

**AMENDMENT TO RULES COMMITTEE PRINT**

**116-63**

**OFFERED BY MR. WALTZ**

Beginning on page 718, strike line 2 and all that follows through page 736, line 11 and insert the following:

1 **SEC. 10101. DEFINITIONS.**

2 In this title:

3 (1) **BYPRODUCT.**—The term “byproduct”  
4 means a critical mineral—

5 (A) the recovery of which depends on the  
6 production of a host mineral that is not des-  
7 igned as a critical mineral; and

8 (B) that exists in sufficient quantities to  
9 be recovered during processing or refining.

10 (2) **CRITICAL MINERAL.**—

11 (A) **IN GENERAL.**—The term “critical min-  
12 eral” means any mineral, element, substance, or  
13 material designated as critical by the Secretary  
14 under section 102.

15 (B) **EXCLUSIONS.**—The term “critical  
16 mineral” does not include—

1 (i) oil, natural gas, or any other fossil  
2 fuels; or

3 (ii) water, ice, or snow.

4 (3) CRITICAL MINERAL MANUFACTURING.—The  
5 term “critical mineral manufacturing” means—

6 (A) the exploration, development, mining,  
7 production, processing, refining, alloying, separa-  
8 tion, concentration, magnetic sintering, melt-  
9 ing, or beneficiation of critical minerals within  
10 the United States;

11 (B) the fabrication, assembly, or produc-  
12 tion using a critical mineral, within the United  
13 States, of equipment, components, or other  
14 goods with energy technology-, defense-, agri-  
15 culture-, consumer electronics-, or health care-  
16 related applications; or

17 (C) any other value-added, manufacturing-  
18 related use of critical minerals undertaken with-  
19 in the United States.

20 (4) INDIAN TRIBE.—The term “Indian Tribe”  
21 has the meaning given the term in section 4 of the  
22 Indian Self-Determination and Education Assistance  
23 Act (25 U.S.C. 5304).

24 (5) SECRETARY.—The term “Secretary” means  
25 the Secretary of the Interior.

1 (6) STATE.—The term “State” means—

2 (A) a State;

3 (B) the District of Columbia;

4 (C) the Commonwealth of Puerto Rico;

5 (D) Guam;

6 (E) American Samoa;

7 (F) the Commonwealth of the Northern

8 Mariana Islands; and

9 (G) the United States Virgin Islands.

10 (7) LEAD AGENCY.—The term “lead agency”

11 means the agency with primary responsibility for

12 issuing a mineral exploration or mine permit for a

13 project.

14 (8) MINERAL EXPLORATION OR MINE PER-

15 MIT.—The term “mineral exploration or mine per-

16 mit” means—

17 (A) an authorization of the Bureau of

18 Land Management or the Forest Service, as ap-

19 plicable, for a premining activity that requires

20 analysis under the National Environmental Pol-

21 icy Act of 1969 (42 U.S.C. 4321 et seq.);

22 (B) a plan of operations issued by—

23 (i) the Bureau of Land Management

24 under subpart 3809 of part 3800 of title

1                   43, Code of Federal Regulations (or suc-  
2                   cessor regulations); or

3                   (ii) the Forest Service under subpart  
4                   A of part 228 of title 36, Code of Federal  
5                   Regulations (or successor regulations); or

6                   (C) a permit for a project located in an  
7                   area described in section 3503.13 of title 43,  
8                   Code of Federal Regulations (or successor regu-  
9                   lations).

10                  (9) PROJECT.—The term “project” means a  
11                  project relating to, or incidental to mineral explo-  
12                  ration, mining, beneficiation, processing, or reclama-  
13                  tion activities—

14                         (A) on a mining claim, millsite claim, or  
15                         tunnel site claim for any locatable mineral; or

16                         (B) in conjunction with any Federal min-  
17                         eral (other than coal and oil shale) that is  
18                         leased under—

19                                 (i) the Mineral Leasing Act for Ac-  
20                                 quired Lands (30 U.S.C. 351 et seq.); or

21                                 (ii) section 402 of Reorganization  
22                                 Plan Numbered 3 of 1946 (5 U.S.C.  
23                                 App.).

1           **Subtitle A—Critical Mineral**  
2                           **Production**

3   **SEC. 10110. POLICY.**

4           (a) SENSE OF CONGRESS.—Congress finds the fol-  
5   lowing:

6                   (1) The assured supply of critical minerals and  
7           the resiliency of their supply chains are essential to  
8           the economic prosperity and national defense of the  
9           United States.

10                   (2) The United States is heavily dependent on  
11           foreign sources of critical minerals and on foreign  
12           supply chains resulting in the potential for strategic  
13           vulnerabilities to both the economy and the military.

14                   (3) As deployment of clean energy technologies  
15           and emissions control devices increase, the demand  
16           for critical minerals will grow significantly.

17                   (4) The United States is import-reliant for 31  
18           of the 35 minerals designated as critical by the De-  
19           partment of the Interior and relies completely on im-  
20           ports to supply its demand for 14 of these minerals.

21                   (5) Over the past two decades China has pro-  
22           duced more than 80 percent of the world's produc-  
23           tion of rare-earth elements and processed chemicals.

24           (b) SENSE OF CONGRESS.—It is the sense of Con-  
25   gress that to break from China's control on the mineral

1 supply chain, the United States should support significant  
2 research and development activities to drive innovation in  
3 domestic critical minerals production, promote responsible  
4 development of critical minerals, and encourage inter-  
5 national collaboration to limit the impact of mineral sup-  
6 ply disruptions.

7 (c) IN GENERAL.—Section 3 of the National Mate-  
8 rials and Minerals Policy, Research and Development Act  
9 of 1980 (30 U.S.C. 1602) is amended—

10 (1) by amending paragraph (3) to read as fol-  
11 lows:

12 “(3) establish an analytical and forecasting ca-  
13 pability for identifying critical mineral demand, sup-  
14 ply, and other factors to allow informed actions to  
15 be taken to avoid supply shortages, mitigate price  
16 volatility, and prepare for demand growth and other  
17 market shifts;”;

18 (2) in paragraph (6), by striking “and” at the  
19 end; and

20 (3) by striking paragraph (7) and inserting the  
21 following:

22 “(7) facilitate the availability, development, and  
23 environmentally responsible production of domestic  
24 resources to meet national material or critical min-  
25 eral needs;

1           “(8) avoid duplication of effort, prevent unneces-  
2           sary paperwork, and minimize delays in the ad-  
3           ministration of applicable laws (including regula-  
4           tions) and the issuance of permits and authoriza-  
5           tions necessary to explore for, develop, and produce  
6           critical minerals and to construct critical mineral  
7           manufacturing facilities in accordance with applica-  
8           ble environmental and land management laws;

9           “(9) strengthen—

10           “(A) educational and research capabilities  
11           at not lower than the secondary school level;  
12           and

13           “(B) workforce training for exploration  
14           and development of critical minerals and critical  
15           mineral manufacturing;

16           “(10) bolster international cooperation through  
17           technology transfer, information sharing, and other  
18           means;

19           “(11) promote the efficient production, use, and  
20           recycling of critical minerals;

21           “(12) develop alternatives to critical minerals;  
22           and

23           “(13) establish contingencies for the production  
24           of, or access to, critical minerals for which viable  
25           sources do not exist within the United States.”.

1 (d) CONFORMING AMENDMENT.—Section 2(b) of the  
2 National Materials and Minerals Policy, Research and De-  
3 velopment Act of 1980 (30 U.S.C. 1601(b)) is amended  
4 to read as follows:

5 “(b) DEFINITIONS.—In this Act:

6 “(1) CRITICAL MINERAL.—The term ‘critical  
7 mineral’ has the meaning given such term in section  
8 2 of the American Critical Mineral Exploration and  
9 Innovation Act of 2020.

10 “(2) MATERIALS.—The term ‘materials’ means  
11 substances, including minerals, of current or poten-  
12 tial use that will be needed to supply the industrial,  
13 military, and essential civilian needs of the United  
14 States in the production of goods or services, includ-  
15 ing those which are primarily imported or for which  
16 there is a prospect of shortages or uncertain supply,  
17 or which present opportunities in terms of new phys-  
18 ical properties, use, recycling, disposal or substi-  
19 tution, with the exclusion of food and of energy fuels  
20 used as such.”.

21 (e) CRITICAL MINERALS INTERAGENCY SUB-  
22 COMMITTEE.—

23 (1) IN GENERAL.—The Critical Minerals Sub-  
24 committee of the National Science and Technology  
25 Council (referred to in this section as “Sub-



1 committee”) shall coordinate Federal science and  
2 technology efforts to ensure secure and reliable sup-  
3 plies of critical minerals to the United States.

4 (2) PURPOSES.—The purposes of the Sub-  
5 committee shall be—

6 (A) to advise and assist the Committee on  
7 Homeland and National Security and the Na-  
8 tional Science and Technology Council on  
9 United States policies, procedures, and plans as  
10 it relates to critical minerals, including—

11 (i) Federal research, development, and  
12 deployment efforts to optimize methods for  
13 extractions, concentration, separation and  
14 purification of conventional, secondary,  
15 and unconventional sources of critical min-  
16 erals;

17 (ii) efficient use and reuse of critical  
18 minerals;

19 (iii) the critical minerals workforce of  
20 the United States; and

21 (iv) United States private industry in-  
22 vestments in innovation and technology  
23 transfer from federally funded science and  
24 technology;

1 (B) to identify emerging opportunities,  
2 stimulate international cooperation, and foster  
3 the development of secure and reliable supply  
4 chains of critical minerals;

5 (C) to ensure the transparency of informa-  
6 tion and data related to critical minerals; and

7 (D) to provide recommendations on coordi-  
8 nation and collaboration among the research,  
9 development, and deployment programs and ac-  
10 tivities of Federal agencies to promote a secure  
11 and reliable supply of critical minerals nec-  
12 essary to maintain national security, economic  
13 well-being, and industrial production.

14 (3) RESPONSIBILITIES.—In carrying out para-  
15 graphs (1) and (2), the Subcommittee may, taking  
16 into account the findings and recommendations of  
17 relevant advisory committees—

18 (A) provide recommendations on how Fed-  
19 eral agencies may improve the topographic, geo-  
20 logic, and geophysical mapping of the United  
21 States and improve the discoverability, accessi-  
22 bility, and usability of the resulting and existing  
23 data, to the extent permitted by law and subject  
24 to appropriate limitation for purposes of privacy  
25 and security; assess the progress towards devel-

1           oping critical minerals recycling and reprocess-  
2           ing technologies, and technological alternatives  
3           to critical minerals;

4           (B) examine options for accessing and de-  
5           veloping critical minerals through investment  
6           and trade with our allies and partners and pro-  
7           vide recommendations;

8           (C) evaluate and provide recommendations  
9           to incentivize the development and use of ad-  
10          vances in science and technology in the private  
11          industry;

12          (D) assess the need for and make rec-  
13          ommendations to address the challenges the  
14          United States critical minerals supply chain  
15          workforce faces, including aging and retiring  
16          personnel and faculty; public perceptions about  
17          the nature of mining and mineral processing;  
18          and foreign competition for United States tal-  
19          ent;

20          (E) develop, and update as necessary, a  
21          strategic plan to guide Federal programs and  
22          activities to enhance scientific and technical ca-  
23          pabilities across critical mineral supply chains,  
24          including a roadmap that identifies key re-  
25          search and development needs and coordinates

1 ongoing activities for source diversification,  
2 more efficient use, recycling, and substitution  
3 for critical minerals; as well as cross-cutting  
4 mining science, data science techniques, mate-  
5 rials science, manufacturing science and engi-  
6 neering, computational modeling, and environ-  
7 mental health and safety research and develop-  
8 ment; and

9 (F) report to the appropriate committees  
10 of Congress on activities and findings under  
11 this section.

12 **SEC. 10111. CRITICAL MINERAL DESIGNATIONS.**

13 (a) DRAFT.—The Secretary, acting through the Di-  
14 rector of the United States Geological Survey, shall pub-  
15 lish in the Federal Register for public comment a draft—

16 (1) description of the methodology used to iden-  
17 tify critical minerals;

18 (2) list of minerals, elements, substances, and  
19 materials that qualify as critical minerals; and

20 (3) list of critical minerals recoverable as by-  
21 products.

22 (b) FINAL.—Not later than 45 days after the date  
23 on which the public comment period described in para-  
24 graph (1) ends, the Secretary, acting through the Director

1 of the United States Geological Survey, shall publish in  
2 the Federal Register—

3 (1) a description of the methodology for deter-  
4 mining which minerals, elements, substances, and  
5 materials qualify as critical minerals;

6 (2) a list of critical minerals; and

7 (3) a list of critical minerals recoverable as by-  
8 products.

9 (c) CRITERIA.—

10 (1) IN GENERAL.—The Secretary shall des-  
11 ignate a mineral, element, substance, or material as  
12 a critical mineral for the purposes of this subsection  
13 if the Secretary determines, in consultation with the  
14 Secretaries of Defense, Commerce, Agriculture, and  
15 Energy, and the United States Trade Representative  
16 that—

17 (A) such mineral, element, substance, or  
18 material is essential to the economic or national  
19 security of the United States;

20 (B) the supply chain of such mineral, ele-  
21 ment, substance, or material is vulnerable to  
22 disruption (including restrictions associated  
23 with foreign political risk, abrupt demand  
24 growth, military conflict, violent unrest, anti-

1 competitive or protectionist behaviors, and other  
2 risks throughout the supply chain); and

3 (C) such mineral, element, substance, or  
4 material serves an essential function in the  
5 manufacturing of a product (including energy  
6 technology-, defense-, currency-, agriculture-,  
7 consumer electronics-, and health care-related  
8 applications), the absence of which would have  
9 significant consequences for the economic or na-  
10 tional security of the United States.

11 (2) DETERMINATION BY ANOTHER AGENCY.—

12 The Secretary may designate a mineral, element,  
13 substance, or material determined by another Fed-  
14 eral agency to be strategic and critical to the defense  
15 or national security of the United States.

16 (d) SUBSEQUENT REVIEW.—The Secretary, in con-  
17 sultation with the Secretaries of Defense, Commerce, Ag-  
18 riculture, and Energy and the United States Trade Rep-  
19 resentative, shall review the methodology and list under  
20 subsection (b) not less frequently than every 3 years and  
21 may revise such determinations as the Secretary, in con-  
22 sultation with Secretaries of Defense, Commerce, Agri-  
23 culture, and Energy and the United States Trade Rep-  
24 resentative, determines appropriate.

1 (e) QUANTITATIVE DATA.—The Secretary, in making  
2 a determination under this subsection, shall to the extent  
3 possible, use quantitative methods to make such deter-  
4 mination.

5 (f) NOTICE.—On finalization of the methodology and  
6 the list under subsection (b), or any revision to the meth-  
7 odology or list under subsection (d), the Secretary shall  
8 submit to Congress written notice of the action.

9 (g) AUTHORIZATION OF APPROPRIATIONS.—There  
10 are authorized to be appropriated to the Secretary  
11 \$1,000,000 for each of fiscal years 2021 through 2030  
12 to carry out this section.

13 **SEC. 10112. RESOURCE ASSESSMENT.**

14 (a) IN GENERAL.—Not later than 4 years after the  
15 date of enactment of this Act, in consultation with applica-  
16 ble States, State geological surveys, local governments and  
17 academic, industry, and other entities, the Secretary shall  
18 complete a comprehensive national resource assessment of  
19 each critical mineral that—

20 (1) identifies and quantifies known critical min-  
21 eral resources, using all available public and private  
22 information and datasets, including exploration his-  
23 tories; and

24 (2) provides a quantitative and qualitative as-  
25 sessment of undiscovered critical mineral resources

1 throughout the United States, including probability  
2 estimates of tonnage and grade, using all available  
3 public and private information and datasets, includ-  
4 ing exploration histories.

5 (b) SUPPLEMENTARY INFORMATION.—In carrying  
6 out this section, the Secretary shall carry out surveys and  
7 field work (including drilling, remote sensing, geophysical  
8 surveys, topographical and geological mapping, and geo-  
9 chemical sampling and analysis) to supplement existing in-  
10 formation and datasets available for determining the exist-  
11 ence of critical minerals in the United States.

12 (c) PUBLIC ACCESS.—Subject to applicable law, to  
13 the maximum extent practicable, the Secretary shall make  
14 all data and metadata collected from the comprehensive  
15 national assessment carried out under subsection (a) pub-  
16 licly and electronically accessible.

17 (d) TECHNICAL ASSISTANCE.—At the request of the  
18 Governor of a State or the head of an Indian tribe, the  
19 Secretary may provide technical assistance to State gov-  
20 ernments and Indian tribes conducting critical mineral re-  
21 source assessments on non-Federal land.

22 (e) PRIORITIZATION.—

23 (1) IN GENERAL.—The Secretary may sequence  
24 the completion of resource assessments for each crit-  
25 ical mineral such that critical minerals considered to



1 be most critical under the methodology established  
2 under section 10111 are completed first.

3 (2) INTERIM REPORTS.—During the period be-  
4 ginning not later than 1 year after the date of enact-  
5 ment of this Act and ending on the date of comple-  
6 tion of all of the assessments required under this  
7 section, the Secretary shall submit to Congress on  
8 an annual basis an interim report that—

9 (A) identifies the sequence and schedule  
10 for completion of the assessments if the Sec-  
11 retary sequences the assessments; or

12 (B) describes the progress of the assess-  
13 ments if the Secretary does not sequence the  
14 assessments.

15 (f) UPDATES.—The Secretary may periodically up-  
16 date the assessments conducted under this section based  
17 on—

18 (1) the generation of new information or  
19 datasets by the Federal Government; or

20 (2) the receipt of new information or datasets  
21 from critical mineral producers, State geological sur-  
22 veys, academic institutions, trade associations, or  
23 other persons.

24 (g) ADDITIONAL SURVEYS.—The Secretary shall  
25 complete a resource assessment for each additional min-

1 eral, element, substance, or material subsequently des-  
2 igned as a critical mineral under section 10111 not later  
3 than 2 years after such designation.

4 (h) REPORT.—Not later than 2 years after the date  
5 of enactment of this Act, the Secretary shall submit to  
6 Congress a report describing the status of geological sur-  
7 veying of Federal land for any mineral, element, sub-  
8 stance, or material commodity—

9 (1) for which the United States was dependent  
10 on a foreign country for more than 25 percent of the  
11 United States supply, as depicted in the report  
12 issued by the United States Geological Survey enti-  
13 tled “Mineral Commodity Summaries 2020”; but

14 (2) that is not designated as a critical mineral  
15 under section 10111.

16 (i) AUTHORIZATION OF APPROPRIATIONS.—There  
17 are authorized to be appropriated to the Secretary  
18 \$50,000,000 for each of fiscal years 2021 through 2030  
19 to carry out this section.

20 **SEC. 10113. PERMITTING.**

21 (a) SENSE OF CONGRESS.—It is the sense of Con-  
22 gress that—

23 (1) critical minerals are fundamental to the  
24 economy, competitiveness, and security of the United  
25 States;

1           (2) to the maximum extent practicable, the crit-  
2           ical mineral needs of the United States should be  
3           satisfied by minerals, elements, substances, and ma-  
4           terials responsibly produced and recycled in the  
5           United States; and

6           (3) the Federal permitting process has been  
7           identified as an impediment to mineral production  
8           and the mineral security of the United States.

9           (b) COORDINATION ON PERMITTING PROCESS.—

10           (1) IN GENERAL.—To improve the quality and  
11           timeliness of decisions, the lead agency shall, to the  
12           maximum extent practicable, with respect to a  
13           project on Federal land described in paragraph (2),  
14           complete Federal permitting and review processes  
15           with maximum efficiency and effectiveness, while  
16           supporting vital economic growth, by—

17                   (A) establishing and adhering to timelines  
18                   and schedules for the consideration of, and final  
19                   decisions regarding, applications, operating  
20                   plans, leases, licenses, permits, and other use  
21                   authorizations for mineral-related activities on  
22                   Federal land;

23                   (B) establishing clear, quantifiable, and  
24                   temporal permitting performance goals and  
25                   tracking progress against those goals;

1 (C) engaging in early collaboration among  
2 agencies, project sponsors, and affected stake-  
3 holders—

4 (i) to incorporate and address the in-  
5 terests of those parties; and

6 (ii) to minimize delays;

7 (D) ensuring transparency and account-  
8 ability by using cost-effective information tech-  
9 nology to collect and disseminate information  
10 regarding individual projects and agency per-  
11 formance;

12 (E) engaging in early and active consulta-  
13 tion with State, local, and Indian Tribal govern-  
14 ments to avoid conflicts or duplication of effort,  
15 resolve concerns, and allow for concurrent,  
16 rather than sequential, State, local, Tribal, and  
17 Federal environmental and regulatory reviews;

18 (F) providing demonstrable improvements  
19 in the performance of Federal permitting and  
20 review processes, including lower costs and  
21 more timely decisions;

22 (G) expanding and institutionalizing per-  
23 mitting and review process improvements that  
24 have proven effective;

1 (H) developing mechanisms to better com-  
2 municate priorities and resolve disputes among  
3 agencies at the national, regional, State, and  
4 local levels; and

5 (I) developing other practices to improve  
6 regulatory processes, such as preapplication  
7 procedures.

8 (2) PROJECTS DESCRIBED.—A project is de-  
9 scribed by this paragraph if such project is—

10 (A) a project to produce a critical mineral,  
11 including as a byproduct or from tailing;

12 (B) an exploration project with respect to  
13 which the presence of a byproduct is a reason-  
14 able expectation, based on known mineral  
15 companionship, geologic formation, mineralogy,  
16 or other factors; or

17 (C) a project that demonstrates that the  
18 byproduct is of sufficient grade that, if com-  
19 bined with the production of a host mineral, is  
20 economical to recover, as determined by the ap-  
21 plicable Secretary.

22 (3) CONSIDERATIONS.—In carrying out para-  
23 graph (1), the lead agency shall consider deferring  
24 to, and relying on, baseline data, analyses, and re-

1 views performed by State agencies with jurisdiction  
2 over the proposed project.

3 (4) MEMORANDUM OF AGREEMENT.—The lead  
4 agency with respect to a critical mineral project, in  
5 consultation with any other Federal agency with ju-  
6 risdiction over such project, may establish a memo-  
7 randum of agreement with the project sponsor, State  
8 and local governments, and other entities such lead  
9 agency determines appropriate to carry out the ac-  
10 tivities described in this subsection.

11 (5) TIME LIMIT FOR PERMITTING PROCESS.—  
12 Notwithstanding any other provision of law, and ex-  
13 cept with agreement of the project sponsor, the total  
14 period for all necessary Federal reviews and permit  
15 consideration for a project reasonably expected to  
16 produce critical minerals may not exceed 30 months.

17 (c) DETERMINATION UNDER NATIONAL ENVIRON-  
18 MENTAL POLICY ACT.—

19 (1) IN GENERAL.—To the extent that the Na-  
20 tional Environmental Policy Act of 1969 (42 U.S.C.  
21 4321 et seq.) applies to the issuance of any mineral  
22 exploration or mine permit, the lead agency may  
23 deem the requirements of such Act satisfied if the  
24 lead agency determines that a State or Federal

1 agency acting under State or Federal law has ad-  
2 dressed the following factors:

3 (A) The environmental impact of the ac-  
4 tion to be conducted under the permit.

5 (B) Possible adverse environmental effects  
6 of actions under the permit.

7 (C) Possible alternatives to issuance of the  
8 permit.

9 (D) The relationship between long- and  
10 short-term uses of the local environment and  
11 the maintenance and enhancement of long-term  
12 productivity.

13 (E) Any irreversible and irretrievable com-  
14 mitment of resources that would be involved in  
15 the proposed action.

16 (2) PUBLICATION.—The lead agency shall pub-  
17 lish a determination under paragraph (1) not later  
18 than 90 days after receipt of an application for the  
19 permit.

20 (3) VERIFICATION.—The lead agency shall pub-  
21 lish a determination that the factors under para-  
22 graph (1) have been sufficiently addressed and pub-  
23 lic participation has occurred with regard to any au-  
24 thorizing actions before issuing any mineral explo-  
25 ration or mine permit.

1 (d) SCHEDULE FOR PERMITTING PROCESS.—For  
2 any project for which the lead agency cannot make the  
3 determination described in (c), at the request of a project  
4 sponsor, the lead agency, cooperating agencies, and any  
5 other agencies involved with the mineral exploration or  
6 mine permitting process shall enter into an agreement  
7 with the project sponsor that sets time limits for each part  
8 of the permitting process, including—

9 (1) the decision on whether to prepare an envi-  
10 ronmental impact statement or similar analysis re-  
11 quired under the National Environmental Policy Act  
12 of 1969 (42 U.S.C. 4321 et seq.);

13 (2) a determination of the scope of any environ-  
14 mental impact statement or similar analysis required  
15 under such Act;

16 (3) the scope of, and schedule for, the baseline  
17 studies required to prepare an environmental impact  
18 statement or similar analysis required under such  
19 Act;

20 (4) preparation of any draft environmental im-  
21 pact statement or similar analysis required under  
22 such Act;

23 (5) preparation of a final environmental impact  
24 statement or similar analysis required under such  
25 Act;



1           (6) any consultations required under applicable  
2       law;

3           (7) submission and review of any comments re-  
4       quired under applicable law;

5           (8) publication of any public notices required  
6       under applicable law; and

7           (9) any final or interim decisions.

8       (e) ADDRESSING PUBLIC COMMENTS.—As part of  
9       the review process under the National Environmental Pol-  
10      icy Act of 1969 (42 U.S.C. 4321 et seq.), the lead agency  
11      may not address any agency or public comments that were  
12      not submitted—

13           (1) during a public comment period or consulta-  
14      tion period provided during the permitting process;  
15      or

16           (2) as otherwise required by law.

17      (f) REVIEW AND REPORT.—Not later than 1 year  
18      after the date of enactment of this Act, the Secretary and  
19      the Secretary of Agriculture shall submit to Congress a  
20      report that—

21           (1) identifies additional measures (including  
22      regulatory and legislative proposals, as appropriate)  
23      that would increase the timeliness of permitting ac-  
24      tivities for the exploration and development of do-  
25      mestic critical minerals;

1           (2) identifies options (including cost recovery  
2           paid by permit applicants, as appropriate) for ensur-  
3           ing adequate staffing and training of Federal enti-  
4           ties and personnel responsible for the consideration  
5           of applications, operating plans, leases, licenses, per-  
6           mits, and other use authorizations for critical min-  
7           eral-related activities on Federal land;

8           (3) quantifies the amount of time typically re-  
9           quired (including range derived from minimum and  
10          maximum durations, mean, median, variance, and  
11          any other statistical measure or representation the  
12          Secretary and the Secretary of Agriculture deter-  
13          mine appropriate) to complete each step (including  
14          those aspects outside the control of the executive  
15          branch, such as judicial review, applicant decisions,  
16          or State and local government involvement) associ-  
17          ated with the development and processing of applica-  
18          tions, operating plans, leases, licenses, permits, and  
19          other use authorizations for critical mineral-related  
20          activities on Federal land; and

21          (4) describes actions carried out pursuant to  
22          subsection (b).

23          (g) PERFORMANCE METRIC.—Not later than 90 days  
24          after the date of submission of the report under subsection  
25          (e), the Secretary and the Secretary of Agriculture, after

1 providing public notice and an opportunity to comment,  
2 shall develop and publish a performance metric for evalu-  
3 ating the progress made by the executive branch to expe-  
4 dite the permitting of activities that will increase explo-  
5 ration for, and development of, domestic critical minerals,  
6 while maintaining environmental standards.

7 (h) ANNUAL REPORTS.—Beginning with the first  
8 budget submission by the President under section 1105  
9 of title 31, United States Code, after publication of the  
10 performance metric required under subsection (f), and an-  
11 nually thereafter, the Secretaries of Agriculture and of the  
12 Interior shall jointly submit to Congress a report that—

13 (1) summarizes the implementation of rec-  
14 ommendations, measures, and options identified in  
15 paragraphs (1) and (2) of subsection (f);

16 (2) using the performance metric under sub-  
17 section (d), describes progress made by the executive  
18 branch, as compared to the baseline established pur-  
19 suant to subsection (c)(3), on expediting the permit-  
20 ting of activities that will increase exploration for,  
21 and development of, domestic critical minerals; and

22 (3) compares the United States to other coun-  
23 tries in terms of permitting efficiency and any other  
24 criteria relevant to the globally competitive critical  
25 minerals industry.

1 (i) INDIVIDUAL PROJECTS.—Using data from the  
2 Secretaries of Agriculture and of the Interior generated  
3 under subsection (g), the Director of the Office of Man-  
4 agement and Budget shall prioritize inclusion of individual  
5 critical mineral projects on the website operated by the  
6 Office of Management and Budget in accordance with sec-  
7 tion 1122 of title 31, United States Code.

8 (j) REPORT OF SMALL BUSINESS ADMINISTRA-  
9 TION.—Not later than 1 year and 300 days after the date  
10 of enactment of this Act, the Administrator of the Small  
11 Business Administration shall submit to the Committees  
12 on Small Business and Natural Resources of the House  
13 of Representatives and Small Business and Entrepreneur-  
14 ship and Energy and Natural Resources of the Senate a  
15 report that assesses the performance of Federal agencies  
16 with respect to—

17 (1) complying with chapter 6 of title 5, United  
18 States Code, in promulgating regulations applicable  
19 to the critical minerals industry; and

20 (2) performing an analysis of regulations appli-  
21 cable to the critical minerals industry that may be  
22 outmoded, inefficient, duplicative, or excessively bur-  
23 densome.

24 (k) APPLICATION.—Section 41001(6)(A) of the  
25 FAST Act (42 U.S.C. 4370m(6)(A)) is amended by in-

1 serting “(including critical mineral manufacturing (as de-  
2 fined in section 2 of the ‘American Critical Mineral Explo-  
3 ration and Innovation Act’))” after “manufacturing”.

4 **SEC. 10114. FEDERAL REGISTER PROCESS.**

5 (a) DEPARTMENTAL REVIEW.—Absent any extraor-  
6 dinary circumstance, and except as otherwise required by  
7 law, the Secretary and the Secretary of Agriculture shall  
8 ensure that each Federal Register notice described in sub-  
9 section (b) shall be—

10 (1) subject to any required reviews within the  
11 Department of the Interior or the Department of  
12 Agriculture; and

13 (2) published in final form in the Federal Reg-  
14 ister not later than 45 days after the date of initial  
15 preparation of the notice.

16 (b) PREPARATION.—The preparation of Federal Reg-  
17 ister notices required by law associated with the issuance  
18 of a critical mineral exploration or mine permit shall be  
19 delegated to the organizational level within the agency re-  
20 sponsible for issuing the critical mineral exploration or  
21 mine permit.

22 (c) TRANSMISSION.—All Federal Register notices re-  
23 garding official document availability, announcements of  
24 meetings, or notices of intent to undertake an action shall

1 be originated in, and transmitted to the Federal Register  
2 from, the office in which, as applicable—

3 (1) the documents or meetings are held; or

4 (2) the activity is initiated.

5 **SEC. 10115. DEPARTMENT OF ENERGY CRITICAL MINERALS**  
6 **RESEARCH AND DEVELOPMENT PROGRAM.**

7 (a) **IN GENERAL.**—The Secretary of Energy shall  
8 carry out a crosscutting research and development pro-  
9 gram to accelerate innovation in advanced critical minerals  
10 development strategies and technologies for the purpose  
11 of making better use of domestic resources and elimi-  
12 nating national reliance on minerals and mineral materials  
13 that are subject to supply disruptions.

14 (b) **EXECUTION.**—In carrying out this program, the  
15 Secretary of Energy shall—

16 (1) develop innovative technologies and prac-  
17 tices to diversify commercially viable domestic  
18 sources of critical minerals and identify new uses for  
19 co-products and by-products;

20 (2) advance new mapping and mining tech-  
21 nologies and techniques that can accelerate the ro-  
22 bust characterization of domestic critical minerals  
23 resources, including advanced critical mineral extrac-  
24 tion, production, separation, alloying, or processing  
25 technologies that can decrease the energy intensity,

1 potential environmental impact and costs of those  
2 activities;

3 (3) identify and develop alternative minerals,  
4 metals, and replacement materials that lessen the  
5 need for critical minerals, particularly those avail-  
6 able in abundance within the United States and not  
7 subject to supply disruptions, and design new sys-  
8 tems to use these alternatives;

9 (4) advance new technologies and techniques to  
10 support the economically viable manufacturing, recy-  
11 cling, and reuse of critical minerals; and

12 (5) develop advanced theoretical, computational,  
13 and experimental tools necessary to support the  
14 crosscutting basic research and development needs  
15 of diverse critical minerals stakeholders.

16 (c) LEVERAGING.—In carrying out the program  
17 under subsection (a) the Secretary of Energy shall lever-  
18 age resources and expertise across the Department and  
19 from—

20 (1) Federal agencies;

21 (2) National Laboratories;

22 (3) critical mineral producers;

23 (4) critical mineral processors;

24 (5) critical mineral manufacturers;

25 (6) trade associations;

1 (7) academic institutions;

2 (8) small businesses; and

3 (9) other relevant entities or individuals.

4 (d) STANDARD OF REVIEW.—Not later than 2 years  
5 after the date of the enactment of this Act the Secretary  
6 of Energy shall conduct a review of activities carried out  
7 under this program described in subsection (a) to deter-  
8 mine the achievement of technical milestones established  
9 in subsection (f).

10 (e) PROHIBITION.—No funds allocated to the pro-  
11 gram described in subsection (a) may be obligated or ex-  
12 pended for commercial application of energy technology.

13 (f) CRITICAL MINERALS CONSORTIUM.—

14 (1) IN GENERAL.—Not later than 1 year after  
15 the date of enactment of this Act, the Secretary of  
16 Energy shall establish and operate a Critical Min-  
17 erals Consortium (referred to in this section as the  
18 “Consortium”) for the purpose of supporting the  
19 program under subsection (a) by providing, to the  
20 maximum extent practicable, a centralized entity for  
21 multidisciplinary, collaborative, critical minerals re-  
22 search and development.

23 (2) MEMBERSHIP.—The members of the Con-  
24 sortium shall be representatives from relevant Fed-  
25 eral agencies, the National Laboratories, institutions



1 of higher education, multi-institutional collabora-  
2 tions, and other appropriate entities.

3 (3) ACTIVITIES.—The Consortium shall—

4 (A) develop and implement a multi-year  
5 program plan which includes the determination  
6 of technical goals and milestones and prioritizes  
7 leveraging of the user facilities, high-perform-  
8 ance computing capabilities, and expertise of  
9 the Department of Energy and the National  
10 Laboratories; and

11 (B) submit an annual report to the Sec-  
12 retary of Energy summarizing the activities of  
13 the Consortium which includes an evaluation of  
14 the Consortium's role in the achievement of  
15 technical milestones determined in subpara-  
16 graph (A).

17 (4) COORDINATION.—The Secretary of Energy  
18 shall ensure the coordination of, and avoid unneces-  
19 sary duplication of, the activities of the Consortium  
20 with the activities of other research entities of the  
21 Department, institutions of higher education, and  
22 the private sector.

23 (5) DURATION.—The Consortium established  
24 under this subsection shall receive support for a pe-

1       riod of not more than 5 years, subject to the avail-  
2       ability of appropriations.

3           (6) RENEWAL.—Upon the expiration of any pe-  
4       riod of support of the Consortium, the Secretary of  
5       Energy may renew support for the Consortium, on  
6       a merit-reviewed basis, for a period of not more than  
7       5 years.

8           (7) TERMINATION.—Consistent with the exist-  
9       ing authorities of the Department, the Secretary of  
10      Energy may terminate the Consortium for cause  
11      during the performance period.

12      (g) REPORTS.—Not later than 2 years after the date  
13      of enactment of this Act, and annually thereafter, the Sec-  
14      retary of Energy shall submit to Congress a report sum-  
15      marizing the activities, findings, and progress of the pro-  
16      gram.

17      (h) AUTHORIZATION OF APPROPRIATIONS.—There  
18      are authorized to be appropriated to the Secretary of En-  
19      ergy \$135,000,000 for each of fiscal years 2021 through  
20      2030 to carry out this section.

21      **SEC. 10116. CRITICAL MINERALS RESEARCH DATABASE.**

22      (a) IN GENERAL.—The Secretary of Energy, in con-  
23      sultation with the Director of the National Science Foun-  
24      dation, shall support the development of a web-based plat-  
25      form to provide access to a database of computed informa-

1 tion on known and predicted critical minerals and related  
2 mineral materials properties and computational tools in  
3 order to—

4 (1) accelerate breakthroughs in critical minerals  
5 discovery and design;

6 (2) strengthen the foundation for new mining  
7 technologies and advanced manufacturing; and

8 (3) drive the development of advanced materials  
9 for applications that span the Department's missions  
10 in energy, environment, and national security.

11 (b) PROGRAM.—In carrying out this section, the Sec-  
12 retary of Energy shall—

13 (1) conduct cooperative research with industry,  
14 academia, and other research institutions to facili-  
15 tate the design of novel materials, including critical  
16 materials and substitutes for critical materials;

17 (2) leverage existing high-performance com-  
18 puting systems to conduct high throughput calcula-  
19 tions and develop computation and data mining al-  
20 gorithms for the prediction of mineral properties, in-  
21 cluding a focus on critical minerals;

22 (3) leverage and support basic research in min-  
23 eralogy and mineral chemistry to enhance the under-  
24 standing, prediction, and manipulation of critical  
25 minerals; and

1           (4) manage and make available to researchers  
2           accessible, curated, standardized, secure, and privacy  
3           protected data sets from the public and private sec-  
4           tors for the purposes of critical minerals research  
5           and development activities.

6           (c) COORDINATION.—To carry out this section, the  
7           Secretary of Energy shall leverage programs, facilities,  
8           and activities across the Department.

9           (d) SECURITY.—In carrying out the activities author-  
10          ized by this section, the Secretary of Energy, in consulta-  
11          tion with the Director of the National Science Foundation,  
12          shall ensure proper security controls are in place to protect  
13          proprietary or sensitive data, as appropriate.

14       **SEC. 10117. ANALYSIS AND FORECASTING.**

15          (a) CAPABILITIES.—In order to evaluate existing crit-  
16          ical mineral policies and inform future actions that may  
17          be taken to avoid supply shortages, mitigate price vola-  
18          tility, and prepare for demand growth and other market  
19          shifts, the Secretary, in consultation with the Energy In-  
20          formation Administration, academic institutions, and oth-  
21          ers to maximize the application of existing competencies  
22          related to developing and maintaining computer-models  
23          and similar analytical tools, shall conduct and publish the  
24          results of an annual report that includes—

1           (1) as part of the annually published Mineral  
2           Commodity Summaries from the United States Geo-  
3           logical Survey, a comprehensive review of critical  
4           mineral production, consumption, and recycling pat-  
5           terns, including—

6                   (A) the quantity of each critical mineral  
7                   domestically produced during the preceding  
8                   year;

9                   (B) the quantity of each critical mineral  
10                  domestically consumed during the preceding  
11                  year;

12                  (C) market price data or other price data  
13                  for each critical mineral;

14                  (D) an assessment of—

15                   (i) critical mineral requirements to  
16                   meet the national security, energy, eco-  
17                   nomic, industrial, technological, and other  
18                   needs of the United States during the pre-  
19                   ceding year;

20                   (ii) the reliance of the United States  
21                   on foreign sources to meet those needs  
22                   during the preceding year; and

23                   (iii) the implications of any supply  
24                   shortages, restrictions, or disruptions dur-  
25                   ing the preceding year;

1 (E) the quantity of each critical mineral  
2 domestically recycled during the preceding year;

3 (F) the market penetration during the pre-  
4 ceding year of alternatives to each critical min-  
5 eral;

6 (G) a discussion of international trends as-  
7 sociated with the discovery, production, con-  
8 sumption, use, costs of production, prices, and  
9 recycling of each critical mineral as well as the  
10 development of alternatives to critical minerals;  
11 and

12 (H) such other data, analyses, and evalua-  
13 tions as the Secretary determines necessary to  
14 achieve the purposes of this section; and

15 (2) a comprehensive forecast, entitled the “An-  
16 nual Critical Minerals Outlook”, of projected critical  
17 mineral production, consumption, and recycling pat-  
18 terns, including—

19 (A) the quantity of each critical mineral  
20 projected to be domestically produced over the  
21 subsequent 1-year, 5-year, and 10-year periods;

22 (B) the quantity of each critical mineral  
23 projected to be domestically consumed over the  
24 subsequent 1-year, 5-year, and 10-year periods;

25 (C) an assessment of—

1 (i) critical mineral requirements to  
2 meet projected national security, energy,  
3 economic, industrial, technological, and  
4 other needs of the United States;

5 (ii) the projected reliance of the  
6 United States on foreign sources to meet  
7 those needs; and

8 (iii) the projected implications of po-  
9 tential supply shortages, restrictions, or  
10 disruptions;

11 (D) the quantity of each critical mineral  
12 projected to be domestically recycled over the  
13 subsequent 1-year, 5-year, and 10-year periods;

14 (E) the market penetration of alternatives  
15 to each critical mineral projected to take place  
16 over the subsequent 1-year, 5-year, and 10-year  
17 periods;

18 (F) a discussion of reasonably foreseeable  
19 international trends associated with the dis-  
20 covery, production, consumption, use, costs of  
21 production, and recycling of each critical min-  
22 eral as well as the development of alternatives  
23 to critical minerals; and

24 (G) such other projections relating to each  
25 critical mineral as the Secretary determines to

1           be necessary to achieve the purposes of this sec-  
2           tion.

3           (b) PROPRIETARY INFORMATION.—In preparing a re-  
4   port described in subsection (a), the Secretary shall en-  
5   sure, consistent with section 5(f) of the National Materials  
6   and Minerals Policy, Research and Development Act of  
7   1980 (30 U.S.C. 1604(f)), that—

8           (1) no person uses the information and data  
9           collected for the report for a purpose other than the  
10          development of or reporting of aggregate data in a  
11          manner such that the identity of the person or firm  
12          who supplied the information is not discernible and  
13          is not material to the intended uses of the informa-  
14          tion;

15          (2) no person discloses any information or data  
16          collected for the report unless the information or  
17          data has been transformed into a statistical or ag-  
18          gregate form that does not allow the identification of  
19          the person or firm who supplied particular informa-  
20          tion; and

21          (3) procedures are established to require the  
22          withholding of any information or data collected for  
23          the report if the Secretary determines that with-  
24          holding is necessary to protect proprietary informa-



1       tion, including any trade secrets or other confiden-  
2       tial information.

3       (c) AUTHORIZATION OF APPROPRIATIONS.—There  
4 are authorized to be appropriated to the Secretary  
5 \$4,000,000 for each of fiscal years 2021 through 2030  
6 to carry out this section.

7 **SEC. 10118. EDUCATION AND WORKFORCE.**

8       (a) WORKFORCE ASSESSMENT.—

9           (1) IN GENERAL.—Not later than 1 year and  
10       300 days after the date of enactment of this Act, the  
11       Secretary of Labor, in consultation with the Sec-  
12       retary, the Director of the National Science Founda-  
13       tion, the institutions of higher education described in  
14       paragraph (2), and employers in the critical minerals  
15       sector, shall submit to Congress an assessment of  
16       the domestic availability of technically trained per-  
17       sonnel necessary for critical mineral exploration, de-  
18       velopment, assessment, production, manufacturing,  
19       recycling, analysis, forecasting, education, and re-  
20       search, including an analysis of—

21           (A) skills that are in the shortest supply as  
22       of the date of the assessment;

23           (B) skills that are projected to be in short  
24       supply in the future;

1 (C) the demographics of the critical min-  
2 erals industry and how the demographics will  
3 evolve under the influence of factors such as an  
4 aging workforce;

5 (D) the effectiveness of training and edu-  
6 cation programs in addressing skills shortages;

7 (E) opportunities to hire locally for new  
8 and existing critical mineral activities;

9 (F) the sufficiency of personnel within rel-  
10 evant areas of the Federal Government for  
11 achieving the policies described in section 3 of  
12 the National Materials and Minerals Policy, Re-  
13 search and Development Act of 1980 (30  
14 U.S.C. 1602); and

15 (G) the potential need for new training  
16 programs to have a measurable effect on the  
17 supply of trained workers in the critical min-  
18 erals industry.

19 (2) INSTITUTIONS OF HIGHER EDUCATION.—  
20 The institutions of higher education described in this  
21 paragraph are—

22 (A) institutions of higher education with  
23 substantial expertise in mining; and

1 (B) institutions of higher education with  
2 significant expertise in minerals research, in-  
3 cluding fundamental research into alternatives.

4 (b) CURRICULUM STUDY.—

5 (1) IN GENERAL.—The Secretary and the Sec-  
6 retary of Labor shall jointly enter into an arrange-  
7 ment with the National Academy of Sciences and the  
8 National Academy of Engineering under which the  
9 Academies shall coordinate with the National  
10 Science Foundation on conducting a study—

11 (A) to design an interdisciplinary program  
12 on critical minerals that will support the critical  
13 mineral supply chain and improve the ability of  
14 the United States to increase domestic critical  
15 mineral exploration, development, production,  
16 manufacturing, and research, including funda-  
17 mental research into alternatives, and recycling;

18 (B) to address undergraduate and grad-  
19 uate education, especially to assist in the devel-  
20 opment of graduate level programs of research  
21 and instruction that lead to advanced degrees  
22 with an emphasis on the critical mineral supply  
23 chain or other positions that will increase do-  
24 mestic critical mineral exploration, development,  
25 production, manufacturing, and research, in-

1 including fundamental research into alternatives,  
2 and recycling;

3 (C) to develop guidelines for proposals  
4 from institutions of higher education with sub-  
5 stantial capabilities in the required disciplines  
6 for activities to improve the critical mineral  
7 supply chain and advance the capacity of the  
8 United States to increase domestic critical min-  
9 eral exploration, research, development, produc-  
10 tion, manufacturing, and recycling; and

11 (D) to outline criteria for evaluating per-  
12 formance and recommendations for the amount  
13 of funding that will be necessary to establish  
14 and carry out the program described in sub-  
15 section (c).

16 (2) REPORT.—Not later than 2 years after the  
17 date of enactment of this Act, the Secretary shall  
18 submit to Congress a description of the results of  
19 the study required under paragraph (1).

20 (c) PROGRAM.—

21 (1) ESTABLISHMENT.—The Secretary and the  
22 Secretary of Labor shall jointly conduct a competi-  
23 tive grant program under which institutions of high-  
24 er education may apply for and receive 4-year grants  
25 for—

1 (A) startup costs for newly designated fac-  
2 ulty positions in integrated critical mineral edu-  
3 cation, research, innovation, training, and work-  
4 force development programs consistent with  
5 subsection (b);

6 (B) internships, scholarships, and fellow-  
7 ships for students enrolled in programs related  
8 to critical minerals;

9 (C) equipment necessary for integrated  
10 critical mineral innovation, training, and work-  
11 force development programs; and

12 (D) research of critical minerals and their  
13 applications, particularly concerning the manu-  
14 facture of critical components vital to national  
15 security.

16 (2) RENEWAL.—A grant under this subsection  
17 shall be renewable for up to two 3-year terms based  
18 on performance criteria outlined under subsection  
19 (b)(1)(D).

20 **SEC. 10119. NATIONAL GEOLOGICAL AND GEOPHYSICAL**  
21 **DATA PRESERVATION PROGRAM.**

22 Section 351(k) of the Energy Policy Act of 2005 (42  
23 U.S.C. 15908(k)) is amended by striking “\$30,000,000  
24 for each of fiscal years 2006 through 2010” and inserting

1 “\$5,000,000 for each of fiscal years 2021 through 2030,  
2 to remain available until expended”.

3 **SEC. 10120. ADMINISTRATION.**

4 (a) IN GENERAL.—The National Critical Materials  
5 Act of 1984 (30 U.S.C. 1801 et seq.) is repealed.

6 (b) CONFORMING AMENDMENT.—Section 3(d) of the  
7 National Superconductivity and Competitiveness Act of  
8 1988 (15 U.S.C. 5202(d)) is amended in the first sentence  
9 by striking “, with the assistance of the National Critical  
10 Materials Council as specified in the National Critical Ma-  
11 terials Act of 1984 (30 U.S.C. 1801 et seq.),”.

12 (c) SAVINGS CLAUSES.—

13 (1) IN GENERAL.—Nothing in this Act or an  
14 amendment made by this Act modifies any require-  
15 ment or authority provided by—

16 (A) the matter under the heading “GEO-  
17 LOGICAL SURVEY” of the first section of the  
18 Act of March 3, 1879 (43 U.S.C. 31(a)); or

19 (B) the first section of Public Law 87–626  
20 (43 U.S.C. 31(b)).

21 (2) EFFECT ON DEPARTMENT OF DEFENSE.—

22 Nothing in this Act or an amendment made by this  
23 Act affects the authority of the Secretary of Defense  
24 with respect to the work of the Department of De-  
25 fense on critical material supplies in furtherance of

1 the national defense mission of the Department of  
2 Defense.

3 (3) SECRETARIAL ORDER NOT AFFECTED.—  
4 This Act shall not apply to any mineral described in  
5 Secretarial Order No. 3324, issued by the Secretary  
6 on December 3, 2012, in any area to which the  
7 order applies.

8 **Subtitle B—Critical Minerals**  
9 **Technology Development Support**

10 **SEC. 10121. TECHNOLOGY GRANTS.**

11 (a) IN GENERAL.—The Secretary shall establish a  
12 competitive grant program to conduct studies, research,  
13 and demonstration projects relating to the production of  
14 critical minerals, including—

15 (1) studies of mining, mineral extraction effi-  
16 ciency, and related processing technology;

17 (2) reclamation technology and practices for ac-  
18 tive mining operations;

19 (3) the development of remining systems and  
20 technologies that facilitate reclamation that fosters  
21 the recovery of resources at abandoned mine sites;

22 (4) investigations of mineral resource extraction  
23 methods that reduce environmental and human im-  
24 pacts;

1           (5) reducing dependence on foreign energy and  
2 mineral supplies;

3           (6) enhancing the competitiveness of United  
4 States energy and mineral technology exports;

5           (7) the extraction or processing of coinciding  
6 mineralization, including rare earth elements, within  
7 coal, coal processing byproduct, overburden or coal  
8 residue;

9           (8) enhancing technologies and practices related  
10 to mitigation of acid mine drainage, reforestation,  
11 and revegetation in the reclamation of land and  
12 water resources adversely affected by mining;

13           (9) meeting challenges of extreme mining condi-  
14 tions, such as deeper deposits or offshore or cold re-  
15 gion mining; and

16           (10) mineral economics, including analysis of  
17 supply chains, future mineral needs, and unconven-  
18 tional mining resources.

19       (b) MINIMUM AMOUNT FOR MINING SCHOOLS.—Of  
20 amounts expended pursuant to this section, not less than  
21 70 percent shall be expended to enhance and support min-  
22 ing and mineral engineering programs at mining schools  
23 in the United States.

24       (c) PUBLIC PARTICIPATION.—The Secretary shall  
25 consult with relevant stakeholders and provide a signifi-



1 cant opportunity for participation by undergraduate and  
2 graduate students at mining schools.

3 (d) AUTHORIZATION OF APPROPRIATIONS.—There is  
4 authorized to be appropriated to carry out this title  
5 \$10,000,000 for each of fiscal years 2021 through 2030.

6 (e) MINING SCHOOL.—In this title, the term “mining  
7 school” means a mining, metallurgical, or mineral engi-  
8 neering program or department accredited by the Accredi-  
9 tation Board for Engineering and Technology, Inc., that  
10 is located at an institution of higher education (as that  
11 term is defined in section 631(a) of the Higher Education  
12 Act of 1965 (20 U.S.C. 1132(a))) in the United States.

## 13 **Subtitle C—Management of Federal** 14 **Mineral Resources**

### 15 **SEC. 10131. ECONOMIC AND NATIONAL SECURITY ANAL-** 16 **YSIS.**

17 (a) RESOURCE ASSESSMENTS REQUIRED.—Federal  
18 lands and waters may not be withdrawn from entry under  
19 the mining laws or operation of the mineral leasing and  
20 mineral materials laws unless a quantitative and quali-  
21 tative geophysical and geological mineral resource assess-  
22 ment of the impacted area has been completed during the  
23 10-year period ending on the date of such withdrawal or  
24 has been certified as current by the Director of the United  
25 States Geological Survey.

1 (b) NEW INFORMATION.—If a resource assessment  
2 completed by the Director of the United States Geological  
3 Survey, including a resource assessment conducted pursu-  
4 ant to section 10112, shows that a previously undiscovered  
5 deposit is present in an area that has been withdrawn  
6 from entry under the mining laws or operation of the min-  
7 eral leasing and mineral materials laws pursuant to—

8 (1) section 204 of the Federal Land Policy and  
9 Management Act of 1976 (43 U.S.C. 1714), the  
10 Secretary shall update the existing Resource Man-  
11 agement Plan for such area; or

12 (2) chapter 3203 of title 54, United States  
13 Code, the Secretary shall provide recommendations  
14 to the President on appropriate measures to reduce  
15 unnecessary impacts that the withdrawal may have  
16 on critical mineral exploration, development, and  
17 other mining activities.

18 (c) RESOURCE MANAGEMENT PLANS.—Before a re-  
19 source management plan under the Federal Land Policy  
20 and Management Act of 1976 (43 U.S.C. 1701 et seq.)  
21 is updated or completed, the Secretary or Secretary of Ag-  
22 riculture, as applicable, shall, in consultation with the Di-  
23 rector of the United States Geological Survey:

24 (1) Review a quantitative and qualitative min-  
25 eral resource assessment that was completed or up-

1       dated during the 10-year period ending on the date  
2       the resource management plan is updated or com-  
3       pleted or is certified as current by the Director of  
4       the United States Geological Survey for the geo-  
5       graphic area affected by the resource management  
6       plan.

7               (2) In consultation with the Departments of  
8       Commerce and Defense, consider the economic, stra-  
9       tegic and national security value of mineral deposits  
10      in the impacted geographic area affected by the re-  
11      source management plan.

12      (d) PREVIOUSLY UNDISCOVERED DEPOSIT.—In this  
13      section, the term “previously undiscovered deposit” means  
14      a deposit that has been previously evaluated by the United  
15      States Geological Survey and found to be of low mineral  
16      potential but upon subsequent evaluation is determined to  
17      have economically recoverable quantities of a critical min-  
18      eral.

19      **SEC. 10132. CONGRESSIONAL APPROVAL.**

20      (a) MORATORIA.—Notwithstanding any other provi-  
21      sion of law, the Secretary may not declare a moratorium  
22      on issuing leases, claims, or permits on Federal lands, in-  
23      cluding on the Outer Continental Shelf, for the mining of  
24      critical minerals, or related activities unless such morato-  
25      rium is authorized by an Act of Congress.

1 (b) LIMITATION.—Notwithstanding any other provi-  
2 sion of law, the Secretary may not withdraw Federal lands  
3 and waters from entry under the mining laws or operation  
4 of the mineral leasing and mineral materials laws for the  
5 mining of critical minerals without congressional approval  
6 if such withdrawal—

7 (1) exceeds 5,000 acres in a single withdrawal;

8 or

9 (2) is of a parcel the exterior boundary of which  
10 is less than 50 miles away from the exterior bound-  
11 ary of another parcel that was withdrawn during the  
12 1-year period ending on the date of withdrawal of  
13 the parcel at issue.

Page 8, in the table of contents, strike the matter relating to section 10101 and all that follows through the matter relating to 10142, and replace with the following:

Sec. 10101. Definitions.

Subtitle A—Critical Mineral Production

Sec. 10110. Policy.

Sec. 10111. Critical mineral designations.

Sec. 10112. Resource assessment.

Sec. 10113. Permitting.

Sec. 10114. Federal Register process.

Sec. 10115. Department of Energy Critical Minerals Research and Development Program.

Sec. 10116. Critical minerals research database.

Sec. 10117. Analysis and forecasting.

Sec. 10118. Education and workforce.

Sec. 10119. National geological and geophysical data preservation program.

Sec. 10120. Administration.

Subtitle B—Critical Minerals Technology Development Support

Sec. 10121. Technology grants.

Subtitle C—Management of Federal Mineral Resources

Sec. 10131. Economic and national security analysis.

Sec. 10132. Congressional approval.

