D. Costs         27       Reduction in USG demand         28       Taxes         29       Trade disputss/tariffs         30       Worker/skills retention         31       Other	(specify) (specify)						
D.	15         Industrial explonage - foreign           16         Input svaliability           17         Intellectual property/patent infringement           18         Labor availability/costs           19         Natural dissers' fincluding disease/quarant           20         Obsolescence           21         Pension costs           22         Proximity to customers           23         Proximity to suppliers           24         Qualifications/certifications           25         Quality of inputs           26         RoB Costs           27         Reduction in USG demand           28         Taxes           29         Trade disputes/tariffs           30         Worker/skills retention           31         Other	(specify) (specify)	ing the three most significant impacts and three	most important actions (1 being th	ne most important impact/action; 2 bein	g the next most important impact/	action, etc.):	
D.	15       Industrial espionage - foreign         16       ingut availability         17       Intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to suspillers         23       Proximity to suspillers         24       Qualific disputes/tarifits         25       Qualific disputes/tarifits         28       Taxets         29       Trade disputes/tarifits         30       Worker/skills retention         31       Other         32       Other	(specify) (specify) VID-19 pandemic at your organization, rank						Park
D.	15       Industrial explorage - foreign         16       Ingut availability         17       Intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to customers         23       Proximity to suppliers         24       Qualifications/certifications         25       Quality of inputs         26       R&D. Costs         27       Reduction in USG demand         28       Taxes         29       Trade disputss/tariffs         30       Worker/skills retention         31       Other	(specify) (specify) VID-19 pandemic at your organization, rank	ing the three most significant impacts and three	most important actions (1 being th Rank Top 3	ne most important impact/action; 2 bein Actions T		action, etc.); Short Term/ Long Term/	Rank Top 3
D.	15       Industrial espionage - foreign         16       ingut availability         17       Intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to suspillers         23       Proximity to suspillers         24       Qualific disputes/tarifits         25       Qualific disputes/tarifits         28       Taxets         29       Trade disputes/tarifits         30       Worker/skills retention         31       Other         32       Other	(specify) (specify) VID-19 pandemic at your organization, rank		Rank			Short Term/	
D.	15       Industrial explorage-foreign         16       Input svaliability         17       Intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to suppliers         23       Proximity to suppliers         24       Qualifications/certifications         25       Quality of inputs         26       R5D costs         27       Reduction in USG demand         28       Taxes         29       Trade disputes/tariffs         30       Worker/skills retention         31       Other         32       Other         Identify any impacts or actions resulting from the CC         Impacts Exper         Increased cost of materials         nability to access work location	(specify) (specify) VID-19 pandemic at your organization, rank	-Yes/No-	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti	'aken	Short Term/ Long Term Short Term Long Term	Top 3 1 2
D.	Industrial explonage - foreign     Industrial explonage - foreign     Industrial explonage - foreign     Intellectual property/patent infringement     Labor availability/cost     Intellectual property/patent infringement     Labor availability/cost     Intellectual property/patent     Intellectual property patent     Intell	(specify) (specify) VID-19 pandemic at your organization, rank	-Yes/No- Yes	Rank Top 3 1	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance	'aken	Short Term/ Long Term Short Term	Top 3 1
	15       Industrial explorage-foreign         16       Input svaliability         17       Intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to suppliers         23       Proximity to suppliers         24       Qualifications/certifications         25       Quality of inputs         26       R5D costs         27       Reduction in USG demand         28       Taxes         29       Trade disputes/tariffs         30       Worker/skills retention         31       Other         32       Other         Identify any impacts or actions resulting from the CC         Impacts Exper         Increased cost of materials         nability to access work location	(specify) (specify) VID-19 pandemic at your organization, rank	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti	'aken les	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	15       industrial explorage-foreign         16       ingut availability         17       intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters' (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to suspliers         23       Poximity to suspliers         24       Qualifications/certifications         25       Qualifications/certifications         28       Race Costs         29       Rothor of Use States         21       Pension costs         22       Oktor         31       Other         32       Other         33       Other         34       Other         35       Other         Identify any impacts or actions resulting from the CC         Impacts Steper         increased cost of materials         mability to fulfill contracts         Reduced sales         Foreign supplier manufacturing delays         Domestic supplicer manufacturing delays	(specify) (specify) VID-19 pandemic at your organization, rank	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers	aken es oducts	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	Industrial espionage - foreign     Industrial espionage - foreign     Industrial espionage - foreign     Intellectual property/patent infringement     Itaber availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Posionic osts     Posionic to subs     Posionic in USG demand     Ze Reduction in USG demand     Ze Reduction in USG demand     Ze Traces     Posionic in USG demand     Posionic to the other     Impacts Exper     Increased cost of materials     Inability to actes work location     Inability to fulfil contracts     Reduced sales     Foreign suppler manufacturing delays     Domests     Supplier manufacturing delays	(specify) (specify) VID-19 pandemic at your organization, rank	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related pre Increase use of domestic suppliers Reduce use of suppliers located in Chin	aken es oducts	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	15       industrial explorage-foreign         16       ingut availability         17       intellectual property/patent infringement         18       Labor availability/costs         19       Natural disasters' (including disease/quarant         20       Obsolescence         21       Pension costs         22       Proximity to suspliers         23       Poximity to suspliers         24       Qualifications/certifications         25       Qualifications/certifications         28       Race Costs         29       Rothor of Use States         21       Pension costs         22       Oktor         31       Other         32       Other         33       Other         34       Other         35       Other         Identify any impacts or actions resulting from the CC         Impacts Steper         increased cost of materials         mability to fulfill contracts         Reduced sales         Foreign supplier manufacturing delays         Domestic supplicer manufacturing delays	(specify) (specify) VID-19 pandemic at your organization, rank	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers	aken es oducts	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	Industrial espionage - foreign     Industrial espionage - foreign     Industrial espionage - foreign     Intellectual property/patent infringement     Labor availability/cost     Intellectual property/patent infringement     Labor availability/cost     Intellectual property/patent infringement     Labor availability/cost     Intellectual property/patent infringement     Cobsolescence     Intellectual property/patent infringement     Cobsolescence     Intellectual property/patent     Costs     Intellectual property/patent     Intellectual property/pat	(specify) (specify) VID-19 pandemic at your organization, rank lenced	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related pr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outsid Increase inventories Increase supplier redundancy	aken es oducts a e the U.S. and China	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	Industrial espionage - foreign     Industrial espionage - foreign     Industrial espionage - foreign     Intellectual property/patent infringement     Italian - an intellectual property/patent     Intellectual patent     In	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify)	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	Industrial espionage - foreign     Industrial espionage - foreign     Industrial espionage - foreign     Intellectual property/patent infringement     Italian and italian - foreign     Natural disasters (including disease/quarant     20 Obsolescence     Intellectual property/patent     Natural disasters (including disease/quarant     20 Obsolescence     Qualifications/certifications     Qualifications/certifications     Reduction in USG demand     Takes     Prosimity to suppliers     Qualifications/certifications     Qualifications/certifications     Qualifications/certifications     Other     Impacts Exper     Impacts Constant     Impacts Exper     Impacts Constant     Impacts Exper     Increased cost of materials     Inability to furtile contracts     Reduced sales     Foreign supplier manufacturing delays     Increased disruptions     Financing diffuculties     Labor shortages     Other	(specify) (specify) VID-19 pandemic at your organization, rank lenced	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related pr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outsid Increase inventories Increase supplier redundancy	aken es oducts a e the U.S. and China	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	Industrial espionage - foreign     Industrial espionage - foreign     Industrial espionage - foreign     Intellectual property/patent infringement     Itabor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent     Costs     Proximity to suspliers     Labor availability/costs     Intellectual property/patent     Costs     Proximity to suspliers     Labor availability/costs     Intellectual propertifications     Costs     Costs     Proximity to suspliers     Costs     Costs     Costs     Intellectual propertifications     Intellectual propertifications     Intellectual	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify)	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	Industrial espionage - foreign     Industrial espionage - foreign     Industrial espionage - foreign     Intellectual property/patent infringement     Italian and italian - foreign     Natural disasters (including disease/quarant     20 Obsolescence     Intellectual property/patent     Natural disasters (including disease/quarant     20 Obsolescence     Qualifications/certifications     Qualifications/certifications     Reduction in USG demand     Takes     Prosimity to suppliers     Qualifications/certifications     Qualifications/certifications     Qualifications/certifications     Other     Impacts Exper     Impacts Constant     Impacts Exper     Impacts Constant     Impacts Exper     Increased cost of materials     Inability to furtile contracts     Reduced sales     Foreign supplier manufacturing delays     Increased disruptions     Financing diffuculties     Labor shortages     Other	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify)	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	15 industrial explorage - foreign     15 industrial explorage - foreign     16 ingut availability     17 intellectual property/patent infringement     18 Labor availability(cost     19 Natural disasters (including disease/quarant     20 Obsolescence     21 Pension costs     22 Proximity to suspliers     22 Proximity to suspliers     23 Proximity to suspliers     24 Qualifications/certifications     25 Quality of inputs     26 R&D costs     27 Reduction in USG demand     28 Taxes     29 Trade disputes/tariffs     30 Worker/skills retention     31 Other     32 Other     31 Other     32 Other     32 Other     32 Other     33 Morker/skills retention     34 Cost of materials     17 rade disputes/tariffs     30 Worker/skills retention     31 Demailty to fullity contracts     Reducted sales     Foreign supplier manufacturing delays     Domeste Supplier manufacturing delays     Dother     dentify any USG actions that could have better     mitigated/prevented COVID-19 impacts to your     organization:	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify)	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	Industrial espionage - foreign     Industrial espionage - foreign     Industrial espionage - foreign     Intellectual property/patent infringement     Itabor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent infringement     Labor availability/costs     Intellectual property/patent     Costs     Proximity to suspliers     Labor availability/costs     Intellectual property/patent     Costs     Proximity to suspliers     Labor availability/costs     Intellectual propertifications     Costs     Costs     Proximity to suspliers     Costs     Costs     Costs     Intellectual propertifications     Intellectual propertifications     Intellectual	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify)	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	15 industrial espionage - foreign     15 industrial espionage - foreign     16 ingut availability     17 intellectual property/patent infringement     18 Labor availability/costs     19 Natrual disasters (including disease/quarant     20 Obsolescence     21 Pension costs     22 Proximity to customers     23 Proximity to suspilers     24 Qualifications/certifications     25 Qualify of inputs     26 Reduction in USG demand     27 Reduction in USG demand     28 Taxes     29 Trade disputes/tarifis     30 Worker/skills retention     31 Other     32 Other     Inpacts Exper     Increased cost of materials     Inability to fullific contracts     Reduced sales     Foreign supplier manufacturing delays     Domestic supplier manufacturing delays     Domestic supplier manufacturing delays     Increased denand     Transportation-based disruptions     Transportation-based disruptions     Transportations     Other	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify)	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	15 industrial espionage - foreign     15 industrial espionage - foreign     16 ingut availability     17 intellectual property/patent infringement     18 Labor availability/costs     19 Natrual disasters (including disease/quarant     20 Obsolescence     21 Pension costs     22 Proximity to customers     23 Proximity to suspilers     24 Qualifications/certifications     25 Qualify of inputs     26 Reduction in USG demand     27 Reduction in USG demand     28 Taxes     29 Trade disputes/tarifis     30 Worker/skills retention     31 Other     32 Other     Inpacts Exper     Increased cost of materials     Inability to fullific contracts     Reduced sales     Foreign supplier manufacturing delays     Domestic supplier manufacturing delays     Domestic supplier manufacturing delays     Increased denand     Transportation-based disruptions     Transportation-based disruptions     Transportations     Other	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify) (specify)	-Yes/No- Yes	Rank Top 3 1 2	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related prr Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2
	15 industrial espionage - foreign 16 ingut availability 17 intellectual property/patent infringement 18 Labor availability/costs 19 Natural Gasters (including disease/quarant 20 Obsolescence 21 Pension costs 22 Proximity to suspilers 23 Proximity to suspilers 24 Qualifications/certifications 25 Quality of Inputs 26 R&D costs 27 Reduction in USG demand 28 Taxes 29 Trade disputes/tariffs 30 Worker/skills retention 31 Other 32 Other 32 Other 33 Other 34 Costs 35 Other 36 R&D costs 36 Other 37 Reduction in USG demand 38 Taxes 30 Worker/skills retention 39 Worker/skills retention 30 Worker/skills retention 31 Other 32 Other 33 Other 34 Costs 35 Other 36 Demanda States 36 Demanda States 37 Reduction in USG actions resulting from the CC Impacts Experi 37 Insportation-based disruptions 38 Financing difficulties 39 Other 30 Other 3	(specify) (specify) VID-19 pandemic at your organization, rank ienced (specify) (specify)	-Yes/No- Yes	Rank Top 3 1 2 3	Actions T Reduce workforce Increase online/remote work capabiliti Seek government assistance Delay or reject new contracts Begin to produce pandemic-related pri Increase use of domestic suppliers Reduce use of suppliers located in Chin Reduce use of suppliers located in Chin Reduce use of suppliers located outside Increase supplier redundancy Increase Supplier redundancy Other Other	aken es oducts a e the U.S. and China (specify)	Short Term/ Long Term Short Term Long Term	Top 3 1 2

<u>Previous Page</u>						
11. 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 NdFeB232@bis.doc.gov. Be sure to retain your survey for your records and to facilitate any necessary edits or clarifications.						
Organization Name	0					
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 comm	ents or any other information you wish to include regarding this survey assessment.					
How many hours did it take to complete this su	irvey?					
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act						