

Title 3—

Executive Order 13817 of December 20, 2017

The President

**A Federal Strategy To Ensure Secure and Reliable Supplies of Critical Minerals**

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

**Section 1. Findings.** The United States is heavily reliant on imports of certain mineral commodities that are vital to the Nation's security and economic prosperity. This dependency of the United States on foreign sources creates a strategic vulnerability for both its economy and military to adverse foreign government action, natural disaster, and other events that can disrupt supply of these key minerals. Despite the presence of significant deposits of some of these minerals across the United States, our miners and producers are currently limited by a lack of comprehensive, machine-readable data concerning topographical, geological, and geophysical surveys; permitting delays; and the potential for protracted litigation regarding permits that are issued. An increase in private-sector domestic exploration, production, recycling, and reprocessing of critical minerals, and support for efforts to identify more commonly available technological alternatives to these minerals, will reduce our dependence on imports, preserve our leadership in technological innovation, support job creation, improve our national security and balance of trade, and enhance the technological superiority and readiness of our Armed Forces, which are among the Nation's most significant consumers of critical minerals.

**Sec. 2. Definition.** (a) A "critical mineral" is a mineral identified by the Secretary of the Interior pursuant to subsection (b) of this section to be (i) a non-fuel mineral or mineral material essential to the economic and national security of the United States, (ii) the supply chain of which is vulnerable to disruption, and (iii) that serves an essential function in the manufacturing of a product, the absence of which would have significant consequences for our economy or our national security.

(b) The Secretary of the Interior, in coordination with the Secretary of Defense and in consultation with the heads of other relevant executive departments and agencies (agencies), shall publish a list of critical minerals in the *Federal Register* not later than 60 days after the date of this order, and disseminate such list to the appropriate agencies.

**Sec. 3. Policy.** It shall be the policy of the Federal Government to reduce the Nation's vulnerability to disruptions in the supply of critical minerals, which constitutes a strategic vulnerability for the security and prosperity of the United States. The United States will further this policy for the benefit of the American people and in a safe and environmentally responsible manner, by:

(a) identifying new sources of critical minerals;

(b) increasing activity at all levels of the supply chain, including exploration, mining, concentration, separation, alloying, recycling, and reprocessing critical minerals;

(c) ensuring that our miners and producers have electronic access to the most advanced topographic, geologic, and geophysical data within U.S. territory to the extent permitted by law and subject to appropriate limitations for purposes of privacy and security, including appropriate limitations to protect critical infrastructure data such as those related to national security areas; and

(d) streamlining leasing and permitting processes to expedite exploration, production, processing, reprocessing, recycling, and domestic refining of critical minerals.

**Sec. 4. Implementation.** (a) Within 180 days of the date that the Secretary of the Interior publishes a list of critical minerals under section 2 of this order, the Secretary of Commerce, in coordination with the Secretaries of Defense, the Interior, Agriculture, and Energy, and the United States Trade Representative, shall submit a report to the President through the Assistant to the President for Economic Policy, the Assistant to the President for National Security Affairs, the Director of the Office of Management and Budget, and the Director of the Office of Science and Technology Policy. The report shall include:

- (i) a strategy to reduce the Nation's reliance on critical minerals;
- (ii) an assessment of progress toward developing critical minerals recycling and reprocessing technologies, and technological alternatives to critical minerals;
- (iii) options for accessing and developing critical minerals through investment and trade with our allies and partners;
- (iv) a plan to improve the topographic, geologic, and geophysical mapping of the United States and make the resulting data and metadata electronically accessible, to the extent permitted by law and subject to appropriate limitations for purposes of privacy and security, to support private sector mineral exploration of critical minerals; and
- (v) recommendations to streamline permitting and review processes related to developing leases; enhancing access to critical mineral resources; and increasing discovery, production, and domestic refining of critical minerals.

(b) Agencies shall implement subsection (a) of this section in a manner consistent with, and when possible complementary to, implementation of Executive Order 13771 of January 30, 2017 (Reducing Regulation and Controlling Regulatory Costs), Executive Order 13783 of March 28, 2017 (Promoting Energy Independence and Economic Growth), Executive Order 13807 of August 15, 2017 (Establishing Discipline and Accountability in the Environmental Review and Permitting Process for Infrastructure Projects), and Executive Order 12866 of September 30, 1993 (Regulatory Planning and Review).

**Sec. 5. General Provisions.** (a) Nothing in this order shall be construed to impair or otherwise affect:

- (i) the authority granted by law to an executive department or agency, or the head thereof;
- (ii) the functions of the Director of the Office of Management and Budget relating to budgetary, administrative, or legislative proposals; or
- (iii) existing treaties or international agreements relating to mineral production, imports, or exports.

(b) This order shall be implemented consistent with applicable law and subject to the availability of appropriations.

(c) This order is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person.

A handwritten signature in black ink, appearing to be the signature of Donald Trump, located in the upper right quadrant of the page.

THE WHITE HOUSE,  
*December 20, 2017.*

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# Presidential Documents

## Title 3—

## Executive Order 13953 of September 30, 2020

## The President

## Addressing the Threat to the Domestic Supply Chain From Reliance on Critical Minerals From Foreign Adversaries and Supporting the Domestic Mining and Processing Industries

By the authority vested in me as President by the Constitution and the laws of the United States of America, including the International Emergency Economic Powers Act (50 U.S.C. 1701 *et seq.*) (IEEPA), the National Emergencies Act (50 U.S.C. 1601 *et seq.*) (NEA), and section 301 of title 3, United States Code,

I, DONALD J. TRUMP, President of the United States of America, find that a strong America cannot be dependent on imports from foreign adversaries for the critical minerals that are increasingly necessary to maintain our economic and military strength in the 21st century. Because of the national importance of reliable access to critical minerals, I signed Executive Order 13817 of December 20, 2017 (A Federal Strategy To Ensure Secure and Reliable Supplies of Critical Minerals), which required the Secretary of the Interior to identify critical minerals and made it the policy of the Federal Government “to reduce the Nation’s vulnerability to disruptions in the supply of critical minerals.” Pursuant to my order, the Secretary of the Interior conducted a review with the assistance of other executive departments and agencies (agencies) that identified 35 minerals that (1) are “essential to the economic and national security of the United States,” (2) have supply chains that are “vulnerable to disruption,” and (3) serve “an essential function in the manufacturing of a product, the absence of which would have significant consequences for our economy or our national security.”

These critical minerals are necessary inputs for the products our military, national infrastructure, and economy depend on the most. Our country needs critical minerals to make airplanes, computers, cell phones, electricity generation and transmission systems, and advanced electronics. Though these minerals are indispensable to our country, we presently lack the capacity to produce them in processed form in the quantities we need. American producers depend on foreign countries to supply and process them. For 31 of the 35 critical minerals, the United States imports more than half of its annual consumption. The United States has no domestic production for 14 of the critical minerals and is completely dependent on imports to supply its demand. Whereas the United States recognizes the continued importance of cooperation on supply chain issues with international partners and allies, in many cases, the aggressive economic practices of certain non-market foreign producers of critical minerals have destroyed vital mining and manufacturing jobs in the United States.

Our dependence on one country, the People’s Republic of China (China), for multiple critical minerals is particularly concerning. The United States now imports 80 percent of its rare earth elements directly from China, with portions of the remainder indirectly sourced from China through other countries. In the 1980s, the United States produced more of these elements than any other country in the world, but China used aggressive economic practices to strategically flood the global market for rare earth elements and displace its competitors. Since gaining this advantage, China has exploited its position in the rare earth elements market by coercing industries that rely on these elements to locate their facilities, intellectual property,

and technology in China. For instance, multiple companies were forced to add factory capacity in China after it suspended exports of processed rare earth elements to Japan in 2010, threatening that country's industrial and defense sectors and disrupting rare earth elements prices worldwide.

The United States also disproportionately depends on foreign sources for barite. The United States imports over 75 percent of the barite it consumes, and over 50 percent of its barite imports come from China. Barite is of critical importance to the hydraulic fracturing ("fracking") industry, which is vital to the energy independence of the United States. The United States depends on foreign sources for 100 percent of its gallium, with China producing around 95 percent of the global supply. Gallium-based semiconductors are indispensable for cellphones, blue and violet light-emitting diodes (LEDs), diode lasers, and fifth-generation (5G) telecommunications. Like for gallium, the United States is 100 percent reliant on imports for graphite, which is used to make advanced batteries for cellphones, laptops, and hybrid and electric cars. China produces over 60 percent of the world's graphite and almost all of the world's production of high-purity graphite needed for rechargeable batteries.

For these and other critical minerals identified by the Secretary of the Interior, we must reduce our vulnerability to adverse foreign government action, natural disaster, or other supply disruptions. Our national security, foreign policy, and economy require a consistent supply of each of these minerals.

I therefore determine that our Nation's undue reliance on critical minerals, in processed or unprocessed form, from foreign adversaries constitutes an unusual and extraordinary threat, which has its source in substantial part outside the United States, to the national security, foreign policy, and economy of the United States. I hereby declare a national emergency to deal with that threat.

In addition, I find that the United States must broadly enhance its mining and processing capacity, including for minerals not identified as critical minerals and not included within the national emergency declared in this order. By expanding and strengthening domestic mining and processing capacity today, we guard against the possibility of supply chain disruptions and future attempts by our adversaries or strategic competitors to harm our economy and military readiness. Moreover, additional domestic capacity will reduce United States and global dependence on minerals produced in countries that do not endorse and pursue appropriate minerals supply chain standards, leading to human rights violations, forced and child labor, violent conflict, and health and environmental damage. Finally, a stronger domestic mining and processing industry fosters a healthier and faster-growing economy for the United States. Mining and mineral processing provide jobs to hundreds of thousands of Americans whose daily work allows our country and the world to "Buy American" for critical technology.

I hereby determine and order:

**Section 1.** (a) To address the national emergency declared by this order, and pursuant to subsection 203(a)(1)(B) of IEEPA (50 U.S.C. 1702(a)(1)(B)), the Secretary of the Interior, in consultation with the Secretary of the Treasury, the Secretary of Defense, the Secretary of Commerce, and the heads of other agencies, as appropriate, shall investigate our Nation's undue reliance on critical minerals, in processed or unprocessed form, from foreign adversaries. The Secretary of the Interior shall submit a report to the President, through the Assistant to the President for National Security Affairs, the Assistant to the President for Economic Policy, and the Assistant to the President for Trade and Manufacturing Policy, within 60 days of the date of this order. That report shall summarize any conclusions from this investigation and recommend executive action, which may include the imposition of tariffs or quotas, other import restrictions against China and other non-market foreign adversaries whose economic practices threaten to undermine

the health, growth, and resiliency of the United States, or other appropriate action, consistent with applicable law.

(b) By January 1, 2021, and every 180 days thereafter, the Secretary of the Interior, in consultation with the heads of other agencies, as appropriate, shall inform the President of the state of the threat posed by our Nation's reliance on critical minerals, in processed or unprocessed form, from foreign adversaries and recommend any additional actions necessary to address that threat.

(c) The Secretary of the Interior, in consultation with the heads of other agencies, as appropriate, is hereby authorized to submit recurring and final reports to the Congress on the national emergency declared in this order, consistent with section 401(c) of the NEA (50 U.S.C. 1641(c)) and section 204(c) of IEEPA (50 U.S.C. 1703(c)).

**Sec. 2.** (a) It is the policy of the United States that relevant agencies should, as appropriate and consistent with applicable law, prioritize the expansion and protection of the domestic supply chain for minerals and the establishment of secure critical minerals supply chains, and should direct agency resources to this purpose, such that:

(i) the United States develops secure critical minerals supply chains that do not depend on resources or processing from foreign adversaries;

(ii) the United States establishes, expands, and strengthens commercially viable critical minerals mining and minerals processing capabilities; and

(iii) the United States develops globally competitive, substantial, and resilient domestic commercial supply chain capabilities for critical minerals mining and processing.

(b) Within 30 days of the date of this order, the heads of all relevant agencies shall each submit a report to the President, through the Director of the Office of Management and Budget, the Assistant to the President for National Security Affairs, and the Assistant to the President for Economic Policy, that identifies all legal authorities and appropriations that the agency can use to meet the goals identified in subsection (a) of this section.

(c) Within 60 days of the date of this order, the heads of all relevant agencies shall each submit a report as provided in subsection (b) of this section that details the agency's strategy for using the legal authorities and appropriations identified pursuant to that subsection to meet the goals identified in subsection (a) of this section. The report shall explain how the agency's activities will be organized and how it proposes to coordinate relevant activities with other agencies.

(d) Within 60 days of the date of this order, the Director of the Office of Science and Technology Policy shall submit a report to the President, through the Director of the Office of Management and Budget, the Assistant to the President for National Security Affairs, the Assistant to the President for Economic Policy, and the Assistant to the President for Trade and Manufacturing Policy, that describes the current state of research and development activities undertaken by the Federal Government that relate to the mapping, extraction, processing, and use of minerals and that identifies future research and development needs and funding opportunities to strengthen domestic supply chains for minerals.

(e) Within 45 days of the date of this order, the Secretary of State, in consultation with the United States Trade Representative, shall submit a report to the President, through the Assistant to the President for National Security Affairs, the Assistant to the President for Economic Policy, and the Assistant to the President for Trade and Manufacturing Policy, that details existing and planned efforts and policy options to:

(i) reduce the vulnerability of the United States to the disruption of critical mineral supply chains through cooperation and coordination with partners and allies, including the private sector;

- (ii) build resilient critical mineral supply chains, including through initiatives to help allies build reliable critical mineral supply chains within their own territories;
- (iii) promote responsible minerals sourcing, labor, and business practices; and
- (iv) reduce the dependence of the United States on minerals produced using methods that do not adhere to responsible mining standards.

**Sec. 3.** The Secretary of the Interior, in consultation with the Secretary of Defense, shall consider whether the authority delegated at section 306 of Executive Order 13603 of March 16, 2012 (National Defense Resources Preparedness) can be used to establish a program to provide grants to procure or install production equipment for the production and processing of critical minerals in the United States.

**Sec. 4.** (a) Within 30 days of the date of this order, the Secretary of Energy shall develop and publish guidance (and, as appropriate, shall revoke, revise, or replace prior guidance, including loan solicitations) clarifying the extent to which projects that support domestic supply chains for minerals are eligible for loan guarantees pursuant to Title XVII of the Energy Policy Act of 2005, as amended (42 U.S.C. 16511 *et seq.*) (“Title XVII”), and for funding awards and loans pursuant to the Advanced Technology Vehicles Manufacturing incentive program established by section 136 of the Energy Independence and Security Act of 2007, as amended (42 U.S.C. 17013) (“the ATVM statute”). In developing such guidance, the Secretary:

- (i) shall consider whether the relevant provisions of Title XVII can be interpreted in a manner that better promotes the expansion and protection of the domestic supply chain for minerals (including the development of new supply chains and the processing, remediation, and reuse of materials already in interstate commerce or otherwise available domestically);
- (ii) shall examine the meaning of the terms “avoid, reduce, or sequester” and other key terms in section 16513(a) of title 42, United States Code, which provides that the Secretary “may make guarantees under this section only for projects that—(1) avoid, reduce, or sequester air pollutants or anthropogenic emissions of greenhouse gases; and (2) employ new or significantly improved technologies as compared to commercial technologies in service in the United States at the time the guarantee is issued”;
- (iii) shall consider whether relevant provisions of the ATVM statute may be interpreted in a manner that better promotes the expansion and protection of the domestic supply chain for minerals (including the development of new supply chains and the processing, remediation, and reuse of materials already in interstate commerce or otherwise available domestically), including in such consideration the application of these provisions to minerals determined to be components installed for the purpose of meeting the performance requirements of advanced technology vehicles; and
- (iv) shall examine the meaning of the terms “qualifying components” and other key terms in subsection 17013(a) of title 42, United States Code.

(b) Within 30 days of the date of this order, the Secretary of Energy shall review the Department of Energy's regulations (including any preambles thereto) interpreting Title XVII and the ATVM statute, including the regulations published at 81 *Fed. Reg.* 90,699 (Dec. 15, 2016) and 73 *Fed. Reg.* 66,721 (Nov. 12, 2008), and shall identify all such regulations that may warrant revision or reconsideration in order to expand and protect the domestic supply chain for minerals (including the development of new supply chains and the processing, remediation, and reuse of materials already in interstate commerce or otherwise available domestically). Within 90 days of the date of this order, the Secretary shall propose for notice and comment a rule or rules to revise or reconsider any such regulations for this purpose, as appropriate and consistent with applicable law.

**Sec. 5.** The Secretary of the Interior, the Secretary of Agriculture, the Secretary of Commerce, the Administrator of the Environmental Protection Agency, the Secretary of the Army (acting through the Assistant Secretary of the Army for Civil Works), and the heads of all other relevant agencies shall, as appropriate and consistent with applicable law, use all available authorities to accelerate the issuance of permits and the completion of projects in connection with expanding and protecting the domestic supply chain for minerals.

**Sec. 6.** The Secretary of the Interior, the Secretary of Energy, and the Administrator of the Environmental Protection Agency shall examine all available authorities of their respective agencies and identify any such authorities that could be used to accelerate and encourage the development and reuse of historic coal waste areas, material on historic mining sites, and abandoned mining sites for the recovery of critical minerals.

**Sec. 7. Amendment.** Executive Order 13817 is hereby amended to add the following sentence to the end of section 2(b): "This list shall be updated periodically, following the same process, to reflect current data on supply, demand, and concentration of production, as well as current policy priorities."

**Sec. 8. Definitions.** As used in this order:

(a) the term "critical minerals" means the minerals and materials identified by the Secretary of the Interior pursuant to section 2(b) of Executive Order 13817, as amended by this order; and

(b) the term "supply chain," when used with reference to minerals, includes the exploration, mining, concentration, separation, alloying, recycling, and reprocessing of minerals.

**Sec. 9. General Provisions.** (a) Nothing in this order shall be construed to impair or otherwise affect:

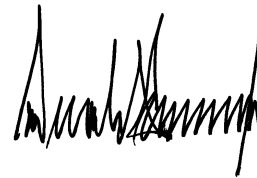
(i) the authority granted by law to an executive department or agency, or the head thereof; or

(ii) the functions of the Director of the Office of Management and Budget relating to budgetary, administrative, or legislative proposals.

(b) This order shall be implemented consistent with applicable law and subject to the availability of appropriations.



(c) This order is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person.

A handwritten signature in black ink, appearing to be a stylized name, possibly "Donald Trump", written in a cursive script.

THE WHITE HOUSE,  
*September 30, 2020.*

BRIEFING ROOM

# Executive Order on America's Supply Chains

FEBRUARY 24, 2021 • PRESIDENTIAL ACTIONS

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

Section 1. Policy. The United States needs resilient, diverse, and secure supply chains to ensure our economic prosperity and national security. Pandemics and other biological threats, cyber-attacks, climate shocks and extreme weather events, terrorist attacks, geopolitical and economic competition, and other conditions can reduce critical manufacturing capacity and the availability and integrity of critical goods, products, and services. Resilient American supply chains will revitalize and rebuild domestic manufacturing capacity, maintain America's competitive edge in research and development, and create well-paying jobs. They will also support small businesses, promote

prosperity, advance the fight against climate change, and encourage economic growth in communities of color and economically distressed areas.

More resilient supply chains are secure and diverse — facilitating greater domestic production, a range of supply, built-in redundancies, adequate stockpiles, safe and secure digital networks, and a world-class American manufacturing base and workforce. Moreover, close cooperation on resilient supply chains with allies and partners who share our values will foster collective economic and national security and strengthen the capacity to respond to international disasters and emergencies.

Therefore, it is the policy of my Administration to strengthen the resilience of America's supply chains.

Sec. 2. Coordination. The Assistant to the President for National Security Affairs (APNSA) and the Assistant to the President for Economic Policy (APEP) shall coordinate the executive branch actions necessary to implement this order through the interagency process identified in National Security Memorandum 2 of February 4, 2021 (Renewing the National Security Council System). In implementing this order, the heads of agencies should, as appropriate, consult outside stakeholders — such as those in industry, academia, non-governmental organizations, communities, labor unions, and State, local, and Tribal

governments — in order to fulfill the policy identified in section 1 of this order.

Sec. 3. 100-Day Supply Chain Review. (a) To advance the policy described in section 1 of this order, the APNSA and the APEP, in coordination with the heads of appropriate agencies, as defined in section 6(a) of this order, shall complete a review of supply chain risks, as outlined in subsection (b) of this section, within 100 days of the date of this order.

(b) Within 100 days of the date of this order, the specified heads of agencies shall submit the following reports to the President, through the APNSA and the APEP:

(i) The Secretary of Commerce, in consultation with the heads of appropriate agencies, shall submit a report identifying risks in the semiconductor manufacturing and advanced packaging supply chains and policy recommendations to address these risks. The report shall include the items described in section 4(c) of this order.

(ii) The Secretary of Energy, in consultation with the heads of appropriate agencies, shall submit a report identifying risks in the supply chain for high-capacity batteries, including electric-vehicle batteries, and policy recommendations to address these risks. The report shall include the items described in section 4(c) of this order.

(iii) The Secretary of Defense (as the National Defense

Stockpile Manager), in consultation with the heads of appropriate agencies, shall submit a report identifying risks in the supply chain for critical minerals and other identified strategic materials, including rare earth elements (as determined by the Secretary of Defense), and policy recommendations to address these risks. The report shall also describe and update work done pursuant to Executive Order 13953 of September 30, 2020 (Addressing the Threat to the Domestic Supply Chain From Reliance on Critical Minerals From Foreign Adversaries and Supporting the Domestic Mining and Processing Industries). The report shall include the items described in section 4(c) of this order.

(iv) The Secretary of Health and Human Services, in consultation with the heads of appropriate agencies, shall submit a report identifying risks in the supply chain for pharmaceuticals and active pharmaceutical ingredients and policy recommendations to address these risks. The report shall complement the ongoing work to secure the supply chains of critical items needed to combat the COVID-19 pandemic, including personal protective equipment, conducted pursuant to Executive Order 14001 of January 21, 2021 (A Sustainable Public Health Supply Chain). The report shall include the items described in section 4(c) of this order.

(c) The APNSA and the APEP shall review the reports required under subsection (b) of this section and shall submit the reports to the President in an unclassified form, but may include a classified annex.

(d) The APNSA and the APEP shall include a cover memorandum to the set of reports submitted pursuant to this section, summarizing the reports' findings and making any additional overall recommendations for addressing the risks to America's supply chains, including the supply chains for the products identified in subsection (b) of this section.

Sec. 4. Sectoral Supply Chain Assessments. (a) Within 1 year of the date of this order, the specified heads of agencies shall submit the following reports to the President, through the APNSA and the APEP:

(i) The Secretary of Defense, in consultation with the heads of appropriate agencies, shall submit a report on supply chains for the defense industrial base that updates the report provided pursuant to Executive Order 13806 of July 21, 2017 (Assessing and Strengthening the Manufacturing and Defense Industrial Base and Supply Chain Resiliency of the United States), and builds on the Annual Industrial Capabilities Report mandated by the Congress pursuant to section 2504 of title 10, United States Code. The report shall identify areas where civilian supply

chains are dependent upon competitor nations, as determined by the Secretary of Defense.

(ii) The Secretary of Health and Human Services, in consultation with the heads of appropriate agencies, shall submit a report on supply chains for the public health and biological preparedness industrial base (as determined by the Secretary of Health and Human Services). The report shall complement the work conducted pursuant to section 4 of Executive Order 14001.

(iii) The Secretary of Commerce and the Secretary of Homeland Security, in consultation with the heads of appropriate agencies, shall submit a report on supply chains for critical sectors and subsectors of the information and communications technology (ICT) industrial base (as determined by the Secretary of Commerce and the Secretary of Homeland Security), including the industrial base for the development of ICT software, data, and associated services.

(iv) The Secretary of Energy, in consultation with the heads of appropriate agencies, shall submit a report on supply chains for the energy sector industrial base (as determined by the Secretary of Energy).

(v) The Secretary of Transportation, in consultation with the heads of appropriate agencies, shall submit a report on supply chains for the transportation industrial

base (as determined by the Secretary of Transportation).

(vi) The Secretary of Agriculture, in consultation with the heads of appropriate agencies, shall submit a report on supply chains for the production of agricultural commodities and food products.

(b) The APNSA and the APEP shall, as appropriate and in consultation with the heads of appropriate agencies, recommend adjustments to the scope for each industrial base assessment, including digital networks, services, assets, and data (“digital products”), goods, services, and materials that are relevant within more than one defined industrial base, and add new assessments, as appropriate, for goods and materials not included in the above industrial base assessments.

(c) Each report submitted under subsection (a) of this section shall include a review of:

(i) the critical goods and materials, as defined in section 6(b) of this order, underlying the supply chain in question;

(ii) other essential goods and materials, as defined in section 6(d) of this order, underlying the supply chain in question, including digital products;

(iii) the manufacturing or other capabilities necessary to produce the materials identified in subsections (c)(i) and (c)(ii) of this section, including emerging capabilities;



(iv) the defense, intelligence, cyber, homeland security, health, climate, environmental, natural, market, economic, geopolitical, human-rights or forced-labor risks or other contingencies that may disrupt, strain, compromise, or eliminate the supply chain – including risks posed by supply chains' reliance on digital products that may be vulnerable to failures or exploitation, and risks resulting from the elimination of, or failure to develop domestically, the capabilities identified in subsection (c)(iii) of this section – and that are sufficiently likely to arise so as to require reasonable preparation for their occurrence;

(v) the resilience and capacity of American manufacturing supply chains and the industrial and agricultural base – whether civilian or defense – of the United States to support national and economic security, emergency preparedness, and the policy identified in section 1 of this order, in the event any of the contingencies identified in subsection (c)(iv) of this section occurs, including an assessment of:

(A) the manufacturing or other needed capacities of the United States, including the ability to modernize to meet future needs;

(B) gaps in domestic manufacturing capabilities, including nonexistent, extinct, threatened, or single-point-of-failure capabilities;

(C) supply chains with a single point of failure, single or dual suppliers, or limited resilience, especially for subcontractors, as defined by section 44.101 of title 48, Code of Federal Regulations (Federal Acquisition Regulation);

(D) the location of key manufacturing and production assets, with any significant risks identified in subsection (c)(iv) of this section posed by the assets' physical location;

(E) exclusive or dominant supply of critical goods and materials and other essential goods and materials, as identified in subsections (c)(i) and (c)(ii) of this section, by or through nations that are, or are likely to become, unfriendly or unstable;

(F) the availability of substitutes or alternative sources for critical goods and materials and other essential goods and materials, as identified in subsections (c)(i) and (c)(ii) of this section;

(G) current domestic education and manufacturing workforce skills for the relevant sector and identified gaps, opportunities, and potential best practices in meeting the future workforce needs for the relevant sector;

(H) the need for research and development capacity to sustain leadership in the development of critical goods and materials and other essential goods and materials, as identified in subsections (c)(i) and (c)(ii) of this section;

(I) the role of transportation systems in supporting existing supply chains and risks associated with those transportation systems; and

(J) the risks posed by climate change to the availability, production, or transportation of critical goods and materials and other essential goods and materials, as identified in subsections (c)(i) and (c)(ii) of this section.

(vi) allied and partner actions, including whether United States allies and partners have also identified and prioritized the critical goods and materials and other essential goods and materials identified in subsections (c)(i) and (c)(ii) of this section, and possible avenues for international engagement. In assessing these allied and partner actions, the heads of agencies shall consult with the Secretary of State;

(vii) the primary causes of risks for any aspect of the relevant industrial base and supply chains assessed as vulnerable pursuant to subsection (c)(v) of this section;

(viii) a prioritization of the critical goods and materials and other essential goods and materials, including digital products, identified in subsections (c)(i) and (c)(ii) of this section for the purpose of identifying options and policy recommendations. The prioritization shall be based on statutory or regulatory requirements; importance to national security, emergency preparedness,

and the policy set forth in section 1 of this order; and the review conducted pursuant to subsection (c)(v) of this section;

(ix) specific policy recommendations for ensuring a resilient supply chain for the sector. Such recommendations may include sustainably reshoring supply chains and developing domestic supplies, cooperating with allies and partners to identify alternative supply chains, building redundancy into domestic supply chains, ensuring and enlarging stockpiles, developing workforce capabilities, enhancing access to financing, expanding research and development to broaden supply chains, addressing risks due to vulnerabilities in digital products relied on by supply chains, addressing risks posed by climate change, and any other recommendations;

(x) any executive, legislative, regulatory, and policy changes and any other actions to strengthen the capabilities identified in subsection (c)(iii) of this section, and to prevent, avoid, or prepare for any of the contingencies identified in subsection (c)(iv) of this section; and

(xi) proposals for improving the Government-wide effort to strengthen supply chains, including proposals for coordinating actions required under this order with ongoing efforts that could be considered duplicative of the work of this order or with existing Government

mechanisms that could be used to implement this order in a more effective manner.

(d) The APNSA and the APEP shall review the reports required under subsection (a) of this section and shall submit the reports to the President in an unclassified form, but may include a classified annex.

Sec. 5. General Review and Recommendations. As soon as practicable following the submission of the reports required under section 4 of this order, the APNSA and the APEP, in coordination with the heads of appropriate agencies, shall provide to the President one or more reports reviewing the actions taken over the previous year and making recommendations concerning:

(a) steps to strengthen the resilience of America's supply chains;

(b) reforms needed to make supply chain analyses and actions more effective, including statutory, regulatory, procedural, and institutional design changes. The report shall include recommendations on whether additional offices, personnel, resources, statistical data, or authorities are needed;

(c) establishment of a quadrennial supply chain review, including processes and timelines regarding ongoing data gathering and supply chain monitoring;

(d) diplomatic, economic, security, trade policy,

informational, and other actions that can successfully engage allies and partners to strengthen supply chains jointly or in coordination;

(e) insulating supply chain analyses and actions from conflicts of interest, corruption, or the appearance of impropriety, to ensure integrity and public confidence in supply chain analyses;

(f) reforms to domestic and international trade rules and agreements needed to support supply chain resilience, security, diversity, and strength;

(g) education and workforce reforms needed to strengthen the domestic industrial base;

(h) steps to ensure that the Government's supply chain policy supports small businesses, prevents monopolization, considers climate and other environmental impacts, encourages economic growth in communities of color and economically distressed areas, and ensures geographic dispersal of economic activity across all regions of the United States; and

(i) Federal incentives and any amendments to Federal procurement regulations that may be necessary to attract and retain investments in critical goods and materials and other essential goods and materials, as defined in sections 6(b) and 6(d) of this order, including any new programs that could encourage both domestic and foreign investment in

critical goods and materials.

Sec. 6. Definitions. For purposes of this order:

(a) “Agency” means any authority of the United States that is an “agency” under 44 U.S.C. 3502(1), other than those considered to be independent regulatory agencies, as defined in 44 U.S.C. 3502(5). “Agency” also means any component of the Executive Office of the President.

(b) “Critical goods and materials” means goods and raw materials currently defined under statute or regulation as “critical” materials, technologies, or infrastructure.

(c) “Critical minerals” has the meaning given to that term in Executive Order 13953 of September 30, 2020 (Addressing the Threat to the Domestic Supply Chain From Reliance on Critical Minerals From Foreign Adversaries and Supporting the Domestic Mining and Processing Industries).

(d) “Other essential goods and materials” means goods and materials that are essential to national and economic security, emergency preparedness, or to advance the policy set forth in section 1 of this order, but not included within the definition of “critical goods and materials.”

(e) “Supply chain,” when used with reference to minerals, includes the exploration, mining, concentration, separation, alloying, recycling, and reprocessing of minerals.

Sec. 7. General Provisions. (a) Nothing in this order shall be construed to impair or otherwise affect

(i) the authority granted by law to an executive department or agency, or the head thereof; or

(ii) the functions of the Director of the Office of Management and Budget relating to budgetary, administrative, or legislative proposals.

(b) This order shall be implemented consistent with applicable law and subject to the availability of appropriations.

(c) This order is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person.

JOSEPH R. BIDEN JR.

THE WHITE HOUSE,

February 24, 2021.