

119TH CONGRESS
1ST SESSION

S. _____

To amend the Infrastructure Investment and Jobs Act to authorize the use of remaining funds under the Broadband Equity, Access, and Deployment Program for competitive subgrants to support the success of the broadband deployment projects funded by that program, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. WICKER (for himself and Mrs. CAPITO) introduced the following bill; which was read twice and referred to the Committee on

A BILL

To amend the Infrastructure Investment and Jobs Act to authorize the use of remaining funds under the Broadband Equity, Access, and Deployment Program for competitive subgrants to support the success of the broadband deployment projects funded by that program, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Supporting U.S. Crit-
3 ical Connectivity and Economic Strategy and Security for
4 BEAD Act” or the “SUCCESS for BEAD Act”.

5 **SEC. 2. FINDINGS.**

6 Congress finds the following:

7 (1) Grant funds allocated to an eligible entity
8 under section 60102 of the Infrastructure Invest-
9 ment and Jobs Act (47 U.S.C. 1702) that remain
10 after the eligible entity’s final proposal is approved
11 should be used to enhance and sustain the success
12 of the broadband deployment projects approved pur-
13 suant to that proposal.

14 (2) Strengthening the telecommunication infra-
15 structure of the United States, including high-capac-
16 ity fiber and network interconnection, and devel-
17 oping an adequate, targeted workforce are essential
18 to deploying and scaling artificial intelligence (com-
19 monly referred to as “AI”) technologies, which are
20 critical for maintaining United States leadership in
21 emerging technologies.

22 (3) Federal broadband investments to mod-
23 ernize and harden the networks of the United
24 States, including the 9–1–1 networks, are also vital
25 for public safety and national security.

1 (4) The People’s Republic of China is investing
2 heavily in AI and advanced network infrastructure
3 and workforce training, presenting a geopolitical and
4 technological challenge to the leadership of the
5 United States that warrants action.

6 **SEC. 3. BEAD SUBGRANTS FOR PUBLIC SAFETY, NATIONAL**
7 **SECURITY, WORKFORCE DEVELOPMENT, AND**
8 **MEANINGFUL USE OF AI-SUPPORTIVE TELE-**
9 **COMMUNICATIONS INFRASTRUCTURE.**

10 (a) IN GENERAL.—Section 60102 of the Infrastruc-
11 ture Investment and Jobs Act (47 U.S.C. 1702) is amend-
12 ed—

13 (1) in subsection (a)(2)—

14 (A) by redesignating subparagraphs (I)
15 through (N) as subparagraphs (P) through (U),
16 respectively;

17 (B) by redesignating subparagraph (H) as
18 subparagraph (N);

19 (C) by redesignating subparagraph (G) as
20 subparagraph (K);

21 (D) by redesignating subparagraphs (E)
22 and (F) as subparagraphs (H) and (I), respec-
23 tively;

1 (E) by redesignating subparagraphs (A)
2 through (D) as subparagraphs (C) through (F),
3 respectively;

4 (F) by inserting before subparagraph (C),
5 as so redesignated, the following:

6 “(A) 9–1–1 REQUEST FOR EMERGENCY AS-
7 SISTANCE.—The term ‘9–1–1 request for emer-
8 gency assistance’ means a communication, such
9 as voice, text, picture, multimedia, or any other
10 type of data, that is sent to an emergency com-
11 munications center for the purpose of request-
12 ing emergency assistance.

13 “(B) ARTIFICIAL INTELLIGENCE.—The
14 term ‘artificial intelligence’ has the meaning
15 given the term in section 5002 of the National
16 Artificial Intelligence Initiative Act of 2020 (15
17 U.S.C. 9401).”;

18 (G) by inserting after subparagraph (F),
19 as so redesignated, the following:

20 “(G) COMMONLY ACCEPTED STAND-
21 ARDS.—The term ‘commonly accepted stand-
22 ards’ means the technical standards followed by
23 the communications industry for network, de-
24 vice, and Internet Protocol connectivity that—

25 “(i) enable interoperability; and

1 “(ii) are—

2 “(I) developed and approved by a
3 standards development organization
4 that is accredited by an American
5 standards body (such as the American
6 National Standards Institute) or an
7 equivalent international standards
8 body in a process that—

9 “(aa) is open for participa-
10 tion by any person; and

11 “(bb) provides for a conflict
12 resolution process;

13 “(II) subject to an open comment
14 and input process before being final-
15 ized by the standards development or-
16 ganization;

17 “(III) consensus-based; and

18 “(IV) made publicly available
19 once approved.”;

20 (H) by inserting after subparagraph (I), as
21 so redesignated, the following:

22 “(J) EMERGENCY COMMUNICATIONS CEN-
23 TER.—

24 “(i) IN GENERAL.—The term ‘emer-
25 gency communications center’ means—

6

1 “(I) a facility that—

2 “(aa) is designated to re-
3 ceive a 9–1–1 request for emer-
4 gency assistance; and

5 “(bb) performs 1 or more of
6 the functions described in clause
7 (ii); or

8 “(II) a public safety answering
9 point, as defined in section 222 of the
10 Communications Act of 1934 (47
11 U.S.C. 222).

12 “(ii) FUNCTIONS DESCRIBED.—The
13 functions described in this clause are the
14 following:

15 “(I) Processing and analyzing 9–
16 1–1 requests for emergency assistance
17 and information and data related to
18 such requests.

19 “(II) Dispatching appropriate
20 emergency response providers.

21 “(III) Transferring or exchang-
22 ing 9–1–1 requests for emergency as-
23 sistance and information and data re-
24 lated to such requests to or with 1 or
25 more other emergency communica-

1 tions centers or emergency response
2 providers.

3 “(IV) Analyzing any communica-
4 tions received from emergency re-
5 sponse providers.

6 “(V) Supporting incident com-
7 mand functions.”;

8 (I) by inserting after subparagraph (K), as
9 so redesignated, the following:

10 “(L) INTEROPERABILITY.—The term
11 ‘interoperability’ means the capability of emer-
12 gency communications centers to receive 9–1–1
13 requests for emergency assistance and informa-
14 tion and data related to such requests, such as
15 location information and callback numbers from
16 a person initiating the request, then process
17 and share the 9–1–1 requests for emergency as-
18 sistance and information and data related to
19 such requests with other emergency commu-
20 nications centers and emergency response pro-
21 viders without the need for proprietary inter-
22 faces and regardless of jurisdiction, equipment,
23 device, software, service provider, or other rel-
24 evant factors.

1 “(M) INTERNET EXCHANGE POINT.—The
2 term ‘internet exchange point’ means a physical
3 building and related infrastructure that—

4 “(i) enables internet service providers,
5 transport networks, mobile networks, con-
6 tent delivery networks, artificial intel-
7 ligence systems, and other network opera-
8 tors to directly interconnect and exchange
9 data traffic among their networks;

10 “(ii) provides neutral, nondiscrim-
11 inatory access to all network operators in
12 good standing under published and reason-
13 able rates and terms with no requirement
14 for the purchase of network services as a
15 condition of access; and

16 “(iii) provides access to a shared
17 internet exchange (commonly known as an
18 ‘IX’) switching fabric that enables partici-
19 pating networks to establish Border Gate-
20 way Protocol sessions, whether directly be-
21 tween participants or through a shared
22 route server.”; and

23 (J) by inserting after subparagraph (N),
24 as so redesignated, the following:

1 “(O) NEXT GENERATION 9–1–1.—The
2 term ‘Next Generation 9–1–1’ means an Inter-
3 net Protocol-based system that—

4 “(i) ensures interoperability;

5 “(ii) is secure;

6 “(iii) employs commonly accepted
7 standards;

8 “(iv) enables emergency communica-
9 tions centers to receive, process, and ana-
10 lyze all types of 9–1–1 requests for emer-
11 gency assistance;

12 “(v) acquires and integrates addi-
13 tional information useful to handling 9–1–
14 1 requests for emergency assistance; and

15 “(vi) supports sharing information re-
16 lated to 9–1–1 requests for emergency as-
17 sistance among emergency communications
18 centers and emergency response pro-
19 viders.”;

20 (2) in subsection (c)(5)(C)—

21 (A) by striking clause (ii);

22 (B) by striking “REALLOCATION TO
23 OTHER ELIGIBLE ENTITIES.—” and all that fol-
24 lows through “The Assistant Secretary” and in-
25 serting “REALLOCATION TO OTHER ELIGIBLE

1 ENTITIES DUE TO APPLICATION FAILURES.—

2 The Assistant Secretary”;

3 (C) by redesignating subclauses (I) and
4 (II) as clauses (i) and (ii), respectively, and ad-
5 justing the margins accordingly; and

6 (D) in clause (ii), as so redesignated, by
7 striking “subclause (I) of this clause” and in-
8 serting “clause (i) of this subparagraph”;

9 (3) in subsection (e)(4)(A)(i), in the matter pre-
10 ceding subclause (I), by striking “approvals” and in-
11 serting “approves”; and

12 (4) in subsection (f)—

13 (A) by striking paragraphs (3) through
14 (6);

15 (B) by redesignating paragraphs (1) and
16 (2) as subparagraphs (A) and (B), respectively,
17 and adjusting the margins accordingly;

18 (C) in subparagraph (A), as so redesign-
19 ated, by adding “and” at the end;

20 (D) in subparagraph (B), as so redesign-
21 ated, by striking the semicolon at the end and
22 inserting a period;

23 (E) by striking “An eligible entity may use
24 grant funds received under this section to com-

1 “(ee) facilities that house
2 workforce development programs
3 narrowly targeted to address
4 worker shortages in the tele-
5 communications, cybersecurity,
6 artificial intelligence, and elec-
7 trical distribution sectors, to the
8 extent such programs promote or
9 facilitate the deployment of
10 broadband infrastructure;

11 “(ff) submarine cable sys-
12 tems;

13 “(gg) carrier-neutral sub-
14 marine cable landing stations;

15 “(hh) mobile wireless com-
16 munications infrastructure on
17 educational facilities, including
18 those on Tribal lands, that in-
19 creases coverage, capacity, resil-
20 iency, or security capabilities of
21 connectivity for public safety pur-
22 poses; or

23 “(ii) a combination of infra-
24 structure described in any of
25 items (aa) through (hh);

1 “(II) the planning and implemen-
2 tation of workforce development pro-
3 grams narrowly targeted to address
4 worker shortages in the telecommuni-
5 cations, artificial intelligence, and
6 electrical distribution sectors, to the
7 extent such programs promote or fa-
8 cilitate the deployment or meaningful
9 use of broadband infrastructure;

10 “(III) the planning, implementa-
11 tion, or maintenance of Next Genera-
12 tion 9–1–1 in emergency communica-
13 tions centers;

14 “(IV) data collection, mapping,
15 and planning;

16 “(V) resources for tools, per-
17 sonnel, systems, training, or technical
18 assistance to accelerate, streamline, or
19 improve the efficiency of permitting
20 processes necessary for broadband de-
21 ployment; and

22 “(VI) any use determined nec-
23 essary by the Assistant Secretary to
24 facilitate the goals of the Program.

1 “(ii) REMAINING AMOUNTS.—The
2 term ‘remaining amounts’, with respect to
3 the allocations to an eligible entity under
4 subsection (c), means any amounts remain-
5 ing from those allocations upon approval of
6 the eligible entity’s final proposal under
7 subsection (e)(4).

8 “(B) USE OF REMAINING AMOUNTS.—

9 “(i) SUBGRANT PROGRAM.—Notwith-
10 standing any other provision of this sec-
11 tion, an eligible entity shall use all remain-
12 ing amounts to establish a competitive
13 subgrant program to support 1 or more el-
14 igible projects.

15 “(ii) NONCOMPETITIVE SUBGRANTS
16 TO WORKFORCE DEVELOPMENT BOARDS.—
17 If an eligible entity wishing to support an
18 eligible project described in subparagraph
19 (A)(i)(II) (relating to workforce develop-
20 ment programs) has a workforce develop-
21 ment board, the eligible entity may satisfy
22 clause (i) of this subparagraph by award-
23 ing a subgrant to the workforce develop-
24 ment board without conducting a competi-
25 tive subgrant program.

1 “(C) PROHIBITED USE OF FUNDS.—A
2 subgrant awarded under subparagraph (B) may
3 not be used for the construction, operation, or
4 expansion of a data center that has the primary
5 purpose of processing and storing digital infor-
6 mation.

7 “(D) PRIORITY.—In awarding subgrants
8 under subparagraph (B), an eligible entity shall
9 prioritize proposals that—

10 “(i) develop infrastructure described
11 in subparagraph (A) in 1 or more regions
12 that are unserved or underserved by such
13 infrastructure, including on Tribal lands;

14 “(ii) are strategically critical for pub-
15 lic safety, national security, or economic
16 development;

17 “(iii) produce a qualified workforce to
18 support the telecommunications, cybersecu-
19 rity, artificial intelligence, and electrical
20 distribution sectors, to the extent such pro-
21 posals promote or facilitate the deployment
22 or meaningful use of broadband infrastruc-
23 ture;

24 “(iv) directly support enhanced
25 connectivity to, or network capabilities of,

1 military installations, national laboratories,
2 or other relevant Federal facilities, includ-
3 ing facilities of the National Oceanic and
4 Atmospheric Administration;

5 “(v) advance the cybersecurity or
6 meaningful use of projects for which such
7 subgrants are awarded;

8 “(vi) support direct network inter-
9 connection between edge artificial intel-
10 ligence data centers and local networks, in-
11 cluding internet service providers, mobile
12 networks, and research and education net-
13 works;

14 “(vii) enhance the network capacity,
15 resiliency, hardening, or geographic reach
16 of telecommunications backbone infrastruc-
17 ture; and

18 “(viii) accomplish 2 or more of the ob-
19 jectives described in clauses (i) through
20 (vii).

21 “(E) LIMITED OPERATIONAL EXPENSES.—

22 A subgrant awarded under subparagraph (B)
23 may include funding for reasonable projected
24 operations and maintenance expenses for a pe-
25 riod of 24 months after completion of the

1 project, not to exceed 15 percent of the amount
2 of the subgrant.

3 “(F) MATCHING REQUIREMENT.—

4 “(i) AMOUNT.—Notwithstanding any
5 other provision of this section, in awarding
6 subgrants under subparagraph (B), other
7 than a subgrant awarded for an eligible ac-
8 tivity described in subparagraph
9 (A)(i)(III), an eligible entity shall require a
10 subgrantee to provide a contribution of not
11 less than 25 percent of project costs.

12 “(ii) WAIVER.—Upon request by a
13 subgrantee, an eligible entity may reduce
14 or waive the required matching contribu-
15 tion under clause (i).

16 “(iii) SOURCE OF MATCH.—A match-
17 ing contribution under clause (i) may in-
18 clude in-kind contributions made by a sub-
19 grantee or a third-party entity.

20 “(G) INTERSTATE PROJECTS.—Two or
21 more eligible entities may execute memoranda
22 of agreement between or among one another to
23 facilitate subgrant awards under subparagraph
24 (B) for eligible projects that span 2 or more eli-
25 gible entities.

1 “(H) CHALLENGE PROCESS FOR ELIGIBLE
2 FIBER INFRASTRUCTURE PROJECTS.—

3 “(i) IN GENERAL.—A subgrant
4 awarded by an eligible entity under sub-
5 paragraph (B) for the construction of lit or
6 dark fiber that is to be made available on
7 a wholesale basis, as described in subpara-
8 graph (A)(i)(I), shall be subject to a man-
9 datory public challenge process adminis-
10 tered by the eligible entity.

11 “(ii) PUBLIC NOTICE AND CHAL-
12 LENGE WINDOW.—Before awarding a
13 subgrant described in clause (i), an eligible
14 entity shall—

15 “(I) make the proposed project
16 routes and other relevant attributes
17 available on a publicly accessible
18 website maintained by the eligible en-
19 tity for a period of not less than 14
20 days (in this subparagraph referred to
21 as the ‘public notice and challenge
22 window’); and

23 “(II) allow for the submission of
24 challenges during the public notice
25 and challenge window on the grounds

1 that the proposed project constitutes
2 overbuilding.

3 “(iii) CRITERIA FOR VALID CHAL-
4 LENGES.—A proposed project described in
5 clause (i) may only be challenged under
6 clause (ii)(II) if the challenger dem-
7 onstrates that—

8 “(I) a substantially similar fiber
9 route already exists between defined
10 locations;

11 “(II) the existing fiber route is
12 available to wholesale customers on
13 comparable terms and conditions, in-
14 cluding price, capacity, and service
15 level agreements;

16 “(III) the existing infrastructure
17 meets the same intended use as the
18 proposed project, including latency,
19 resiliency, and interconnection capa-
20 bilities; and

21 “(IV) the proposed project does
22 not substantially improve resilient, re-
23 dundant, or alternative connection
24 paths.

25 “(iv) DETERMINATION.—

1 “(I) IN GENERAL.—Upon receipt
2 of a timely challenge under clause
3 (ii)(II), an eligible entity shall conduct
4 a review and issue a final determina-
5 tion as to the validity of the challenge
6 not later than 30 days after the close
7 of the public notice and challenge win-
8 dow.

9 “(II) FACTORS FOR DETERMINA-
10 TION.—An eligible entity shall base a
11 final determination under subclause
12 (I) on a holistic review of route simi-
13 larity, capacity, availability, service of-
14 ferings, pricing, and strategic jus-
15 tification.

16 “(v) TRANSPARENCY REQUIRED.—An
17 eligible entity shall publish a summary of
18 each challenge received under clause
19 (ii)(II) and the corresponding final deter-
20 mination issued under clause (iv)(I), in-
21 cluding the rationale for any decision to
22 uphold or reject the challenge.

23 “(vi) LIMITATION.—The existence of
24 any fiber route that is not made available
25 on reasonable wholesale terms, or that does

1 not meet the intended purpose or technical
2 performance of the proposed project, shall
3 not be grounds for a valid challenge under
4 clause (ii)(II).

5 “(I) RULE OF CONSTRUCTION REGARDING
6 NEXT GENERATION 9–1–1.—Nothing in this
7 paragraph, including the authority to use re-
8 maining amounts for the planning, implementa-
9 tion, or maintenance of Next Generation 9–1–
10 1 in emergency communications centers as de-
11 scribed in subparagraph (A)(i)(III), shall be
12 construed to expand or otherwise modify the
13 definition of the term ‘originating service pro-
14 vider’ in section 9.28 of title 47, Code of Fed-
15 eral Regulations (or any successor regulation).

16 “(J) RULE OF CONSTRUCTION REGARDING
17 UNSPENT FUNDS.—Nothing in this section shall
18 be construed to limit or prevent an eligible enti-
19 ty from returning to the Treasury any amounts
20 allocated to the eligible entity under subsection
21 (c) that are not spent.”.

22 (b) WAIVER ON BUILD AMERICA, BUY AMERICA.—
23 Section 60102(i) of the Infrastructure Investment and
24 Jobs Act (47 U.S.C. 1702(i)) is amended—

1 (1) by striking “The Assistant Secretary” and
2 inserting the following:

3 “(1) AUTHORITY TO ISSUE REGULATIONS.—
4 The Assistant Secretary”; and

5 (2) by adding at the end the following:

6 “(2) APPLICABILITY OF BUILD AMERICA BUY
7 AMERICA ACT WAIVER.—The notice of final waiver
8 issued by the Assistant Secretary, titled ‘Limited
9 General Applicability Nonavailability Waiver of the
10 Buy America Domestic Content Procurement Pref-
11 erence as Applied to Recipients of Broadband Eq-
12 uity, Access, and Deployment Program’, effective on
13 February 22, 2024, may not be revised or re-
14 scinded.”.

15 (c) GUIDANCE TO ELIGIBLE ENTITIES.—

16 (1) IN GENERAL.—Not later than 30 days after
17 the date of enactment of this Act, the Assistant Sec-
18 retary of Commerce for Communications and Infor-
19 mation shall issue any guidance necessary to imple-
20 ment the amendments made by subsection (a), con-
21 sistent with the purposes of this Act.

22 (2) COORDINATION WITH SECRETARY OF
23 LABOR.—In the case of guidance described in para-
24 graph (1) that pertains to workforce development
25 programs, the Assistant Secretary of Commerce for

1 Communications and Information shall develop the
2 guidance in coordination with the Secretary of
3 Labor.

4 (3) APPLICATION OF UNIFORM GUIDANCE.—
5 The guidance issued under paragraph (1) shall in-
6 corporate and apply, to the maximum extent prac-
7 ticable, the requirements of part 200 of title 2, Code
8 of Federal Regulations (commonly referred to as the
9 “Uniform Administrative Requirements, Cost Prin-
10 ciples, and Audit Requirements for Federal
11 Awards”).

12 (d) COORDINATION OF PROJECTS RELATING TO THE
13 PLANNING, IMPLEMENTATION, OR MAINTENANCE OF
14 NEXT GENERATION 9–1–1.—Paragraph (2) of section
15 60102(f) of the Infrastructure Investment and Jobs Act
16 (47 U.S.C. 1702(f)), as amended by subsection (a), is
17 amended by adding at the end the following:

18 “(K) COORDINATION OF PROJECTS RELAT-
19 ING TO THE PLANNING, IMPLEMENTATION, OR
20 MAINTENANCE OF NEXT GENERATION 9–1–1.—

21 “(i) DUTIES OF ASSISTANT SEC-
22 RETARY WITH RESPECT TO NEXT GENERA-
23 TION 9–1–1.—The Assistant Secretary, act-
24 ing through the Associate Administrator
25 for Public Safety Communications, shall—

1 “(I) take actions, in coordination
2 with State points of contact described
3 in clause (ii)(II) as applicable, to im-
4 prove coordination and communication
5 with respect to the implementation of
6 Next Generation 9–1–1;

7 “(II) develop, collect, and dis-
8 seminate information concerning the
9 practices, procedures, and technology
10 used in the implementation of Next
11 Generation 9–1–1;

12 “(III) advise and assist eligible
13 entities in the preparation of certifi-
14 cations required under clause (ii);

15 “(IV) provide technical assistance
16 to eligible entities that choose to use
17 remaining amounts in support of ef-
18 forts to explore efficiencies related to
19 Next Generation 9–1–1;

20 “(V) review and approve or dis-
21 approve the proposed use of remain-
22 ing amounts for eligible projects de-
23 scribed in subparagraph (A)(i)(III);
24 and

1 “(VI) oversee the use of sub-
2 grants awarded under subparagraph
3 (B) for eligible projects described in
4 subparagraph (A)(i)(III).

5 “(ii) COORDINATION REQUIRED.—To
6 the extent that an eligible entity proposes
7 to use remaining amounts for the plan-
8 ning, implementation, or maintenance of
9 Next Generation 9–1–1 in emergency com-
10 munications centers as described in sub-
11 paragraph (A)(i)(III), the eligible entity
12 shall submit to the Assistant Secretary a
13 certification that the eligible entity—

14 “(I) has coordinated the pro-
15 posed use with each emergency com-
16 munications center located within the
17 jurisdiction of the eligible entity;

18 “(II) has designated a single offi-
19 cer or governmental body to serve as
20 the point of contact to coordinate the
21 implementation of Next Generation 9–
22 1–1 for that eligible entity, except
23 that such designation need not vest
24 such officer or governmental body
25 with direct legal authority to imple-

1 ment Next Generation 9–1–1 or to
2 manage emergency communications
3 operations; and

4 “(III) has developed a plan for
5 the coordination and implementation
6 of Next Generation 9–1–1 that—

7 “(aa) ensures interoper-
8 ability by requiring the use of
9 commonly accepted standards;

10 “(bb) ensures reliability;

11 “(cc) enables emergency
12 communications centers to proc-
13 ess, analyze, and store multi-
14 media, data, and other informa-
15 tion;

16 “(dd) incorporates cyberse-
17 curity tools, including intrusion
18 detection and prevention meas-
19 ures;

20 “(ee) includes strategies for
21 coordinating cybersecurity infor-
22 mation sharing between Federal,
23 State, Tribal, and local govern-
24 ment partners;

1 “(ff) uses open and competi-
2 tive request for proposal proc-
3 esses, including through shared
4 government procurement vehicles,
5 for deployment of Next Genera-
6 tion 9–1–1;

7 “(gg) documents how input
8 was received and accounted for
9 from relevant rural and urban
10 emergency communications cen-
11 ters, regional authorities, local
12 authorities, and Tribal authori-
13 ties;

14 “(hh) includes 1 or more
15 governance bodies, either by cre-
16 ation of 1 or more new, or use of
17 1 or more existing, bodies, for
18 the deployment of Next Genera-
19 tion 9–1–1 that ensures full no-
20 tice and opportunity for partici-
21 pation by relevant stakeholders;

22 “(ii) creates efficiencies re-
23 lated to Next Generation 9–1–1
24 functions, including cybersecurity
25 and the virtualization and shar-

1 ing of infrastructure, equipment,
2 and services; and

3 “(jj) utilizes an effective,
4 competitive approach to estab-
5 lishing authentication,
6 credentialing, secure connections,
7 and access in deploying Next
8 Generation 9-1-1, including
9 by—

10 “(AA) requiring certifi-
11 cate authorities to be capa-
12 ble of cross-certification with
13 other authorities;

14 “(BB) avoiding risk of
15 a single point of failure or
16 vulnerability; and

17 “(CC) adhering to Fed-
18 eral agency best practices
19 such as those promulgated
20 by the National Institute of
21 Standards and Tech-
22 nology.”.