

Section 232 Investigation into Imports of Neodymium-Iron-Boron (NdFeB) Permanent Magnets



SCOPE OF ASSESSMENT

The U.S. Department of Commerce, Bureau of Industry and Security (BIS), Office of Technology Evaluation (OTE), is conducting a survey of the U.S. NdFeB Permanent Magnet industry. The survey results will be used to support an ongoing investigation on the effect of imports of Neodymium-Iron-Boron (NdFeB) Permanent Magnets on the U.S. national security initiated under Section 232 of the Trade Expansion Act of 1962, as amended.

The principal goal of this survey is to assist the U.S. Department of Commerce in determining whether NdFeB Permanent Magnet imports are being imported into the United States in such quantities or under such circumstances as to threaten to impair the national security. Information collected will include: organization and facility information, production, feedstock and resale purchases, sales, employment, capital expenditures, research and development, intellectual property, national defense & critical infrastructure, and competition/challenges. The resulting data will provide the U.S. Department of Commerce detailed NdFeB Permanent Magnet industry information that is otherwise not publicly available and needed to effectively conduct this Section 232 investigation.

RESPONSE TO THIS SURVEY IS REQUIRED BY LAW

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 Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C. Sec. 4555).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

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

BURDEN ESTIMATE AND REQUEST FOR COMMENT

Public reporting burden for this collection of information is estimated to average 12 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to BIS Information Collection Officer, Room 6883, Bureau of Industry and Security, U.S. Department of Commerce, Washington, D.C. 20230, and to the Office of Management and Budget, Paperwork Reduction Project (OMB Control No. xxxx-xxxx), Washington, D.C. 20503.

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General Instructions

A.	<p>Your organization is required to complete this survey of the U.S. vanadium industry, which can be downloaded from the BIS website: XXX</p> <p>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.</p> <p>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.</p>
B.	<p>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.</p> <p>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.</p>
C.	<p>Do not disclose any USG classified information in this survey form.</p>
D.	<p>Upon completion of the survey, final review, and certification, transmit the survey document via e-mail to: NdFeB232@bis.doc.gov</p>
E.	<p>Questions related to the survey should be directed to BIS survey support staff at NdFeB232@bis.doc.gov</p> <p>E-mail is the preferred method of contact.</p> <p>You may speak with a member of the BIS survey support staff by calling (202) 482-0194.</p>
F.	<p>For questions related to the overall scope of this Section 232 Investigation, contact NdFeB232@bis.doc.gov or:</p> <p>Jason D. Bolton Program Manager, Industrial Studies BIS/Export Administration/Office of Technology Evaluation 1401 Constitution Avenue, NW, Room 1093 Washington, DC 20230</p> <p>DO NOT submit completed surveys to Mr. Bolton's postal or personal e-mail address. All surveys must be submitted electronically to: NdFeB232@bis.doc.gov</p>

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Definitions	
Term	Definition
Authorizing Official	An executive officer of the organization or business unit or another individual who has the authority to execute this survey on behalf of the organization.
Bonded NdFeB Magnet	A magnet comprised of NdFeB powder bound by a matrix of polymer produced via compression, injection or 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 or 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 tracking 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 insurance 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 products and processes. Efforts that an organization conducts towards innovating, introducing and/or improving products 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, or 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	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.

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1. Organization Information

Provide the following information for your organization. Please select "Other" for "State/Province" if located outside of the U.S.

A.	Organization Name	
	Street Address	
	City	
	State/Province	
	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 part, by any Non-U.S. entity? Indicate Yes/No, then identify the entities below, if applicable. List entities with at least 5% ownership. **Include only direct relationships.**

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

Please provide your organization's CAGE, DUNS, and or NAICS code(s). Blank entries will be considered as "Not Applicable".

C.	Commercial and Government Entity (CAGE) Code(s)	Data Universal Numbering System (DUNS) Code(s)	NAICS (6-digit) Code(s)
	Find CAGE codes at: https://cage.dla.mil/	Find DUNS numbers at: https://www.dnb.com/duns-number/lookup.html	Find NAICS codes at: https://www.census.gov/naics/

Identify the steps in the NdFeB Permanent Magnet supply chain that your organization currently participates in. Please do not include standby/idle, closed, or future facilities in this section.

Activity	Number of U.S. Facilities	Number of Non-U.S. Facilities
Mining of Rare Earth (RE) Minerals		
Processing and Separation of Rare Earth (RE) Carbonates and Oxides		
NdFeB Alloy Production		
Sintering of NdFeB Permanent Magnets		
Bonding of NdFeB Permanent Magnets		
Importer/Reseller/Distributor of NdFeB Permanent Magnets		
Milling, Cutting, and Coating of NdFeB Permanent Magnets		
Integration of NdFeB Permanent Magnets into Assemblies/Systems		
Recycling/Reclamation of Rare Earth Elements (REE) from Waste		
Recycling/Reclamation of NdFeB Permanent Magnets from Waste		
End User of NdFeB Permanent Magnets		
Other (Specify Here)		

Comments:	
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2a. Production Facilities

Identify all of your or organization's production facilities with NdFeB Permanent Magnet related operations including facilities that are on standby/idle and closed. If your organization does not currently operate any NdFeB Permanent Magnet related production facilities, indicate "No" and proceed to part B. Provide the LOCATION (U.S. and Non-U.S.) of the facility, indicate all operations at each facility using the drop-down menus, and specify any changes that may impact that facility over the next five years. If a given facility has more than one operation, list each operation at the facility and the given operation's capacity on separate lines. Note, only list facilities that produce NdFeB Permanent Magnets or related products. Do not list any distribution or resale facilities. Once completed, please proceed to Part B.

Facility Name	Location			Facility Operation			Average Annual Operating Cost (Cost of Goods Sold + Operating Expenses) (\$ Thousands USD)	Unit of Measurement	Facility Capacity			Outlook		
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Facility Operating Status	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 brief 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				Sintered NdFeB Magnet Production			Short Ton (TN)							
5				Bonded NdFeB Magnet Production			Units							
6				Recycling/Reclamation of Rare Earth Elements (REE) from Waste										
7				Recycling/Reclamation of NdFeB Permanent Magnets from Waste										
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Comments:

If your organization plans to operate and/or fund new NdFeB Permanent Magnet or related product production facilities in 2022-2026, please answer the following: What is the operation type for the facility, the initial expected capacity, the final expected capacity, the expected start date, the primary challenge to start (if applicable), the estimated total cost to reach full production, and the previously allocated funds to reach full production. If your organization does not plan to operate or fund new production facilities between 2022-2026, indicate "No" and proceed to the next section. Note, only list facilities that will produce NdFeB Permanent Magnets or related products. Do not list any distribution or resale facilities. Once completed, please proceed to the next section.

Facility Name	Location			Facility Operation			Start Factors				Explain	
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Unit of Measurement	Initial Expected Facility Capacity (Specified Unit)	Full Expected Facility Capacity (Specified Unit)	Expected Start Date	Primary Challenge to Start (If applicable)	Estimated Total Cost to Reach Full Production (\$ Thousands USD)		Previously Allocated Funds to Reach Full Production (\$ Thousands USD)
1				Mining of RE Minerals	Kg				NdFeB Price			
2				Separation and Processing of RE Carbonates and Oxides	Metric Ton (MT)				Loss of Market Share to Imports			
3				NdFeB Alloy Production	Lbs				Loss of Market Share to Domestic Competition			
4				Sintered NdFeB Magnet Production	Short Ton (TN)				Declining Demand			
5				Bonded NdFeB Magnet Production	Units				High Operating Costs			
6				Recycling/Reclamation of Rare Earth Elements (REE) from Waste					COVID-19/Pandemic			
7				Recycling/Reclamation of NdFeB Permanent Magnets from Waste					Other			
8												
9												
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16												
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19												
20												

Comments:

2b. Distribution Facilities

Identify all of your or organization's distribution facilities with NfFEB Permanent Magnet related operations including facilities that are on standby/idle and closed. If your organization does not currently operate any NfFEB Permanent Magnet related distribution facilities, indicate "No" and proceed to part B. Provide the LOCATION (U.S. and Non-U.S.) of the facility, indicate all operations at each facility using the drop down menus, and specify any changes that may impact that facility over the next five years. If a given facility has more than one operation, list each operation at the facility and the given operation's capacity on separate lines. Note, only list facilities that distribute NfFEB Permanent Magnets or related products. Do not list any production facilities. Once completed, please proceed to Part L.

Facility Name	Location			Facility Operation			Average Annual Operating Cost (Cost of Goods Sold + Operating Expenses) (\$ Thousands USD)	Unit of Measurement	Facility Capacity			Outlook		
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Facility Operating Status	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)	Do you anticipate any significant changes in this particular operation the next five years?	If yes or unknown, provide a brief explanation.	
1				Importer/Reseller/Distributor of NfFEB Permanent Magnets	Operating		Kg						Yes	
2				Milling, Cutting, and Coating of NfFEB Permanent Magnets	Standby/Idle		Metric Ton (MT)						No	
3				Integration of NfFEB Permanent Magnets into Assemblies/Systems	Closed		Lbs						Unknown	
4				End User of NfFEB Permanent Magnets			Short Ton (TN)							
5				Other			Units							
6														
7														
8														
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Comments:

If your organization plans to operate and/or fund new NfFEB Permanent Magnet or related product distribution facilities in 2022-2026, please answer the following: What is the operation type for the facility, the initial expected throughput capacity, the final expected throughput capacity, the expected start date, the primary challenge to start (if applicable), the estimated total cost to reach full throughput capacity, and the previously allocated funds to reach full throughput capacity. If your organization does not plan to operate or fund new distribution facilities between 2022-2026, indicate "No" and proceed to the next section. Note, only list facilities that will distribute NfFEB Permanent Magnets or related products. Do not list any production facilities. Once completed, please proceed to the next section.

Facility Name	Location			Facility Operation			Start Factors				Explain	
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Unit of Measurement	Initial Expected Facility Throughput Capacity (Specified Unit)	Full Expected Facility Throughput Capacity (Specified Unit)	Expected Start Date	Primary Challenge to Start (If applicable)	Estimated Total Cost to Reach Full Throughput Capacity (\$ Thousands USD)		Previously Allocated Funds to Reach Full Throughput Capacity (\$ Thousands USD)
1				Importer/Reseller/Distributor of NfFEB Permanent Magnets	Kg				NfFEB Price			
2				Milling, Cutting, and Coating of NfFEB Permanent Magnets	Metric Ton (MT)				Loss of Market Share to Imports			
3				Integration of NfFEB Permanent Magnets into Assemblies/Systems	Lbs				Loss of Market Share to Domestic Competition			
4				End User of NfFEB Permanent Magnets	Short Ton (TN)				Declining Demand			
5				Other	Units				High Operating Costs			
6									COVID-19/Pandemic			
7									Other			
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Comments:

Comments:

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Indicate if your organization produced (or plans to produce) NdFeB Permanent Magnets or related products between 2017-2021 (and 2022-2026 expected) in the United States. If your organization only distributed the following products, indicate "No" and proceed to the next section.												Do not include facilities that solely distribute, import, or export. Only include facilities that produce NdFeB Permanent Magnets and or related products.	
Has your organization produced, is currently producing, and or plans to produce NdFeB Permanent Magnets or related products in the United States? If "No", please proceed to the next section.													
Mining of Rare Earth (RE) Minerals													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production from TREC					Economic Viability (2021 Only)		Estimated Production from TREC				
		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 (TREC) Total Production (U.S. Facilities)													
(% of Rare Earth Elements (REE) contained in TREC)												(% of Rare Earth Elements (REE) contained in TREC)	
1 Dysprosium													
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:													
Recycling/Reclamation of Rare Earth Elements (REE) from Waste Material													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production from Waste Material					Economic Viability (2021 Only)		Estimated Production from Waste Material				
		2017	2018	2019	2020	2021	Average Cost per Unit to Recycle (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026
Primary Waste Material Utilized Total REE Production (U.S. Facilities)													
(% of Rare Earth Elements (REE) contained in Waste Material)												(% of Rare Earth Elements (REE) contained in Waste Material)	
1 Dysprosium													
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:													
Separation and Processing of RE Carbonates and Oxides													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		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 (U.S. Facilities)													
1 Nd Oxide													
2 Dy Oxide													
3 NdPr Oxide													
4 Pr Oxide													
5 Other REE Oxides (Specify Here)													
Comments:													
NdFeB Alloy/Metal Production													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		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 (U.S. Facilities)													
1 Nd Metal													
2 Dy Metal													
3 NdPr Metal													
4 Pr Metal													
5 Other REE Metals (Specify Here)													
Comments:													
Sintered NdFeB Permanent Magnet Production													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		2017	2018	2019	2020	2021	Average Cost per Unit to Produce/Recycle (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026
Total Production (U.S. Facilities)													
1 N25-N30													
2 N31-N35													
3 N35-N40													
4 N41-N45													
5 N46-N50													
6 N51-N55													
7 N25M-N30M													
8 N31M-N35M													
9 N36M-N40M													
10 N41M-N45M													
11 N46M-N50M													
12 N51M-N55M													
13 N25H-N30H													
14 N31H-N35H													
15 N36H-N40H													
16 N41H-N45H													
17 N46H-N50H													
18 N51H-N55H													
19 N25SH-N30SH													
20 N31SH-N35SH													
21 N36SH-N40SH													
22 N41SH-N45SH													
23 N46SH-N50SH													
24 N51SH-N55SH													
25 N25UH-N30UH													
26 N31UH-N35UH													
27 N36UH-N40UH													
28 N41UH-N45UH													
29 N46UH-N50UH													
30 N51UH-N55UH													
31 N25EH-N30EH													
32 N31EH-N35EH													
33 N36EH-N40EH													
34 N41EH-N45EH													
35 N46EH-N50EH													
36 N51EH-N55EH													
37 N25AH-N30AH													
38 N31AH-N35AH													
39 N36AH-N40AH													
40 N41AH-N45AH													
41 N46AH-N50AH													
42 N51AH-N55AH													
43 Other (Specify Here)													
Comments:													
Bonded NdFeB Permanent Magnet Production													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		2017	2018	2019	2020	2021	Average Cost per Unit to Produce/Recycle (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026
Total Production (U.S. Facilities) Mega Gauss Overlaid (MGOe)													
1 1 MGOe													
2 2 MGOe													
3 3 MGOe													
4 4 MGOe													
5 5 MGOe													
6 6 MGOe													
7 7 MGOe													
8 8 MGOe													
9 9 MGOe													
10 10 MGOe													
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21 21 MGOe													
22 22 MGOe													
23 23 MGOe													
24 24 MGOe													
25 Other (Specify Here)													
Comments:													

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Indicate if your organization produced (or plans to produce) NdFeB Permanent Magnets or related products between 2017-2021 (and 2022-2026 expected) outside the United States. If your organization only distributed the following products, indicate "No" and proceed to the next section.												Do not include facilities that solely distribute, import, or export. Only include facilities that produce NdFeB Permanent Magnets and or related products.	
Mining of Rare Earth (RE) Minerals													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production from TREC					Economic Viability (2021 Only)		Estimated Production from TREC				
		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 (TREC) Total Production (Non-U.S. Facilities)													
(% of Rare Earth Elements (REE) contained in TREC)												(% of Rare Earth Elements (REE) contained in TREC)	
1 Dysprosium													
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:													
Recycling/Reclamation of Rare Earth Elements (REE) from Waste Material													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production from Waste Material					Economic Viability (2021 Only)		Estimated Production from Waste Material				
		2017	2018	2019	2020	2021	Average Cost per Unit to Recycle (\$ USD)	Capacity Utilization Needed to Remain Profitable	2022	2023	2024	2025	2026
Primary Waste Material Utilized Total REE Production (Non-U.S. Facilities)													
(% of Rare Earth Elements (REE) contained in Waste Material)												(% of Rare Earth Elements (REE) contained in Waste Material)	
1 Dysprosium													
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:													
Separation and Processing of RE Carbonates and Oxides													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		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)													
1 Nd Oxide													
2 Dy Oxide													
3 NdPr Oxide													
4 Pr Oxide													
5 Other REE Oxides (Specify Here)													
Comments:													
NdFeB Alloy/Metal Production													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		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)													
1 Nd Metal													
2 Dy Metal													
3 NdPr Metal													
4 Pr Metal													
5 Other REE Metals (Specify Here)													
Comments:													
Sintered NdFeB Permanent Magnet Production													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		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)													
1 N25-N30													
2 N31-N35													
3 N35-N40													
4 N41-N45													
5 N46-N50													
6 N51-N55													
7 N25M-N30M													
8 N31M-N35M													
9 N36M-N40M													
10 N41M-N45M													
11 N46M-N50M													
12 N51M-N55M													
13 N25H-N30H													
14 N31H-N35H													
15 N36H-N40H													
16 N41H-N45H													
17 N46H-N50H													
18 N51H-N55H													
19 N25SH-N30SH													
20 N31SH-N35SH													
21 N36SH-N40SH													
22 N41SH-N45SH													
23 N46SH-N50SH													
24 N51SH-N55SH													
25 N25UH-N30UH													
26 N31UH-N35UH													
27 N36UH-N40UH													
28 N41UH-N45UH													
29 N46UH-N50UH													
30 N51UH-N55UH													
31 N25EH-N30EH													
32 N31EH-N35EH													
33 N36EH-N40EH													
34 N41EH-N45EH													
35 N46EH-N50EH													
36 N51EH-N55EH													
37 N25AH-N30AH													
38 N31AH-N35AH													
39 N36AH-N40AH													
40 N41AH-N45AH													
41 N46AH-N50AH													
42 N51AH-N55AH													
43 Other (Specify Here)													
Comments:													
Bonded NdFeB Permanent Magnet Production													
Select "No" if category is not relevant to your operations Unit of Measurement: _____ (Specify Here if Other)													
		Actual Production					Economic Viability (2021 Only)		Estimated Production				
		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) Mega Gauss Oriented (MGOe)													
1 1 MGOe													
2 2 MGOe													
3 3 MGOe													
4 4 MGOe													
5 5 MGOe													
6 6 MGOe													
7 7 MGOe													
8 8 MGOe													
9 9 MGOe													
10 10 MGOe													
11 11 MGOe													
12 12 MGOe													
13 13 MGOe													
14 14 MGOe													
15 15 MGOe													
16 16 MGOe													
17 17 MGOe													
18 18 MGOe													
19 19 MGOe													
20 20 MGOe													
21 21 MGOe													
22 22 MGOe													
23 23 MGOe													
24 24 MGOe													
25 Other (Specify Here)													
Comments:													

Section 104 - Rare Earth Feedstock Purchases																																
Separation and Processing of RE Carbonates and Oxides (Purchases of Total Rare Earth Oxides and Waste Material)																																
Select "Yes" if category is not relevant to your operations																																
List of Measurement																																
Supplier Name	Country of Purchase (Location of Feedstock)	Single/Sole Source?	10-Digit HS/EU Code (if known)	Feedstock Type	Specify Waste Material (if Applicable)	Top Factor Influencing Purchase	REO Content (% of REE contained in REO) or (% of Rare Earth Elements (REE) contained in Waste Material)										Open to Here (if Other)															
							Thorium	Neodymium	Praseodymium	Terbium	Other	2017	2017	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026	
							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 USD)						
1		Single Source		Total Rare Earth Oxides (REO)		Financial Consideration																										
2		Sole Source		Waste Material		Technical Specification																										
3		Neither				Relationship																										
4						Other																										
5																																
6																																
7																																
8																																
9																																
10																																
Comments:																																
Section 105 - REE Alloy/Ingot Production																																
Select "Yes" if category is not relevant to your operations																																
List of Measurement																																
Supplier Name	Country of Purchase (Location of Feedstock)	Type of REE Oxide Feedstock	Specify Other REE Oxides (if Applicable)	Single/Sole Source?	10-Digit HS/EU Code (if known)	Top Factor Influencing Purchase	Open to Here (if Other)																									
							Thorium	Neodymium	Praseodymium	Terbium	Other	2017	2017	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025	2026	2026	
							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 USD)						

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Unit Page

Did your organization purchase High-E Permanent Magnets or High-E Permanent Magnet Blocks between 2017-2021 (and 2022-2024 expected)? If yes, answer the following questions below for each of your organization's suppliers. If no, please proceed to the next section. If your organization has more than twenty-five suppliers, look them by volume of purchases over the 2017-2021 period (optional to track for 2022-2024). List your responses by signed contracts and memorandums of understanding (MOUs). Do not include speculative/forecast purchases. Note: do not include any feedback purchases in this section (i.e. purchases which are self consumed intended for resale as a different product).

4. High-E Permanent Magnet Purchases

Select "No" if category is not relevant to your operations							Stranded High-E Magnet Production																			
List of Measurements							Total				Specify Here if Other															
Supplier Name	Country of Purchase (Location of Product)	Type of Magnet Purchased	Single-Sale Source?	10 Digit HTSLC Code (if known)	Operation Type	Top Factor Influencing Purchase	2017		2018		2019		2020		2021		2022		2023		2024		2025		2026	
							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 USD
1		N2-N20	Single Source		Financial Consideration																					
2		N2-N20	Single Source		Financial Consideration																					
3		N20A-N20A	Supplier		Relationship																					
4		N20A-N20A	Supplier		Relationship																					
5		N20A-N20A	Supplier		Relationship																					
6		N20A-N20A	Supplier		Relationship																					
7		N20A-N20A	Supplier		Relationship																					
8		N20A-N20A	Supplier		Relationship																					
9		N20A-N20A	Supplier		Relationship																					
10		N20A-N20A	Supplier		Relationship																					
11		N20A-N20A	Supplier		Relationship																					
12		N20A-N20A	Supplier		Relationship																					
13		N20A-N20A	Supplier		Relationship																					
14		N20A-N20A	Supplier		Relationship																					
15		N20A-N20A	Supplier		Relationship																					
16		N20A-N20A	Supplier		Relationship																					
17		N20A-N20A	Supplier		Relationship																					
18		N20A-N20A	Supplier		Relationship																					
19		N20A-N20A	Supplier		Relationship																					
20		N20A-N20A	Supplier		Relationship																					
Comments																										

Select "No" if category is not relevant to your operations							Stranded High-E Magnet Production																			
List of Measurements							Total				Specify Here if Other															
Supplier Name	Country of Purchase (Location of Product)	Type of Magnet Purchased	Single-Sale Source?	10 Digit HTSLC Code (if known)	Operation Type	Top Factor Influencing Purchase	2017		2018		2019		2020		2021		2022		2023		2024		2025		2026	
							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 USD
1		1 MAGOW	Single Source		Distribution of High-E																					
2		1 MAGOW	Single Source		Distribution of High-E																					
3		1H MAGOW	Supplier		Relationship																					
4		12H MAGOW	Supplier		Relationship																					
5		12H MAGOW	Supplier		Relationship																					
6		12H MAGOW	Supplier		Relationship																					
7		12H MAGOW	Supplier		Relationship																					
8		12H MAGOW	Supplier		Relationship																					
9		12H MAGOW	Supplier		Relationship																					
10		12H MAGOW	Supplier		Relationship																					
11		12H MAGOW	Supplier		Relationship																					
12		12H MAGOW	Supplier		Relationship																					
13		12H MAGOW	Supplier		Relationship																					
14		12H MAGOW	Supplier		Relationship																					
15		12H MAGOW	Supplier		Relationship																					
16		12H MAGOW	Supplier		Relationship																					
17		12H MAGOW	Supplier		Relationship																					
18		12H MAGOW	Supplier		Relationship																					
19		12H MAGOW	Supplier		Relationship																					
20		12H MAGOW	Supplier		Relationship																					
Comments																										

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6. Employment

Record the total number of full time equivalent (FTE) employees and contractors for the 2017 to 2021 (and expected for 2022-2026) period for your organization employed at the locations listed in sections 2a and 2b. Estimates are acceptable.

A.	FTE Employees & Contractors	Past					Current	Expected			
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026

Record the number of workers by occupation employed at the locations listed in sections 2a and 2b for 2022 only. Estimates are acceptable.

B.	Occupation	Number of Employees
	Engineers, Scientists, R&D	
	Production Line Operations	
	Testing and Quality Control	
	Information Technology/Computing	
	Sales, Administrative, and Management	
	Other (Specify Here)	
	Total:	0

C.	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	
	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:

7. Capital Expenditures											
A. Has your organization conducted NdFeB Permanent Magnet product related capital expenditures (CapEx) from 2017-2021 (and or expects to for 2022-2026)?										If no, proceed to the next section.	
Record your organization's CapEx dollar expenditures and type of CapEx for the 2017-2021 (2022-2026 estimates) period.											
Record \$ in Thousands, e.g. \$12,000.00 = survey input of \$12											
		Past				Current		Future			
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
B. 1 Total CapEx		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Machinery, Equipment, and Vehicles											
3 IT, Computers, Software											
4 Land, Buildings, and Leasehold Improvements											
5 Other (Specify Here)											
6 Other (Specify Here)											
Provide your organization's CapEx 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 CapEx projects that your organization is currently conducting (or plans to conduct by 2026).											
Source of Funding											
Internal/Self-Funded											
DOE-Related (Including CMI & AMES)											
DOE-Related											
Other USG-Related											
State/Local Government											
U.S. Industry											
Non-U.S. Industry											
Non-U.S. Government											
Other (Specify Here)											
		CapEx Project(s) Explain:									
		Total: 0%									
From 2017-2021, did your organization experience any major change(s) in CapEx related to NdFeB Permanent Magnet related products?											
If Yes, identify the reasons for these change(s):											
D. For 2022-2026, does your organization anticipate any major change(s) to CapEx related to NdFeB Permanent Magnet related products?											
If Yes, identify the reasons for these change(s):											
In order to produce NdFeB Permanent Magnets and or related products, are there significant CapEx costs associated with production? If yes, please answer the following below. If no, please proceed to the next section. (Note, only provide CapEx for the step(s) of the process chain that your organization participates in).											
Mining of RE Minerals											
Equipment	Equipment Producer Name	Equipment Producer Country	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)	Comments		
			Single Source		Cyber Security Incident	Designed Input	4 - Little to no impact on production				
			Sole Source		Disease/Quarantine	Developed Captive Capability	3 - Partial impact on production				
			Neither		Equipment Outage	Identified Another Supplier	2 - Significant impact on production				
					Financial Constraint	Stockpiling	1 - Critical to production (cannot produce without)				
					Labor Disruption	Substituted Input					
					Regulatory/Environmental Restrictions	Waited Until Disruption Passed					
					Other	Other					
					None	None					
Recycling/Reclamation of Rare Earth Elements (REE) from Waste Material											
Equipment	Equipment Producer Name	Equipment Producer Country	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)	Comments		
Separation and Processing of RE Carbonates and Oxides											
Equipment	Equipment Producer Name	Equipment Producer Country	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)	Comments		
NdFeB Alloy Production											
Equipment	Equipment Producer Name	Equipment Producer Country	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)	Comments		
Sintered NdFeB Magnet Production											
Equipment	Equipment Producer Name	Equipment Producer Country	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)	Comments		
Bonded NdFeB Magnet Production											
Equipment	Equipment Producer Name	Equipment Producer Country	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)	Comments		
Recycling/Reclamation of NdFeB Permanent Magnets from Waste											
Equipment	Equipment Producer Name	Equipment Producer Country	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)	Comments		
Comments:											

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8. Research & Development/Intellectual Property

A. Has your organization conducted NdFeB Permanent Magnet product related research and development (R&D) from 2017-2021 (and or expects to for 2022-2026)? If no, proceed to part D below.

Record your organization's R&D dollar expenditures and type of R&D expenditure for the 2017-2021 (2022-2026 estimates) period.

		Record \$ in Thousands, e.g. \$12,000.00 = survey input of \$12									
		Past					Current	Future			
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
B.	1	Total R&D Expenditures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2	Basic Research									
	3	Applied Research									
	4	Product/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):

C. 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		R&D Project(s) Explain:
Internal/Self-Funded		
DOE-Related (Including CMI & AMES)		
DOD-Related		
Other USG-Related		
State/Local Government		
U.S. Industry		
Non-U.S. Industry		
Non-U.S. Government		
Other (Specify Here)		
Total:	0%	

D. 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 (can include anticipated acquisition dates).

IP Number	Name of IP Owner	Country of IP Owner	Date of Acquisition	Cost of Acquisition (\$ Thousands USD)	Comments

E. Has your organization encountered difficulties in obtaining NdFeB Permanent Magnet related IP? If yes, please explain below.

Comments:

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9. National Defense/Critical Infrastructure			
A.	Since 2017, has your organization directly or indirectly supplied 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 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. Definitions of each sector may be found at: https://www.cisa.gov/critical-infrastructure-sectors			
	Critical Infrastructure Sector	(2017-2021)	(2022-2026)
	Chemical Sector		
	Commercial Facilities Sector		
	Communications Sector		
	Critical Manufacturing Sector		
	Dams Sector		
B.	Defense Industrial Base Sector		
	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		
C.	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.		
D.	How have current market conditions involving the subject product categories affected your ability to meet current U.S. Defense requirements? Please explain below. If no, proceed to part E.		
E.	How is your organization ensuring that its sales are compliant with DFARS 225.7018, 10 U.S.C. 2533c, 'The John S. McCain National Defense Authorization Act - NDAA 2019'? Indicate when your organization began this effort (or plans to) and please explain below. Definition/Terms may be found at: https://www.federalregister.gov/documents/2019/04/30/2019-08485/defense-federal-acquisition-regulation-supplement-restriction-on-the-acquisition-of-certain-magnets		
	Comments:		
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act			

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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 comments or any other information you wish to include regarding this survey assessment.

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How many hours did it take to complete this survey?	
-----------------------------------------------------	--

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