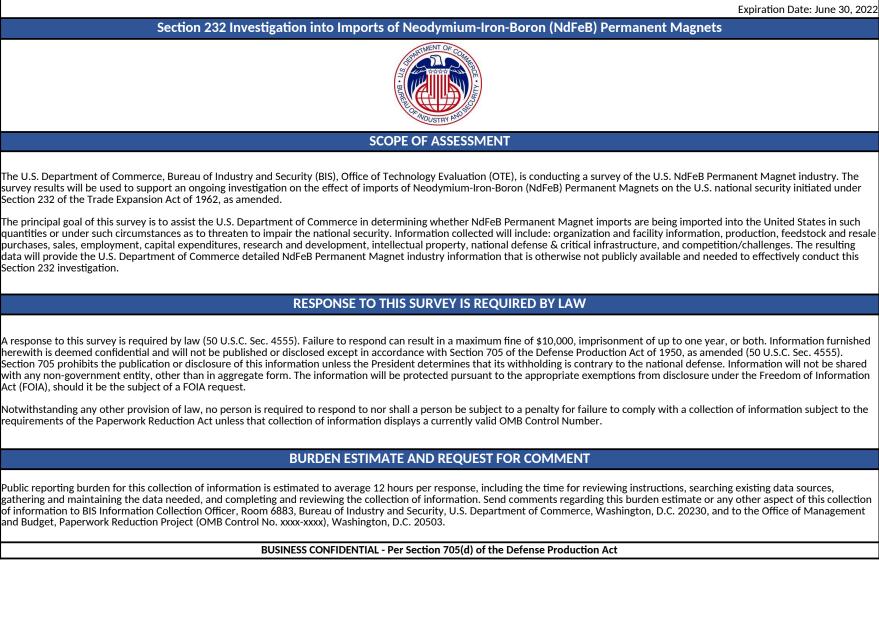
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OMB Control Number: XXXX-XXXX



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	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. DO NOT SUBMIT the PDF version of the survey as your response to BIS. Should this occur, your organization will be required to resubmit the survey in the requested Excel format.
В.	Respond to every question. Surveys that are not fully completed will be returned for completion. Use the comment boxes to provide any information to supplement responses provided in the survey form. Make sure to record a complete answer in the space provided, even if the space does not appear to expand to fit all of the information. DO NOT CUT AND PASTE RESPONSES WITHIN THIS SURVEY OR PASTE IN RESPONSES FROM OUTSIDE THE SURVEY . Survey inputs should be completed by typing in responses or by using a drop-down menu. The use of cut and paste can corrupt the survey template. If your survey response is corrupted as a result of cut and paste response, your survey will be rejected and your organization must immediately resubmit the survey.
С.	Do not disclose any USG classified information in this survey form.
D.	Upon completion of the survey, final review, and certification, transmit the survey document via e-mail to : 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 DO NOT 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>
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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. Ir	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	
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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	
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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															
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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		
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		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												
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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)												
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E	5 5 MGOe 6 6 MGOe												
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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					

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												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.																													
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	(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
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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	
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elect "No" if category is not relevan nit of Measurement	int to your operations											(Specify H																	
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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														

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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 2017 to 2021	(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 =
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
B. Past Current Future 2017 2018 2019 2020 2021 2022 2023 2024 2025 202 1 Total R&D Expenditures \$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 <
B. 1 Total R&D Expenditures \$0 <t< td=""></t<>
3 Applied Research 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							
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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						