

**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. Neodymium-Iron-Boron (NdFeB) Permanent Magnet industry. The survey results will be used to support an ongoing investigation on the effect of imports of 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 Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C. Sec. 4555).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. 0694-0120), Washington, D.C. 20503.

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

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**General Instructions**

A.	<p>Your organization is required to complete this survey of the U.S. NdFeB Permanent Magnet industry, which can be downloaded from the BIS website: <a href="https://www.bis.doc.gov/ndfeb-232">https://www.bis.doc.gov/ndfeb-232</a></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. <b>DO NOT SUBMIT</b> the PDF version of the survey as your response to BIS. Should this occur, your organization will be required to resubmit the survey in the requested Excel format.</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><b>DO NOT CUT AND PASTE RESPONSES WITHIN THIS SURVEY OR PASTE IN RESPONSES FROM OUTSIDE THE SURVEY.</b> Survey inputs should be completed by typing in responses or by using a drop-down menu. The use of cut and paste can corrupt the survey template. If your survey response is corrupted as a result of cut and paste response, your survey will be rejected and your organization must immediately resubmit the survey.</p>
C.	<p><b>Do not disclose any U.S. Government (USG) classified information in this survey form.</b></p>
D.	<p>Upon completion of the survey, final review, and certification, <b>transmit the survey document via e-mail to:</b> <a href="mailto:NdFeB232@bis.doc.gov">NdFeB232@bis.doc.gov</a></p>
E.	<p>Questions related to the survey should be directed to BIS survey support staff at <a href="mailto:NdFeB232@bis.doc.gov">NdFeB232@bis.doc.gov</a></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 <a href="mailto:NdFeB232@bis.doc.gov">NdFeB232@bis.doc.gov</a> 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><b>DO NOT</b> submit completed surveys to Mr. Bolton's postal or personal e-mail address. All surveys must be submitted electronically to: <a href="mailto:NdFeB232@bis.doc.gov">NdFeB232@bis.doc.gov</a></p>

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

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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.
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.
Feedstock	A raw material used to supply a machine or industrial process. In the context of NdFeB Permanent Magnet production, feedstock refers to the raw materials utilized in both sintered and bonded NdFeB Permanent Magnet production.
Finisher	Finishing in the context of NdFeB Permanent Magnet production refers to the milling, cutting, and coating of magnet blocks or other related products.
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 and or bonded 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 product.
NdFeB Permanent Magnet Related Products	Any products directly or indirectly used in the production of NdFeB Permanent Magnets, including REE mining, carbonates, oxides, metals, and/or alloys.
NdFeB Powder	The NdFeB precursor material from which sintered and or bonded magnets may be produced.
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.
Pilot Production	A new line of production established to determine whether new processes/products used to manufacture NdFeB Permanent Magnets or related products will be economically efficient and profitable.
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 scandium and yttrium. For the purposes of this collection, the primary focus is REEs used in NdFeB permanent magnet manufacturing.
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) if applicable. 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:		Find DUNS numbers at:		Find NAICS codes at:	
	<a href="https://cage.dla.mil/">https://cage.dla.mil/</a>		<a href="https://www.dnb.com/duns-">https://www.dnb.com/duns-</a>		<a href="https://www.census.gov/naics/">https://www.census.gov/naics/</a>	

Identify the activities in the NdFeB Permanent Magnet supply chain that your organization currently performs. **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 and Concentration of Rare Earth (RE) Minerals		
Processing of Rare Earth (RE) Minerals into Carbonates		
Separation of Rare Earth (RE) Carbonates into Oxides		
NdFeB Metal Production		
NdFeB Alloy Production		
Sintered NdFeB Permanent Magnet Production		
Bonded NdFeB Permanent Magnet Production		
Importer/Reseller/Distributor of NdFeB Permanent Magnets		
Finishing/Fabrication of NdFeB Permanent Magnets (e.g. Milling, Cutting, and Coating)		
Integration of NdFeB Permanent Magnets into Assemblies/Systems		
Recycling/Reclamation of Rare Earth Elements (REE) from Waste or Non-Traditional Feedstocks		
Recycling/Reclamation of NdFeB Permanent Magnets from Waste or Non-Traditional Feedstocks		
End User of NdFeB Permanent Magnets		
Other (Specify Here)		

Comments:

Division Form												
2A. Production Facilities												
Identify all of your 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, value-add/finishing, or resale facilities. Once completed, please proceed to Part B.											Yes	
Facility Name	Location			Facility Operation			Facility Capacity				Outlook	
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Facility Operating Status	Average Annual Operating Cost (Cost of Goods Sold + Operating Expenses) (\$ Thousands USD)	Total Facility Capacity (Metric Tons (MT))	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 in the next five years?	If yes or unknown, provide a brief explanation.
1				Mining and Concentration of Rare Earth (RE) Minerals	Operating						Yes	
2				Processing of Rare Earth (RE) Minerals into Carbonates	Standby/Idle						No	
3				Separation of Rare Earth (RE) Carbonates into Oxides	Closed						Unknown	
4				NdFeB Metal Production								
5				NdFeB Alloy Production								
6				Sintered NdFeB Permanent Magnet Production								
7				Bonded NdFeB Permanent Magnet Production								
8				Recycling/Reclamation of Rare Earth Elements (REE) from Waste or Non-Traditional Feedstocks								
9				Recycling/Reclamation of NdFeB Permanent Magnets from Waste or Non-Traditional Feedstocks								
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Comments:												
If your organization plans to operate and/or fund new NdFeB Permanent Magnet and/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 (e.g. the amount previously spent on upgrading equipment, purchasing land/capital/labor, etc. 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, value-add/finishing, or resale facilities. Once completed, please proceed to the next section.											Yes	
Facility Name	Location			Facility Operation			Start Factors				Explain	
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Initial Non-Pilot Expected Facility Capacity (Metric Tons (MT))	Full Non-Pilot Expected Facility Capacity (Metric Tons (MT))	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 and Concentration of Rare Earth (RE) Minerals				NdFeB Price				
2				Processing of Rare Earth (RE) Minerals into Carbonates				High Investment Costs				
3				Separation of Rare Earth (RE) Carbonates into Oxides				Lack of Skilled Labor				
4				NdFeB Metal Production				Lack of or Declining Domestic Demand				
5				NdFeB Alloy Production				High Operating Costs				
6				Sintered NdFeB Permanent Magnet Production				COVID-19 Pandemic				
7				Bonded NdFeB Permanent Magnet Production				Other				
8				Recycling/Reclamation of Rare Earth Elements (REE) from Waste or Non-Traditional Feedstocks								
9				Recycling/Reclamation of NdFeB Permanent Magnets from Waste or Non-Traditional Feedstocks								
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2b. Distribution and Finishing Facilities																			
Identify all of your organization's distribution and finishing facilities with NdFeB Permanent Magnet related operations including facilities that are on standby/idle and closed. If your organization is an end-user of NdFeB Permanent Magnets, please indicate "No" and proceed to the next section. If your organization does not currently operate any NdFeB Permanent Magnet related distribution or finishing 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 and or finish NdFeB Permanent Magnets or related products. Do not list any production facilities. Once completed, please proceed to Part B.																		Yes	
Facility Name	Location			Facility Operation			Facility Capacity			Outlook									
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Facility Operating Status	Average Annual Operating Cost (Cost of Goods Sold + Operating Expenses) (\$ Thousands USD)	Total Facility Capacity (Metric Tons (MT))	Average Capacity Utilization Rate (Last Full Year of Operation)	Do you anticipate any significant changes in this particular operation in the next five years?	If yes or unknown, provide a brief explanation.									
1				Importer/Reseller/Distributor of NdFeB Permanent Magnets	Operating				Yes										
2				Finishing/Fabrication of NdFeB Permanent Magnets (e.g. Milling, Cutting, and Coating)	Standby/Idle				No										
3				Integration of NdFeB Permanent Magnets into Assemblies/Systems	Closed				Unknown										
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Comments:																			
If your organization plans to operate and or fund new NdFeB Permanent Magnet or related product distribution and finishing facilities in 2022-2026, please answer the following: What is the operation type for the facility, the initial expected non-pilot capacity, the final expected non-pilot capacity, the expected start date, and the primary challenge to start (if applicable). 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 and or finish NdFeB Permanent Magnets or related products. Do not list any production facilities. Once completed, please proceed to the next section.																		Yes	
Facility Name	Location			Facility Operation			Start Factors			Explain									
	City	State/Province (Select "Other" if outside the U.S.)	Country	Operation Type	Initial Non-Pilot Expected Facility Capacity (Metric Tons (MT))	Full Non-Pilot Expected Facility Capacity (Metric Tons (MT))	Expected Start Date	Primary Challenge to Start (if applicable)											
1				Importer/Reseller/Distributor of NdFeB Permanent Magnets				NdFeB Price											
2				Finishing/Fabrication of NdFeB Permanent Magnets (e.g. Milling, Cutting, and Coating)				High Investment Costs											
3				Integration of NdFeB Permanent Magnets into Assemblies/Systems				Lack of Skilled Labor											
4								Lack of or Declining Domestic Demand											
5								High Operating Costs											
6								COVID-19 Pandemic											
7								Other											
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3a. U.S. Production

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 and/or finished the following products, indicate "No" and proceed to the next section.

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. Yes Do not include facilities that solely distribute, import, export, and/or finish NdFeB Permanent Magnets. Only include facilities that produce NdFeB Permanent Magnets and/or related products.

Mining and Concentration of Rare Earth (RE) Minerals

Table A: Mining and Concentration of Rare Earth (RE) Minerals. Includes columns for Unit of Measurement, Actual Production of TREO (2017-2021), Economic Viability (2021 Only), and Estimated Production of TREO (2022-2026). Rows include Total Rare Earth Oxides (TREO) and various REE elements like Neodymium, Dysprosium, etc.

Recycling/Reclamation of Rare Earth Elements (REE) from Waste Material/Non-Traditional Feedstocks

Table B: Recycling/Reclamation of Rare Earth Elements (REE) from Waste Material/Non-Traditional Feedstocks. Similar structure to Table A, but for waste material/feedstock utilization.

Processing of Rare Earth (RE) Minerals into Carbonates

Table C: Processing of Rare Earth (RE) Minerals into Carbonates. Similar structure to Table A, but for carbonate production.

Separation of Rare Earth (RE) Carbonates into Oxides

Table D: Separation of Rare Earth (RE) Carbonates into Oxides. Similar structure to Table A, but for oxide production.

NdFeB Metal Production

Table E: NdFeB Metal Production. Similar structure to Table A, but for metal production.

NdFeB Alloy Production

Table F: NdFeB Alloy Production. Similar structure to Table A, but for alloy production.

NdFeB Permanent Magnet Production

Table G: NdFeB Permanent Magnet Production. Similar structure to Table A, but for permanent magnet production.



3b. Non-U.S. Production

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 and/or finished the following products, indicate "No" and proceed to the next section.

Has your organization produced, is currently producing, and/or plans to produce NdFeB Permanent Magnets or related products outside the United States? If "No", please proceed to the next section. Yes Do not include facilities that solely distribute, import, export, and/or finish NdFeB Permanent Magnets. Only include facilities that produce NdFeB Permanent Magnets and/or related products.

Table A: Mining and Concentration of Rare Earth (RE) Minerals. Includes columns for Actual Production of TREO (2017-2021), Economic Viability (2021 Only), and Estimated Production of TREO (2022-2026). Rows include Total Rare Earth Oxides (TREO) and individual REEs like Neodymium, Dysprosium, etc.

Table B: Recycling/Reclamation of Rare Earth Elements (REE) from Waste Material/Non-Traditional Feedstocks. Similar structure to Table A, but for waste material/feedstock production.

Table C: Processing of Rare Earth (RE) Minerals into Carbonates. Similar structure to Table A, but for carbonate production.

Table D: Separation of Rare Earth (RE) Carbonates into Oxides. Similar structure to Table A, but for oxide production.

Table E: NdFeB Metal Production. Similar structure to Table A, but for metal production.

Table F: NdFeB Alloy Production. Similar structure to Table A, but for alloy production.

Table G: NdFeB Permanent Magnet Production. Similar structure to Table A, but for permanent magnet production.







**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. **Note, if your organization was instructed to respond "No" to both 2a and 2b, please input "End-User" in the comment box at the bottom of the page and proceed to the next section.**

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 2021 only. Estimates are acceptable.

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

C.	Issue	Timeframe	Primary Occupation Affected	Explain
	Attracting Workers to Location	Ongoing, Expected to Continue	Manufacturing 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 shut down a facility, do you reasonably anticipate being able to hire or rehire workers? Explain:

Comments:

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7. Capital Expenditures																																					
Has your organization (including Netfili Permanent Magnet related) reduced capital expenditures (CapEx) from 2021-2023 (and/or expects to for 2024-2026)?											Yes	No, please to the next section																									
Report your organization's CapEx dollar expenditures and type of CapEx for the 2021-2023 (and/or expects to for 2024-2026)																																					
Report in Thousands, e.g. \$12,000.00 - rounded up to 10																																					
A	Type of CapEx	2021			2022			2023			2024																										
		2021	2022	2023	2021	2022	2023	2024	2025	2026																											
1	Build Costs	92	92	92	92	92	92	92	92	92	92	92																									
2	Production Equipment and Vehicles																																				
3	IT Computers, Software																																				
4	Long, Medium, and Short-Term Investments																																				
5	Other																																				
6	Total																																				
Provide your organization's CapEx funding sources for 2021-2023. (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).																																					
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In order to produce Netfili Permanent Magnets and/or related products, are there significant CapEx costs associated with production? If so, please answer the following below. If no, please proceed to the next section. (Note, only provide CapEx for the study of the process when that your organization participates in.)																																					
Identify and Categorization of New CapEx Initiatives																																					
Equipment	Equipment Producer Name	Equipment Producer Country	Single/Other Source	Average lead time to acquire (in days)	Difficulties to Acquire (If Applicable)	Primary Reason(s) (If Applicable)	Criticality	Average cost to acquire (\$ Thousands USD)	Comments																												
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8. Research & Development/Intellectual Property

A. Has your organization conducted NdFeB Permanent Magnet related research and development (R&D) from 2017-2021 (and or expects to for 2022-2026)? Yes 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. Estimates are acceptable. Record \$ in Thousands, e.g. \$12,000.00 = survey input of \$12

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).

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 issued 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).

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

Comments:

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.	Yes																																																			
	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.	Yes																																																			
B.	<p>For 2017-2021, rank the top three critical infrastructure sectors your organization directly or indirectly supplies with NdFeB Permanent Magnets and or related products. Please do the same for 2022-2026. Once complete, proceed to Part C.</p> <p>Definitions of each sector may be found at: <a href="https://www.cisa.gov/critical-infrastructure-sectors">https://www.cisa.gov/critical-infrastructure-sectors</a></p> <table border="1"> <thead> <tr> <th data-bbox="205 297 535 318">Critical Infrastructure Sector</th> <th data-bbox="535 297 644 318">(2017-2021)</th> <th data-bbox="644 297 852 318">(2022-2026)</th> </tr> </thead> <tbody> <tr><td data-bbox="205 318 535 337">Chemical Sector</td><td data-bbox="535 318 644 337"></td><td data-bbox="644 318 852 337"></td></tr> <tr><td data-bbox="205 337 535 357">Commercial Facilities Sector</td><td data-bbox="535 337 644 357"></td><td data-bbox="644 337 852 357"></td></tr> <tr><td data-bbox="205 357 535 376">Communications Sector</td><td data-bbox="535 357 644 376"></td><td data-bbox="644 357 852 376"></td></tr> <tr><td data-bbox="205 376 535 396">Critical Manufacturing Sector</td><td data-bbox="535 376 644 396"></td><td data-bbox="644 376 852 396"></td></tr> <tr><td data-bbox="205 396 535 415">Dams Sector</td><td data-bbox="535 396 644 415"></td><td data-bbox="644 396 852 415"></td></tr> <tr><td data-bbox="205 415 535 435">Defense Industrial Base Sector</td><td data-bbox="535 415 644 435"></td><td data-bbox="644 415 852 435"></td></tr> <tr><td data-bbox="205 435 535 454">Emergency Services Sector</td><td data-bbox="535 435 644 454"></td><td data-bbox="644 435 852 454"></td></tr> <tr><td data-bbox="205 454 535 474">Energy Sector</td><td data-bbox="535 454 644 474"></td><td data-bbox="644 454 852 474"></td></tr> <tr><td data-bbox="205 474 535 493">Financial Services Sector</td><td data-bbox="535 474 644 493"></td><td data-bbox="644 474 852 493"></td></tr> <tr><td data-bbox="205 493 535 513">Food and Agriculture Sector</td><td data-bbox="535 493 644 513"></td><td data-bbox="644 493 852 513"></td></tr> <tr><td data-bbox="205 513 535 532">Government and Facilities Sector</td><td data-bbox="535 513 644 532"></td><td data-bbox="644 513 852 532"></td></tr> <tr><td data-bbox="205 532 535 552">Healthcare and Public Health Sector</td><td data-bbox="535 532 644 552"></td><td data-bbox="644 532 852 552"></td></tr> <tr><td data-bbox="205 552 535 571">Information Technology Sector</td><td data-bbox="535 552 644 571"></td><td data-bbox="644 552 852 571"></td></tr> <tr><td data-bbox="205 571 535 591">Nuclear Reactors, Materials, and Waste Sector</td><td data-bbox="535 571 644 591"></td><td data-bbox="644 571 852 591"></td></tr> <tr><td data-bbox="205 591 535 610">Transportation Systems Sector</td><td data-bbox="535 591 644 610"></td><td data-bbox="644 591 852 610"></td></tr> <tr><td data-bbox="205 610 535 623">Waste and Wastewater Systems Sector</td><td data-bbox="535 610 644 623"></td><td data-bbox="644 610 852 623"></td></tr> </tbody> </table>		Critical Infrastructure Sector	(2017-2021)	(2022-2026)	Chemical Sector			Commercial Facilities Sector			Communications Sector			Critical Manufacturing Sector			Dams Sector			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		
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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 not applicable, proceed to part D.	Yes																																																			
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 not applicable, proceed to part E.	Yes																																																			
E.	<p>Is your organization ensuring that its sales are compliant with DFARS 225.7018, 10 U.S.C. 2533c? Indicate when your organization began this effort (or plans to) and please explain below.</p> <p>Definition/Terms may be found at: <a href="https://www.federalregister.gov/documents/2019/04/30/2019-08485/defense-federal-acquisition-regulation-supplement-restriction-on-the-acquisition-of-certain-magnets">https://www.federalregister.gov/documents/2019/04/30/2019-08485/defense-federal-acquisition-regulation-supplement-restriction-on-the-acquisition-of-certain-magnets</a></p>																																																				
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BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act																																																					



10. Competition/Challenges

Does your organization struggle to compete against imports and or exporting abroad? Do you expect the same/similar conditions to persist in the future?						
Are any of the input conditions below hindering your organization's ability to compete on price?						
Input Condition	Percentage of total operating costs (Estimates Acceptable)	Would changing current government regulations/incentives significantly improve your organization's ability to compete on price?	If Yes, specify the regulation/incentive below	Explain		
Electricity		Yes				
Environmental Regulations		No				
Export Licensing/Regulations		Not Applicable				
Labor						
Sourcing Feedstock Material						
Taxes						
Transportation Costs						
VAT Taxes, Tariffs, and other Trade Duties						
Other (Specify Here)						
<b>Total:</b>		<b>0%</b>				
What single change (and to which portion of the NdFeB Permanent Magnet supply chain) would most significantly improve cost competitiveness by 2026? Please explain to the right.						
Comments:						
Does your organization currently participate in any cooperative production, sourcing, information sharing, and or other agreements with other firms/governments both inside and outside of the United States? Do you intend to participate in the future/continue participation? If yes, answer the following questions below. If no, please proceed to Part C.					Current Participation	
Country	Partner Organization Name	Anticipated/Past Start Date (If Applicable)	Anticipated/Past End Date (If Applicable)	Explain		
Comments:						
Is your organization looking to expand its operations domestically (or internationally) between 2022-2026? If yes, answer the following questions below. If no, please proceed to part D. Note, <b>limit market share responses to only activities that your organization performs (i.e. do not provide responses on the market as a whole or in general).</b>					Yes	
Country	Current market share (Estimates acceptable)	Anticipated change in market share 2022-2026	Primary challenge to increasing market share (If Applicable)	Explain		
		Increase	Domestic Competition			
		Decrease	Environmental regulations/remediation			
		No Change	Export controls/ITAR & EAR			
		Unknown	Financing/credit availability			
			Foreign Competition			
			Input availability			
			Labor availability/costs			
			Quality of inputs			
			Taxes			
			Trade disputes/tariffs			
Comments:						
Identify the primary challenges/issues affecting your competitive position in the overall [U.S. and non-U.S.] subject product markets. Rank the leading 5 most significant challenges (1 being the most important issue/impact; 2 being the next most important issue/impact, etc.). Explain your response.						
Challenge/Issue	Challenge Experienced?	Rank Top 5	Explain			
1 Aging equipment, facilities, or infrastructure	Yes					
2 Aging workforce	No					
3 Counterfeit parts						
4 Cyber security						
5 Domestic competition						
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						
14 Industrial espionage - domestic						
15 Industrial espionage - foreign						
16 Input availability						
17 Intellectual property/patent infringement						
18 Labor availability/costs						
19 Natural disasters (including disease/quarantine)						
20 Obsolescence						
21 Pension costs						
22 Proximity to customers						
23 Proximity to suppliers						
24 Qualifications/certifications						
25 Quality of inputs						
26 R&D costs						
27 Reduction in USG demand						
28 Taxes						
29 Trade disputes/tariffs						
30 Worker/skills retention						
31 Other (specify)						
32 Other (specify)						
Comments:						

[Previous Page](#)

### 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](mailto:NdFeB232@bis.doc.gov). Be sure to retain your survey for your records and to facilitate any necessary edits or clarifications.

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

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

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How many hours did it take to complete this survey?	
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