## AMENDMENT IN THE NATURE OF A SUBSTITUTE TO THE COMMITTEE PRINT OFFERED BY Ms. Edwards

Strike all after the enacting clause and insert the following:

1	SECTION 1.	CHODT	THE PRINTER
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- 2 This Act may be cited as the "Natural Hazards Risk
- 3 Reduction Act of 2011".
- 4 SEC, 2. FINDINGS.
- 5 Congress finds the following:
- 6 (1) The United States faces significant risks
- 7 from many types of natural hazards, including
- 8 earthquakes, hurricanes, tornadoes, wildfires, and
- 9 floods. Increasing numbers of Americans are living
- in areas prone to these hazards.
- 11 (2) Earthquakes occur without warning and can
- have devastating effects. According to the U.S. Geo-
- 13 logical Survey, two recent earthquakes, the
- 14 Northridge Earthquake in 1994, and the Loma
- 15 Prieta Earthquake in 1989, killed nearly 100 people,
- injured 12,757, and caused \$33 billion in damages.
- 17 Nearly all States face some level of seismic risk.

1	Twenty-six urban areas in 14 States have a signifi-
2	cant seismic risk.
3	(3) Severe weather is the most costly natural
4	hazard, measured on a per year basis. According to
5	data from the National Weather Service over the
6	last 10 years, tornadoes, thunderstorms, and hurri-
7	canes have caused an average of 226 fatalities and
8	\$16 billion of property damage per year. The $2005$
9	hurricane season was one of the most destructive in
10	United States history, killing 1,836 people, and
11	causing \$80 billion in damage.
12	(4) The United States Fire Administration re-
13	ports that 38 percent of new home construction in
14	2002 was in areas adjacent to, or intermixed with,
15	wildlands. Fires in the wildland-urban interface are
16	costly. For example, the 2007 California Witch fire
17	alone caused \$1.3 billion in insured property losses,
18	according to the Insurance Services Office (ISO). In
19	addition, Government Accountability Office reported
20	in 2007 that the Federal spending for wildfire sup-
21	pression between 2001 and 2005 was, on average,
22	\$2.9 billion per year.
23	(5) Developing better knowledge about natural
24	hazard phenomena and their effects is crucial to as-
25	sessing the risks these hazards pose to communities.

1	Instrumentation, monitoring, and data gathering to
2	characterize earthquakes and wind events are impor-
3	tant activities to increase this knowledge.
4	(6) Current building codes and standards can
5	mitigate the damages caused by natural hazards.
6	The Institute for Business and Home Safety esti-
7	mated that the \$19 billion in damage caused by
8	Hurricane Andrew in 1994 could have been reduced
9	by half if such codes and standards were in effect.
10	Research for the continuous improvement of building
11	codes, standards, and design practices—and for de-
12	veloping methods to retrofit existing structures—is
13	crucial to mitigating losses from natural hazards.
14	(7) Since its creation in 1977, the National
15	Earthquake Hazards Reduction Program (NEHRP)
16	has supported research to develop seismic codes,
17	standards, and building practices that have been
18	widely adopted. The NEHRP Recommended Provi-
19	sions for Seismic Regulations for New Buildings and
20	Other Structures and the Guidance for Seismic Per-
21	formance Assessment of Buildings are two examples.
22	(8) Research to understand the institutional,
23	social, behavioral, and economic factors that influ-
24	ence how households, businesses, and communities
25	perceive risk and prepare for natural hazards, and

1	how well they recover after a disaster, can increase
2	the implementation of risk mitigation measures.
3	(9) A major goal of the Federal natural haz-
4	ards-related research and development effort should
5	be to reduce the loss of life and damage to commu-
6	nities and infrastructure through increasing the
7	adoption of hazard mitigation measures.
8	(10) Research, development, and technology
9	transfer to secure infrastructure is vitally important.
10	Infrastructure that supports electricity, transpor-
11	tation, drinking water, and other services is vital im-
12	mediately after a disaster, and their quick return to
13	function speeds the economic recovery of a disaster-
14	impacted community.
15	TITLE I—EARTHQUAKES
16	SEC. 101. SHORT TITLE.
17	This title may be cited as the "National Earthquake
18	Hazards Reduction Program Reauthorization Act of
19	2011".
20	SEC. 102. FINDINGS.
21	Section 2 of the Earthquake Hazards Reduction Act
22	of 1977 (42 U.S.C. 7701) is repealed.

1	SEC. 103. DEFINITIONS.
2	Section 4 of the Earthquake Hazards Reduction Act
3	of 1977 (42 U.S.C. 7703) is amended by striking para-
4	graphs (8) and (9).
5	SEC. 104. NATIONAL EARTHQUAKE HAZARDS REDUCTION
6	PROGRAM.
7	Section 5 of the Earthquake Hazards Reduction Act
8	of 1977 (42 U.S.C. 7704) is amended—
9	(1) in subsection (a)—
10	(A) by amending paragraph (2) to read as
11	follows:
12	"(2) Program activities.—The activities of
13	the Program shall be designed to—
14	"(A) research and develop effective meth-
15	ods, tools, and technologies to reduce the risk
16	posed by earthquakes to the built environment,
17	especially to lessen the risk to existing struc-
18	tures and lifelines;
19	"(B) improve the understanding of earth-
20	quakes and their effects on households, busi-
21	nesses, communities, buildings, structures, and
22	lifelines, through interdisciplinary and multi-
23	disciplinary research that involves engineering,
24	natural sciences, and social sciences; and
25	"(C) facilitate the adoption of earthquake
26	risk reduction measures by households, busi-

1	nesses, communities, local, State, and Federa
2	governments, national standards and mode
3	building code organizations, architects and engi
4	neers, building owners, and others with a role
5	in planning for disasters and planning, con
6	structing, retrofitting, and insuring buildings
7	structures, and lifelines through—
8	"(i) grants, contracts, cooperative
9	agreements, and technical assistance;
10	"(ii) development of standards, guide
11	lines, voluntary consensus standards, and
12	other design guidance for earthquake haz
13	ards risk reduction for buildings, struc
14	tures, and lifelines;
15	"(iii) outreach and information dis
16	semination to communities on location-spe
17	cific earthquake hazards and methods to
18	reduce the risks from those hazards; and
19	"(iv) development and maintenance of
20	a repository of information, including tech
21	nical data, on seismic risk and hazards re
22	duction."; and
23	(B) by striking paragraphs (3) through
24	(5);

1	(2) by amending subsection (b) to read as fol-
2	lows:
3	"(b) Responsibilities of Program Agencies.—
4	"(1) Lead agency.—The National Institute of
5	Standards and Technology (in this section referred
6	to as the 'Institute') shall be responsible for plan-
7	ning and coordinating the Program. In carrying out
8	this paragraph, the Director of the Institute shall—
9	"(A) ensure that the Program includes the
10	necessary components to promote the imple-
11	mentation of earthquake hazards risk reduction
12	measures by households, businesses, commu-
13	nities, local, State, and Federal governments,
14	national standards and model building code or-
15	ganizations, architects and engineers, building
16	owners, and others with a role in preparing for
17	disasters, or the planning, constructing, retro-
18	fitting, and insuring of buildings, structures,
19	and lifelines;
20	"(B) support the development of perform-
21	ance-based seismic engineering tools, and work
22	with the appropriate groups to promote the
23	commercial application of such tools, through
24	earthquake-related building codes, standards,
25	and construction practices;

1	"(C) ensure the use of social science re-
2	search and findings in informing research and
3	technology development priorities, commu-
4	nicating earthquake risks to the public, devel-
5	oping earthquake risk mitigation strategies, and
6	preparing for earthquake disasters;
7	"(D) coordinate all Federal post-earth-
8	quake investigations; and
9	"(E) when warranted by research or inves-
10	tigative findings, issue recommendations for
11	changes in model codes to the relevant code de-
12	velopment organizations, and report back to
13	Congress on whether such recommendations
14	were adopted.
15	"(2) National institute of standards and
16	TECHNOLOGY.—In addition to the lead agency re-
17	sponsibilities described under paragraph (1), the In-
18	stitute shall be responsible for carrying out research
19	and development to improve building codes and
20	standards and practices for buildings, structures,
21	and lifelines. In carrying out this paragraph, the Di-
22	rector of the Institute shall—
23	"(A) work, in conjunction with other ap-
24	propriate Federal agencies, to support the de-

1	velopment of improved seismic standards and
2	model codes;
3	"(B) in coordination with other appro-
4	priate Federal agencies, work closely with
5	standards and model code development organi-
6	zations, professional societies, and practicing
7	engineers, architects, and others involved in the
8	construction of buildings, structures, and life-
9	lines, to promote better building practices, in-
10	cluding by—
11	"(i) developing technical resources for
12	practitioners on new knowledge and stand-
13	ards of practice; and
14	"(ii) developing methods and tools to
15	facilitate the incorporation of earthquake
16	engineering principles into design and con-
17	struction practices;
18	"(C) develop tools, technologies, methods,
19	and practitioner guidance to feasibly and cost-
20	effectively retrofit existing buildings and struc-
21	tures to increase their earthquake resiliency;
22	and
23	"(D) work closely with national standards
24	organizations, and other interested parties, to

1	develop seismic safety standards and practices
2	for new and existing lifelines.
3	"(3) Federal Emergency Management
4	AGENCY.—
5	"(A) IN GENERAL.—The Federal Emer-
6	gency Management Agency (in this paragraph
7	referred to as the 'Agency'), consistent with the
8	Agency's all hazards approach, shall be respon-
9	sible for facilitating the development and adop-
10	tion of standards, model building codes, and
11	better seismic building practices, developing
12	tools to assess earthquake hazards, promoting
13	the adoption of hazard mitigation measures,
14	and carrying out a program of direct assistance
15	to States and localities to mitigate earthquake
16	risks to buildings, structures, lifelines, and com-
17	munities.
18	"(B) DIRECTOR'S DUTIES.—The Director
19	of the Agency shall—
20	"(i) work closely with other relevant
21	Federal agencies, standards and model
22	building code development organizations,
23	architects, engineers, and other profes-
24	sionals, to facilitate the development and
25	adoption of standards, model codes, and

1	design and construction practices to in-
2	crease the earthquake resiliency of new
3	and existing buildings, structures, and life-
4	lines in the—
5	"(I) preparation, maintenance,
6	and wide dissemination of design
7	guidance, model building codes and
8	standards, and practices to increase
9	the earthquake resiliency of new and
10	existing buildings, structures, and life-
11	lines;
12	``(II) development of perform-
13	ance-based design guidelines and
14	methodologies supporting model codes
15	for buildings, structures, and lifelines;
16	and
17	"(III) development of methods
18	and tools to facilitate the incorpora-
19	tion of earthquake engineering prin-
20	ciples into design and construction
21	practices;
22	"(ii) develop tools, technologies, and
23	methods to assist local planners, and oth-
24	ers, to model and predict the potential im-

1	pact of earthquake damage in seismically
2	hazardous areas; and
3	"(iii) support the implementation of a
4	comprehensive earthquake education and
5	public awareness program, including the
6	development of materials and their wide
7	dissemination to all appropriate audiences,
8	and support public access to locality-spe-
9	cific information that may assist the public
10	in preparing for, mitigating against, re-
11	sponding to, and recovering from earth-
12	quakes and related disasters.
13	"(C) State assistance grant pro-
14	GRAM.—The Director of the Agency shall oper-
15	ate a program of grants and assistance to en-
16	able States to develop mitigation, preparedness,
17	and response plans, compare inventories and
18	conduct seismic safety inspections of critical
19	structures and lifelines, update building and
20	zoning codes and ordinances to enhance seismic
21	safety, increase earthquake awareness and edu-
22	cation, and encourage the development of
23	multistate groups for such purposes. The Direc-
24	tor shall operate such programs in coordination
25	with the all hazards mitigation and prepared-

1	ness programs authorized by the Robert T.
2	Stafford Disaster Relief and Emergency Assist-
3	ance Act (42 U.S.C. 5121 et seq.), in order to
4	ensure that such programs are as consistent as
5	possible. In order to qualify for assistance
6	under this subparagraph, a State must—
7	"(i) demonstrate that the assistance
8	will result in enhanced seismic safety in
9	the State;
10	"(ii) provide 50 percent of the costs of
11	the activities for which assistance is being
12	given, except that the Director may lower
13	or waive the cost-share requirement for
14	these activities in exceptional cases of eco-
15	nomic hardship; and
16	"(iii) meet such other requirements as
17	the Director of the Agency shall prescribe.
18	"(D) Federal Emergency Management
19	AGENCY ROLE AND RESPONSIBILITY.—Nothing
20	in this Act shall be construed to diminish the
21	role and responsibility of the Federal Emer-
22	gency Management Agency with regard to all
23	hazards preparedness, response, recovery, and
24	mitigation.

1	"(4) United states geological survey.—
2	The United States Geological Survey (in this para-
3	graph referred to as the 'Survey') shall conduct re-
4	search and other activities necessary to characterize
5	and identify earthquake hazards, assess earthquake
6	risks, monitor seismic activity, and provide real-time
7	earthquake information. In carrying out this para-
8	graph, the Director of the Survey shall—
9	"(A) conduct a systematic assessment of
10	the seismic risks in each region of the Nation
11	prone to earthquakes, including, where appro-
12	priate, the establishment and operation of in-
13	tensive monitoring projects on hazardous faults,
14	detailed seismic hazard and risk studies in
15	urban and other developed areas where earth-
16	quake risk is determined to be significant, and
17	engineering seismology studies;
18	"(B) work with officials of State and local
19	governments to ensure that they are knowledge-
20	able about the specific seismic risks in their
21	areas;
22	"(C) develop standard procedures, in con-
23	sultation with the Director of the Federal
24	Emergency Management Agency, for issuing
25	earthquake alerts, including aftershock

1	advisories, and, to the extent possible, ensure
2	that such alerts are compatible with the Inte-
3	grated Public Alerts and Warning System pro-
4	gram authorized by section 202 of the Robert
5	T. Stafford Disaster Relief and Emergency As-
6	sistance Act (42 U.S.C. 5132);
7	"(D) issue when justified, and notify the
8	Director of the Federal Emergency Manage-
9	ment Agency of, an earthquake prediction or
10	other earthquake advisory, which may be evalu-
11	ated by the National Earthquake Prediction
12	Evaluation Council;
13	"(E) operate, as integral parts of the Ad-
14	vanced National Seismic Research and Moni-
15	toring System, a National Earthquake Informa-
16	tion Center and a national seismic network, to-
17	gether providing timely and accurate informa-
18	tion on earthquakes world-wide;
19	"(F) support the operation of regional seis-
20	mic networks in areas of higher seismic risk;
21	"(G) develop and support seismic instru-
22	mentation of buildings and other structures to
23	obtain data on their response to earthquakes
24	for use in engineering studies and assessment
25	of damage;

1	"(H) monitor and assess Earth surface de-
2	formation as it pertains to the evaluation of
3	earthquake hazards and impacts;
4	"(I) work with other Program agencies to
5	maintain awareness of, and where appropriate
6	cooperate with, earthquake risk reduction ef-
7	forts in other countries, to ensure that the Pro-
8	gram benefits from relevant information and
9	advances in those countries;
10	"(J) maintain suitable seismic hazard
11	maps in support of building codes for structures
12	and lifelines, including additional maps needed
13	for performance-based design approaches, and,
14	to the extent possible, ensure that such maps
15	are developed consistent with the multihazard
16	advisory maps authorized by section 203(k) of
17	the Robert T. Stafford Disaster Relief and
18	Emergency Assistance Act (42 U.S.C. 5133(k));
19	"(K) conduct a competitive, peer-reviewed
20	process which awards grants and cooperative
21	agreements to complement and extend related
22	internal Survey research and monitoring activi-
23	ties; and
24	"(L) operate, in cooperation with the Na-
25	tional Science Foundation, a Global Seis-

1	mographic Network for detection of earth-
2	quakes around the world and research into fun-
3	damental earth processes.
4	"(5) NATIONAL SCIENCE FOUNDATION.—The
5	National Science Foundation shall be responsible for
6	funding basic research that furthers the under-
7	standing of earthquakes, earthquake engineering,
8	and community preparation and response to earth-
9	quakes. In carrying out this paragraph, the Director
10	of the National Science Foundation shall—
11	"(A) support multidisciplinary and inter-
12	disciplinary research that will improve the resil-
13	iency of communities to earthquakes, includ-
14	ing—
15	"(i) research that improves the safety
16	and performance of buildings, structures,
17	and lifelines, including the use of the large-
18	scale experimental and computational fa-
19	cilities of the George E. Brown, Jr. Net-
20	work for Engineering Earthquake Simula-
21	tion;
22	"(ii) research to support more effec-
23	tive earthquake mitigation and response
24	measures, such as developing better knowl-
25	edge of the specific types of vulnerabilities

1	faced by segments of the community vul-
2	nerable to earthquakes, addressing the bar-
3	riers they face in adopting mitigation and
4	preparation measures, and developing
5	methods to better communicate the risks of
6	earthquakes and to promote mitigation;
7	and
8	"(iii) research on the response of com-
9	munities, households, businesses, and
10	emergency responders to earthquakes;
11	"(B) support research to understand
12	earthquake processes, earthquake patterns, and
13	earthquake frequencies;
14	"(C) encourage prompt dissemination of
15	significant findings, sharing of data, samples,
16	physical collections, and other supporting mate-
17	rials, and development of intellectual property
18	so research results can be used by appropriate
19	organizations to mitigate earthquake damage;
20	"(D) work with other Program agencies to
21	maintain awareness of, and where appropriate
22	cooperate with, earthquake risk reduction re-
23	search efforts in other countries, to ensure that
24	the Program benefits from relevant information
25	and advances in those countries; and

1	"(E) include to the maximum extent prac-
2	ticable diverse institutions, including Histori-
3	cally Black Colleges and Universities, Hispanic-
4	serving institutions, Tribal Colleges and Univer-
5	sities, Alaska Native-serving institutions, and
6	Native Hawaiian-serving institutions."; and
7	(3) in subsection $(c)(1)$ by inserting "on Nat-
8	ural Hazards Risk Reduction established under sec-
9	tion 301 of the Natural Hazards Risk Reduction Act
10	of 2011" after "Interagency Coordinating Com-
11	mittee".
12	SEC. 105. POST-EARTHQUAKE INVESTIGATIONS PROGRAM.
13	Section 11 of the Earthquake Hazards Reduction Act
14	of 1977 (42 U.S.C. 7705e) is amended by striking "There
15	is established" and all that follows through "conduct of
16	such earthquake investigations." and inserting "The Pro-
17	gram shall include a post-earthquake investigations pro-
18	gram, the purpose of which is to investigate major earth-
19	quakes so as to learn lessons which can be applied to re-
20	duce the loss of lives and property in future earthquakes.
21	The lead Program agency, in consultation with each Pro-
22	gram agency, shall organize investigations to study the im-
23	plications of the earthquakes in the areas of responsibility
24	of each Program agency. The investigations shall begin
25	as rapidly as possible and may be conducted by grantees

and contractors. The Program agencies shall ensure that the results of the investigations are disseminated widely.". 3 SEC. 106. AUTHORIZATION OF APPROPRIATIONS. 4 (a) In General.—Section 12 of the Earthquake Hazards Reduction Act of 1977 (42 U.S.C. 7706) is 6 amended— 7 (1) by adding at the end of subsection (a) the 8 following: 9 "(9) There are authorized to be appropriated to the 10 Federal Emergency Management Agency for carrying out 11 this Act— 12 "(A) \$10,238,000 for fiscal year 2011; "(B) \$10,545,000 for fiscal year 2012; 13 14 "(C) \$10,861,000 for fiscal year 2013; 15 "(D) \$11,187,000 for fiscal year 2014; and 16 "(E) \$11,523,000 for fiscal year 2015."; 17 (2) by adding at the end of subsection (b) the 18 following: 19 "(3) There are authorized to be appropriated to the 20 United States Geological Survey for carrying out this 21 Act— 22 "(A) \$90,000,000 for fiscal year 2011, of which 23 \$36,000,000 shall be made available for completion 24 of the Advanced National Seismic Research and 25 Monitoring System;

1	"(B) \$92,100,000 for fiscal year 2012, of which
2	\$37,000,000 shall be made available for completion
3	of the Advanced National Seismic Research and
4	Monitoring System;
5	"(C) $$94,263,000$ for fiscal year 2013, of which
6	\$38,000,000 shall be made available for completion
7	of the Advanced National Seismic Research and
8	Monitoring System;
9	"(D) $96,491,000$ for fiscal year 2014, of which
10	\$39,000,000 shall be made available for completion
11	of the Advanced National Seismic Research and
12	Monitoring System; and
13	"(E) $\$98,786,000$ for fiscal year 2015, of which
14	\$40,000,000 shall be made available for completion
15	of the Advanced National Seismic Research and
16	Monitoring System.";
17	(3) by adding at the end of subsection (c) the
18	following:
19	"(3) There are authorized to be appropriated to the
20	National Science Foundation for carrying out this Act—
21	"(A) \$64,125,000 for fiscal year 2011;
22	"(B) $66,049,000$ for fiscal year 2012;
23	"(C) \$68,030,000 for fiscal year 2013;
24	"(D) $70,071,000$ for fiscal year 2014; and
25	"(E) $$72,173,000$ for fiscal year 2015."; and

1	(4) by adding at the end of subsection (d) the
2	following:
3	"(3) There are authorized to be appropriated to the
4	National Institute of Standards and Technology for car-
5	rying out this Act—
6	"(A) \$7,000,000 for fiscal year 2011;
7	"(B) \$7,700,000 for fiscal year 2012;
8	"(C) $$7,931,000$ for fiscal year 2013;
9	"(D) $\$8,169,000$ for fiscal year 2014; and
10	"(E) $\$8,414,000$ for fiscal year 2015.".
11	(b) Conforming Amendment.—Section 14 of the
12	National Earthquake Hazards Reduction Act of 1977 (42
13	U.S.C. 7708) is amended—
14	(1) by striking "(a) Establishment.—"; and
15	(2) by striking subsection (b).
16	TITLE II—WIND
17	SEC. 201. SHORT TITLE.
18	This title may be cited as the "National Windstorm
19	Impact Reduction Act Reauthorization of 2011".
20	SEC. 202. PURPOSE.
21	Section 202 of the National Windstorm Impact Re-
22	duction Act of 2004 (42 U.S.C. 15701) is amended to
23	read as follows:

## 1 "SEC. 202. PURPOSE.

2	"It is the purpose of the Congress in this title to
3	achieve a major measurable reduction in losses of life and
4	property from windstorms through the establishment and
5	maintenance of an effective Windstorm Impact Reduction
6	Program. The objectives of such Program shall include—
7	"(1) the education of households, businesses,
8	and communities about the risks posed by wind-
9	storms, and the identification of locations, struc-
10	tures, lifelines, and segments of the community
11	which are especially vulnerable to windstorm damage
12	and disruption, and the dissemination of information
13	on methods to reduce those risks;
14	"(2) the development of technologically and eco-
15	nomically feasible design and construction methods
16	and procedures to make new and existing structures,
17	in areas of windstorm risk, windstorm resilient, giv-
18	ing high priority to the development of such methods
19	and procedures for lifelines, structures associated
20	with a potential high loss of life, and structures that
21	are especially needed in times of disasters, such as
22	hospitals and public safety and shelter facilities;
23	"(3) the implementation, in areas of major
24	windstorm risk, of instrumentation to record and
25	gather data on windstorms and the characteristics of
26	the wind during those events, and continued re-

1	search to increase the understanding of windstorm
2	phenomena;
3	"(4) the development, publication, and pro-
4	motion, in conjunction with State and local officials
5	and professional organizations, of model building
6	codes and standards and other means to encourage
7	consideration of information about windstorm risk in
8	making decisions about land use policy and construc-
9	tion activity; and
10	"(5) the facilitation of the adoption of wind-
11	storm risk mitigation measures in areas of wind-
12	storm risk by households, businesses, and commu-
13	nities through outreach, incentive programs, and
14	other means.".
15	SEC. 203. DEFINITIONS.
16	Section 203(1) of the National Windstorm Impact
17	Reduction Act of 2004 (42 U.S.C. 15702(1)) is amended
18	by striking "Director of the Office of Science and Tech-
19	nology Policy' and inserting "Director of the National In-
20	stitute of Standards and Technology".
21	SEC. 204. NATIONAL WINDSTORM IMPACT REDUCTION PRO-
22	GRAM.
23	Section 204 of the National Windstorm Impact Re-
24	duction Act of 2004 (42 U.S.C. 15703) is amended to
25	read as follows:

1	"SEC. 204. NATIONAL WINDSTORM IMPACT REDUCTION
2	PROGRAM.
3	"(a) Establishment.—There is established the Na-
4	tional Windstorm Impact Reduction Program.
5	"(b) Program Activities.—The activities of the
6	Program shall be designed to—
7	"(1) research and develop cost-effective, feasible
8	methods, tools, and technologies to reduce the risks
9	posed by windstorms to the built environment, espe-
10	cially to lessen the risk to existing structures and
11	lifelines;
12	"(2) improve the understanding of windstorms
13	and their impacts on households, businesses, com-
14	munities, buildings, structures, and lifelines, through
15	interdisciplinary and multidisciplinary research that
16	involves engineering, natural sciences, and social
17	sciences; and
18	"(3) facilitate the adoption of windstorm risk
19	reduction measures by households, businesses, com-
20	munities, local, State and Federal governments, na-
21	tional standards and model building code organiza-
22	tions, architects and engineers, building owners, and
23	others with a role in planning for disasters and plan-
24	ning, constructing, retrofitting, and insuring build-
25	ings, structures, and lifelines through—

1	"(A) grants, contracts, cooperative agree-
2	ments, and technical assistance;
3	"(B) development of hazard maps, stand-
4	ards, guidelines, voluntary consensus standards,
5	and other design guidance for windstorm risk
6	reduction for buildings, structures, and lifelines;
7	"(C) outreach and information dissemina-
8	tion to communities on site specific windstorm
9	hazards and ways to reduce the risks from
10	those hazards; and
11	"(D) development and maintenance of a
12	repository of information, including technical
13	data, on windstorm hazards and risk reduction;
14	"(e) Responsibilities of Program Agencies.—
15	"(1) Lead agency.—The National Institute of
16	Standards and Technology (in this section referred
17	to as the 'Institute') shall be responsible for plan-
18	ning and coordinating the Program. In carrying out
19	this paragraph, the Director of the Institute shall—
20	"(A) ensure that the Program includes the
21	necessary components to promote the imple-
22	mentation of windstorm risk reduction meas-
23	ures by households, businesses, communities,
24	local, State, and Federal governments, national
25	standards and model building code organiza-

1	tions, architects and engineers, building owners,
2	and others with a role in planning and pre-
3	paring for disasters, and planning constructing,
4	and retrofitting, and insuring buildings, struc-
5	tures, and lifelines;
6	"(B) support the development of perform-
7	ance-based engineering tools, and work with the
8	appropriate groups to promote the commercial
9	application of such tools, through wind-related
10	building codes, standards, and construction
11	practices;
12	"(C) ensure the use of social science re-
13	search and findings in informing the develop-
14	ment of technology and research priorities, in
15	communicating windstorm risks to the public,
16	in developing windstorm risk mitigation strate-
17	gies, and in preparing for windstorm disasters;
18	"(D) coordinate all Federal post-windstorm
19	investigations; and
20	"(E) when warranted by research or inves-
21	tigative findings, issue recommendations for
22	changes in model codes to the relevant code de-
23	velopment organizations, and report back to
24	Congress on whether such recommendations
25	were adopted.

1	"(2) National institute of standards and
2	TECHNOLOGY.—In addition to the lead agency re-
3	sponsibilities described under paragraph (1), the In-
4	stitute shall be responsible for carrying out research
5	and development to improve model codes, standards,
6	design guidance and practices for the construction
7	and retrofit of buildings, structures, and lifelines. In
8	carrying out this paragraph, the Director of the In-
9	stitute shall—
10	"(A) support the development of instru-
11	mentation, data processing, and archival capa-
12	bilities, and standards for the instrumentation
13	and its deployment, to measure wind, wind
14	loading, and other properties of severe wind and
15	structure response;
16	"(B) coordinate with other appropriate
17	Federal agencies to make the data described in
18	subparagraph (A) available to researchers,
19	standards and code developers, and local plan-
20	ners;
21	"(C) support the development of tools and
22	methods for the collection of data on the loss of
23	and damage to structures, and data on sur-
24	viving structures after severe windstorm events;

1	"(D) improve the knowledge of the impact
2	of severe wind on buildings, structures, lifelines,
3	and communities;
4	"(E) develop cost-effective windstorm im-
5	pact reduction tools, methods, and technologies;
6	"(F) work, in conjunction with other ap-
7	propriate Federal agencies, to support the de-
8	velopment of wind standards and model codes;
9	and
10	"(G) in conjunction with other appropriate
11	Federal agencies, work closely with standards
12	and model code development organizations, pro-
13	fessional societies, and practicing engineers, ar-
14	chitects, and others involved in the construction
15	of buildings, structures, and lifelines, to pro-
16	mote better building practices, including by—
17	"(i) supporting the development of
18	technical resources for practitioners to im-
19	plement new knowledge; and
20	"(ii) supporting the development of
21	methods and tools to incorporate wind en-
22	gineering principles into design and con-
23	struction practices.
24	"(3) Federal Emergency Management
25	AGENCY.—The Federal Emergency Management

1	Agency, consistent with the Agency's all hazards ap-
2	proach, shall support the development of risk assess-
3	ment tools and effective mitigation techniques, assist
4	with windstorm-related data collection and analysis,
5	and support outreach, information dissemination,
6	and implementation of windstorm preparedness and
7	mitigation measures by households, businesses, and
8	communities, including by—
9	"(A) working to develop or improve risk-
10	assessment tools, methods, and models;
11	"(B) work closely with other appropriate
12	Federal agencies to develop and facilitate the
13	adoption of windstorm impact reduction meas-
14	ures, including by—
15	"(i) developing cost-effective retrofit
16	measures for existing buildings, structures,
17	and lifelines to improve windstorm per-
18	formance;
19	"(ii) developing methods, tools, and
20	technologies to improve the planning, de-
21	sign, and construction of new buildings,
22	structures, and lifelines;
23	"(iii) supporting the development of
24	model wind codes and standards for build-
25	ings, structures, and lifelines; and

1	"(iv) developing technical resources
2	for practitioners that reflect new knowl-
3	edge and standards of practice; and
4	"(C) develop and disseminate guidelines
5	for the construction of windstorm shelters.
6	Nothing in this Act shall be construed to diminish
7	the role and responsibility of the Federal Emergency
8	Management Agency with regard to all hazards pre-
9	paredness, response, recovery, and mitigation.
10	"(4) National oceanic and atmospheric
11	ADMINISTRATION.—The National Oceanic and At-
12	mospheric Administration shall support atmospheric
13	sciences research and data collection to improve the
14	understanding of the behavior of windstorms and
15	their impact on buildings, structures, and lifelines,
16	including by—
17	"(A) working with other appropriate Fed-
18	eral agencies to develop and deploy instrumen-
19	tation to measure speed and other characteris-
20	tics of wind, and to collect, analyze, and make
21	available such data;
22	"(B) working with officials of State and
23	local governments to ensure that they are
24	knowledgeable about, and prepared for, the spe-
25	cific windstorm risks in their area:

1	"(C) supporting the development of suit-
2	able wind speed maps and other derivative
3	products that support building codes and other
4	hazard mitigation approaches for buildings,
5	structures, and lifelines, and, to the extent pos-
6	sible, ensure that such maps and other deriva-
7	tive products are developed consistent with the
8	multihazard advisory maps authorized by sec-
9	tion 203(k) of the Robert T. Stafford Disaster
10	Relief and Emergency Assistance Act (42
11	U.S.C. 5133(k));
12	"(D) conducting a competitive, peer-re-
13	viewed process which awards grants and cooper-
14	ative agreements to complement the National
15	Oceanic and Atmospheric Administration's
16	wind-related and storm surge-related research
17	and data collection activities;
18	"(E) working with other appropriate Fed-
19	eral agencies and State and local governments
20	to develop or improve risk-assessment tools,
21	methods, and models; and
22	"(F) working with other appropriate Fed-
23	eral agencies to develop storm surge models to
24	better understand the interaction between wind-
25	storms and bodies of water.

1	"(5) NATIONAL SCIENCE FOUNDATION.—The
2	National Science Foundation shall be responsible for
3	funding basic research that furthers the under-
4	standing of windstorms, wind engineering, and com-
5	munity preparation and response to windstorms. In
6	carrying out this paragraph, the Director of the Na-
7	tional Science Foundation shall—
8	"(A) support multidisciplinary and inter-
9	disciplinary research that will improve the resil-
10	iency of communities to windstorms, includ-
11	ing—
12	"(i) research that improves the safety
13	and performance of buildings, structures,
14	and lifelines;
15	"(ii) research to support more effec-
16	tive windstorm mitigation and response
17	measures, such as developing better knowl-
18	edge of the specific types of vulnerabilities
19	faced by segments of the community vul-
20	nerable to windstorms, addressing the bar-
21	riers they face in adopting mitigation and
22	preparation measures, and developing
23	methods to better communicate the risks of
24	windstorms and to promote mitigation; and

1	"(iii) research on the response of com-
2	munities to windstorms, including on the
3	effectiveness of the emergency response,
4	and the recovery process of communities,
5	households, and businesses;
6	"(B) support research to understand wind-
7	storm processes, windstorm patterns, and wind-
8	storm frequencies;
9	"(C) encourage prompt dissemination of
10	significant findings, sharing of data, samples,
11	physical collections, and other supporting mate-
12	rials, and development of intellectual property
13	so research results can be used by appropriate
14	organizations to mitigate windstorm damage;
15	"(D) work with other Program agencies to
16	maintain awareness of, and where appropriate
17	cooperate with, windstorm risk reduction re-
18	search efforts in other countries, to ensure that
19	the Program benefits from relevant information
20	and advances in those countries; and
21	"(E) include to the maximum extent prac-
22	ticable diverse institutions, including Histori-
23	cally Black Colleges and Universities, Hispanic-
24	serving institutions, Tribal Colleges and Univer-

50
sities, Alaska Native-serving institutions, and
Native Hawaiian-serving institutions.".
SEC. 205. AUTHORIZATION OF APPROPRIATIONS.
Section 207 of the National Windstorm Impact Re-
duction Program of 2004 (42 U.S.C. 15706) is amended
to read as follows:
"SEC. 207. AUTHORIZATION OF APPROPRIATIONS.
"(a) Federal Emergency Management Agen-
CY.—There are authorized to be appropriated to the Fed-
eral Emergency Management Agency for carrying out this
title—
"(1) \$9,682,000 for fiscal year 2011;
"(2) \$9,972,500 for fiscal year 2012;
"(3) \$10,271,600 for fiscal year 2013;
"(4) $$10,579,800$ for fiscal year 2014; and
"(5) $$10,897,200$ for fiscal year 2015.
"(b) NATIONAL SCIENCE FOUNDATION.—There are
authorized to be appropriated to the National Science
Foundation for carrying out this title—
"(1) \$9,682,000 for fiscal year 2011;
"(2) \$9,972,500 for fiscal year 2012;
"(3) \$10,271,600 for fiscal year 2013;
"(4) $$10,579,800$ for fiscal year 2014; and
" $(5)$ \$10,897,200 for fiscal year 2015.

1	"(c) National Institute of Standards and
2	TECHNOLOGY.—There are authorized to be appropriated
3	to the National Institute of Standards and Technology for
4	carrying out this title—
5	"(1) \$4,120,000 for fiscal year 2011;
6	"(2) \$5,300,000 for fiscal year 2012;
7	"(3) \$5,460,000 for fiscal year 2013;
8	" $(4)$ \$5,620,000 for fiscal year 2014; and
9	" $(5)$ \$5,790,000 for fiscal year 2015.
10	"(d) National Oceanic and Atmospheric Admin-
11	ISTRATION.—There are authorized to be appropriated to
12	the National Oceanic and Atmospheric Administration for
13	carrying out this title—
14	"(1) $$2,266,000$ for fiscal year 2011;
15	"(2) \$2,700,000 for fiscal year 2012;
16	"(3) \$2,780,000 for fiscal year 2013;
17	" $(4)$ \$2,860,000 for fiscal year 2014; and
18	"(5) \$2,950,000 for fiscal year 2015.".

1 2	TITLE III—INTERAGENCY CO- ORDINATING COMMITTEE ON
3	NATURAL HAZARDS RISK RE- DUCTION
5	SEC. 301. INTERAGENCY COORDINATING COMMITTEE ON
6	NATURAL HAZARDS RISK REDUCTION.
7	(a) In General.—There is established an Inter-
8	agency Coordinating Committee on Natural Hazards Risk
9	Reduction, chaired by the Director of the National Insti-
10	tute of Standards and Technology.
11	(1) Membership.—In addition to the chair,
12	the Committee shall be composed of—
13	(A) the directors of—
14	(i) the Federal Emergency Manage-
15	ment Agency;
16	(ii) the United State Geological Sur-
17	vey;
18	(iii) the National Oceanic and Atmos-
19	pheric Administration;
20	(iv) the National Science Foundation;
21	(v) the Office of Science and Tech-
22	nology Policy; and
23	(vi) the Office of Management and
24	Budget; and

1	(B) the head of any other Federal agency
2	the Committee considers appropriate.
3	(2) Meetings.—The Committee shall not meet
4	less than 2 times a year at the call of the Director
5	of the National Institute of Standards and Tech-
6	nology.
7	(3) GENERAL PURPOSE AND DUTIES.—The
8	Committee shall oversee the planning and coordina-
9	tion of the National Earthquake Hazards Reduction
10	Program and the National Windstorm Impact Re-
11	duction Program, and shall make proposals for plan-
12	ning and coordination of any other Federal research
13	for natural hazard mitigation that the Committee
14	considers appropriate.
15	(4) Strategic plans.—The Committee shall
16	develop and submit to Congress, not later than one
17	year after the date of enactment of this Act—
18	(A) a Strategic Plan for the National
19	Earthquake Hazards Reduction Program that
20	includes—
21	(i) prioritized goals for such Program
22	that will mitigate against the loss of life
23	and property from future earthquakes:

1	(ii) short-term, mid-term, and long-
2	term research objectives to achieve those
3	goals;
4	(iii) a description of the role of each
5	Program agency in achieving the
6	prioritized goals;
7	(iv) the methods by which progress to-
8	wards the goals will be assessed;
9	(v) an explanation of how the Pro-
10	gram will foster the transfer of research
11	results onto outcomes, such as improved
12	building codes;
13	(vi) a description of the role of social
14	science in informing the development of
15	the prioritized goals and research objec-
16	tives; and
17	(vii) a description of how the George
18	E. Brown, Jr. Network for Earthquake
19	Engineering Simulation and the Advanced
20	National Seismic Research and Monitoring
21	System will be used in achieving the
22	prioritized goals and research objectives;
23	and

1	(B) a Strategic Plan for the National
2	Windstorm Impact Reduction Program that in-
3	cludes—
4	(i) prioritized goals for such Program
5	that will mitigate against the loss of life
6	and property from future windstorms;
7	(ii) short-term, mid-term, and long-
8	term research objectives to achieve those
9	goals;
10	(iii) a description of the role of each
11	Program agency in achieving the
12	prioritized goals;
13	(iv) the methods by which progress to-
14	wards the goals will be assessed;
15	(v) an explanation of how the Pro-
16	gram will foster the transfer of research
17	results onto outcomes, such as improved
18	building codes; and
19	(vi) a description of the role of social
20	science in informing the development of
21	the prioritized goals and research objec-
22	tives.
23	(5) Progress reports.—Not later than one
24	year after the date of enactment of this Act, and at

1	least once every two years thereafter, the Committee
2	shall submit to the Congress—
3	(A) a report on the progress of the Na-
4	tional Earthquake Hazards Reduction Program
5	that includes—
6	(i) a description of the activities fund-
7	ed for the previous two years of the Pro-
8	gram, a description of how these activities
9	align with the prioritized goals and re-
10	search objectives established in the Stra-
11	tegic Plan, and the budgets, per agency,
12	for these activities;
13	(ii) the outcomes achieved by the Pro-
14	gram for each of the goals identified in the
15	Strategic Plan;
16	(iii) a description of any recommenda-
17	tions made to change existing building
18	codes that were the result of Program ac-
19	tivities; and
20	(iv) a description of the extent to
21	which the Program has incorporated rec-
22	ommendations from the Advisory Com-
23	mittee on Earthquake Hazards Reduction;
24	and

1	(B) a report on the progress of the Na-
2	tional Windstorm Impact Reduction Program
3	that includes—
4	(i) a description of the activities fund-
5	ed for the previous two years of the Pro-
6	gram, a description of how these activities
7	align with the prioritized goals and re-
8	search objectives established in the Stra-
9	tegic Plan, and the budgets, per agency,
10	for these activities;
11	(ii) the outcomes achieved by the Pro-
12	gram for each of the goals identified in the
13	Strategic Plan;
14	(iii) a description of any recommenda-
15	tions made to change existing building
16	codes that were the result of Program ac-
17	tivities; and
18	(iv) a description of the extent to
19	which the Program has incorporated rec-
20	ommendations from the Advisory Com-
21	mittee on Windstorm Impact Reduction.
22	(6) COORDINATED BUDGET.—The Committee
23	shall develop a coordinated budget for the National
24	Earthquake Hazards Reduction Program and a co-
25	ordinated budget for the National Windstorm Im-

1	pact Reduction Program. These budgets shall be
2	submitted to the Congress at the time of the Presi-
3	dent's budget submission for each fiscal year.
4	(b) Advisory Committees on Natural Hazards
5	REDUCTION.—
6	(1) In general.—The Director of the National
7	Institute of Standards and Technology shall estab-
8	lish an Advisory Committee on Earthquake Hazards
9	Reduction, an Advisory Committee on Windstorm
10	Impact Reduction, and other such advisory commit-
11	tees as the Director considers necessary to advise
12	the Institute on research, development, and tech-
13	nology transfer activities to mitigate the impact of
14	natural disasters.
15	(2) Advisory committee on Earthquake
16	HAZARDS REDUCTION.—The Advisory Committee on
17	Earthquake Hazards Reduction shall be composed of
18	at least 11 members, none of whom may be employ-
19	ees of the Federal Government, including represent-
20	atives of research and academic institutions, indus-
21	try standards development organizations, emergency
22	management agencies, State and local government,
23	and business communities who are qualified to pro-
24	vide advice on earthquake hazards reduction and
25	represent all related scientific, architectural, and en-

1	gineering disciplines. The recommendations of the
2	Advisory Committee shall be considered by Federal
3	agencies in implementing the National Earthquake
4	Hazards Reduction Program.
5	(3) Advisory committee on windstorm im-
6	PACT REDUCTION.—The Advisory Committee on
7	Windstorm Impact Reduction shall be composed of
8	at least 7 members, none of whom may be employees
9	of the Federal Government, including representa-
10	tives of research and academic institutions, industry
11	standards development organizations, emergency
12	management agencies, State and local government,
13	and business communities who are qualified to pro-
14	vide advice on windstorm impact reduction and rep-
15	resent all related scientific, architectural, and engi-
16	neering disciplines. The recommendations of the Ad-
17	visory Committee shall be considered by Federal
18	agencies in implementing the National Windstorm
19	Impact Reduction Program.
20	(4) Assessments.—The Advisory Committee
21	on Earthquake Hazards Reduction and the Advisory
22	Committee on Windstorm Impact Reduction shall
23	offer assessments on—
24	(A) trends and developments in the nat-
25	ural, social, and engineering sciences and prac-

1	tices of earthquake hazards or windstorm im-
2	pact mitigation;
3	(B) the priorities of the Programs' Stra-
4	tegic Plans;
5	(C) the coordination of the Programs; and
6	(D) and any revisions to the Programs
7	which may be necessary.
8	(5) Reports.—At least every two years, the
9	Advisory Committees shall report to the Director of
10	the National Institute of Standards and Technology
11	on the assessments carried out under paragraph (4)
12	and their recommendations for ways to improve the
13	Programs. In developing recommendations for the
14	National Earthquake Hazards Reduction Program,
15	the Advisory Committee on Earthquake Hazards Re-
16	duction shall consider the recommendations of the
17	United States Geological Survey Scientific Earth-
18	quake Studies Advisory Committee.
19	(e) Coordination of Federal Disaster Re-
20	SEARCH, DEVELOPMENT, AND TECHNOLOGY TRANS-
21	FER.—Not later than 2 years after the date of enactment
22	of this Act, the Subcommittee on Disaster Reduction of
23	the Committee on Environment and Natural Resources of
24	the National Science and Technology Council shall submit
25	a report to the Congress identifying—

1	(1) current Federal research, development, and
2	technology transfer activities that address hazard
3	mitigation for natural disasters, including earth-
4	quakes, hurricanes, tornados, wildfires, floods, and
5	the current budgets for these activities;
6	(2) areas of research that are common to two
7	or more of the hazards identified in paragraph (1);
8	and
9	(3) opportunities to create synergies between
10	the research activities for the hazards identified in
11	paragraph (1).
12	TITLE IV—NATIONAL CON-
10	STRUCTION SAFETY TEAM
13	SIRUCTION SAFETY TEAM
13 14	ACT AMENDMENTS
14	ACT AMENDMENTS
14 15	ACT AMENDMENTS SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	ACT AMENDMENTS  SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT AMENDMENTS.
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	ACT AMENDMENTS  SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT  AMENDMENTS.  The National Construction Safety Team Act (15)
14 15 16 17 18	ACT AMENDMENTS  SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT  AMENDMENTS.  The National Construction Safety Team Act (15  U.S.C. 7301 et seq.) is amended—
14 15 16 17 18 19	ACT AMENDMENTS  SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT  AMENDMENTS.  The National Construction Safety Team Act (15  U.S.C. 7301 et seq.) is amended—  (1) in section 2(a)—
14 15 16 17 18 19 20	ACT AMENDMENTS  SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT  AMENDMENTS.  The National Construction Safety Team Act (15  U.S.C. 7301 et seq.) is amended—  (1) in section 2(a)—  (A) by striking "a building or buildings"
14 15 16 17 18 19 20 21	ACT AMENDMENTS  SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT  AMENDMENTS.  The National Construction Safety Team Act (15  U.S.C. 7301 et seq.) is amended—  (1) in section 2(a)—  (A) by striking "a building or buildings" and inserting "a building, buildings, or infra-
14 15 16 17 18 19 20 21 22	ACT AMENDMENTS  SEC. 401. NATIONAL CONSTRUCTION SAFETY TEAM ACT  AMENDMENTS.  The National Construction Safety Team Act (15  U.S.C. 7301 et seq.) is amended—  (1) in section 2(a)—  (A) by striking "a building or buildings" and inserting "a building, buildings, or infrastructure"; and

1	event." and inserting "The Director shall make
2	a decision whether to deploy a Team within 72
3	hours after such an event.";
4	(2) in section 2(b)(1), by striking "buildings"
5	and inserting "buildings or infrastructure";
6	(3) in section 2(b)(2)(A), by striking "building"
7	and inserting "building or infrastructure";
8	(4) in section $2(b)(2)(D)$ , by striking "build-
9	ings" and inserting "buildings or infrastructure";
10	(5) in section 2(c)(1), by striking "the United
11	States Fire Administration and";
12	(6) in section 2(c)(1)(G), by striking "building"
13	and inserting "building or infrastructure";
14	(7) in section $2(c)(1)(J)$ —
15	(A) by striking "building" and inserting
16	"building or infrastructure"; and
17	(B) by inserting "and the National Wind-
18	storm Impact Reduction Act of 2004" after
19	"Act of 1977";
20	(8) in section 4(a), by striking "investigating a
21	building" and inserting "investigating building and
22	infrastructure";
23	(9) in section 4(a)(1)—
24	(A) by striking "a building" and inserting
25	"a building or infrastructure"; and

1	(B) by striking "building" both of the
2	other places it appears and inserting "building
3	or infrastructure";
4	(10) in section 4(a)(3), by striking "building"
5	both places it appears and inserting "building or in-
6	frastructure";
7	(11) in section 4(b), by striking "building" both
8	places it appears and inserting "building or infra-
9	structure'';
10	(12) in section $4(c)(1)$ and (2), by striking
11	"building" both places it appears and inserting
12	"building or infrastructure";
13	(13) by amending section $4(d)(1)$ to read as fol-
14	lows:
15	"(1) In general.—Except as otherwise pro-
16	vided in this subsection, a Team investigation shall
17	have priority over any other investigation which is
18	related to the purpose and duties set forth in section
19	2(b) and undertaken by any other Federal agency.";
20	(14) in section $4(d)(3)$ and $(4)$ , by striking
21	"building" both places it appears and inserting
22	"building or infrastructure";
23	(15) in section 4, by adding at the end the fol-
24	lowing new paragraph:

1	"(5) Infrastructure investigations.—With
2	respect to an investigation relating to an infrastruc-
3	ture failure, a Federal agency with primary jurisdic-
4	tion over the failed infrastructure which is con-
5	ducting an investigation and asserts priority over the
6	Team investigation shall have such priority. Such
7	priority shall not otherwise affect the authority of
8	the Team to continue its investigation under this
9	Act.";
10	(16) in section 7(a), by striking "on request
11	and at reasonable cost";
12	(17) in section 7(c), by striking "building" and
13	inserting "building or infrastructure";
14	(18) in section 8(1) and (4), by striking "build-
15	ing" both places it appears and inserting "building
16	or infrastructure";
17	(19) in section 9, by striking "the United
18	States Fire Administration and";
19	(20) in section 9(2)(C), by striking "building"
20	and inserting "building or infrastructure";
21	(21) in section 10(3), by striking "building"
22	and inserting "building and infrastructure";
23	(22) in section 11(a), by striking "the United
24	States Fire Administration and"; and
25	(23) by striking section 12.

## TITLE V—FIRE RESEARCH 1 **PROGRAM** 2 SEC. 501. FIRE RESEARCH PROGRAM. Section 16(a)(1) of the National Institute of Stand-4 5 ards and Technology Act (15 U.S.C. 278f(a)(1)) is 6 amended— (1) in subparagraph (D), by inserting "fires at 7 the wildland-urban interface," after "but not limited 8 9 to,"; and (2) in subparagraph (E), by inserting "fires at 10 the wildland-urban interface," after "types of fires, 11 including". 12 |X|

