SECTION 1. TABLE OF CONTENTS.

The table of contents for this Act is as follows:

TITLE I—NATIONAL ALERT SYSTEM

SEC. 101. SHORT TITLE.

This title may be cited as the ''Warning, Alert, and Response Network Act''.

SEC. 102. NATIONAL ALERT SYSTEM.

(a) ESTABLISHMENT.—There is established a National Alert System to provide a public communications system capable of alerting the public on a national, regional, or local basis to emergency situations requiring a public response.

(b) FUNCTIONS.—The National Alert System—

(1) will enable any Federal, State, tribal, or local government official with credentials issued by the National Alert Office under section 103 to alert the public to any imminent threat that presents a significant risk of injury or death to the public;

(2) will be coordinated with and supplement existing Federal, State, trival, and local emergency warning and alert systems;

(3) will be flexible enough in its application to permit narrowly targeted alerts in circumstances in which only a small geographic area is exposed or potentially exposed to the threat; and

(4) will transmit alerts across the greatest possible variety of communications technologies, including digital and analog broadcasts, cable and satellite television, satellite and terrestrial radio, wireless communications, wireline communications, and the Internet to reach the largest portion of the affected population.

(c) CAPABILITIES.—The National Alert System—

(1) shall incorporate multiple communications technologies and be designed to adapt to, and incorporate, future technologies for communicating directly with the public;

(2) shall include mechanisms and technologies to ensure that members of the public with disabilities and older individuals (as defined in section 102(35) of the Older Americans Act of 1965 (42 U.S.C. 3002(35))) are able to receive alerts and information provided through the National Alert System;

(3) may not interfere with existing alert, warning, priority access, or emergency communications systems employed by Federal, State, tribal, or local emergency response personnel and shall incorporate existing emergency alert technologies, including the NOAA All-Hazards Radio System, digital and analog broadcast, cable, and satellite television and satellite and terrestrial radio;

(4) shall not be based upon any single technology or platform, but shall be designed to provide alerts to the largest portion of the affected population feasible and improve the ability of remote areas to receive alerts;

(5) shall incorporate technologies to alert effectively underserved communities (as determined by the Commission under section 107(a) of this title);

(6) shall be capable of providing information in languages other than, and in addition to, English where necessary or appropriate; and

(7) shall be designed to promote community preparedness and response.

(d) RECEPTION OF ALERTS.—The National Alert System shall—

(1) utilize multiple technologies for providing alerts to the public, including technologies that do not require members of the public to activate a particular device or use a particular technology to receive an alert provided via the National Alert System; and

(2) provide redundant alert mechanisms where practicable so as to reach the greatest number of people regardless of whether they have access to, or utilize, any specific medium of communication or any particular device.

(e) EXISTING FEDERAL WARNING SYSTEM COORDINATION.—The director shall work with the Federal Communications Commission and other relevant Federal agencies to ensure that the National Alert System—

(1) complements, rather than duplicates, existing Federal alert systems; and

(2) obtains the maximum benefit possible from the utilization of existing research and development, technologies, and processes developed for or utilized by existing Federal alert systems.

(f) EMERGENCY ALERT SYSTEM.—Within 1 year after the date of enactment of this Act, the Federal Communications Commission shall—

(1) complete its proceeding *Review of the Emergency Alert System*, EB Docket No. 04-296;

(2) ensure that the President, the Secretary of Homeland Security, and State Governors have access to the emergency alert system; and

(3) ensure that the Emergency Alert System can transmit in languages other than English.

SEC. 103. IMPLEMENTATION AND USE.

(a) AUTHORITY TO ACCESS SYSTEM.—

(1) IN GENERAL.—The National Alert Office shall establish a process for issuing credentials to Federal, State, tribal, or local government officials with responsibility for issuing safety warnings to the public that will enable them to access the National Alert System.

(2) REQUESTS FOR CREDENTIALS.—Requests for credentials from Federal, State, tribal, and local government agencies shall be submitted to the Office

by the head of the Federal department or agency, or the governor of the State or the elected leader of a Federally recognized Indian tribe, concerned, for review and approval.

(3) SCOPE AND LIMITATIONS OF CREDENTIALS.—The Office shall—

(A) establish eligibility criteria for issuing, renewing, and revoking access credentials;

(B) limit credentials to appropriate geographic areas or political jurisdictions; and

(C) ensure that the credentials permit use of the National Alert System only for alerts that are consistent with the jurisdiction, authority, and basis for eligibility of the individual to whom the credentials are issued to use the National Alert System.

(4) PERIODIC TRAINING.—The Office shall—

(A) establish a periodic training program for Federal, State, tribal, or local government officials with credentials to use the National Alert System; and

(B) require such officials to undergo periodic training under the program as a prerequisite for retaining their credentials to use the system.

(b) ALLOWABLE ALERTS.—

(1) IN GENERAL.—Any alert transmitted via the National Alert System, other than an alert described in paragraph (3), shall meet 1 or more of the following requirements:

(A) An alert shall notify the public of a hazardous situation that poses an imminent threat to the public health or safety.

(B) An alert shall provide appropriate instructions for actions to be taken by individuals affected or potentially affected by such a situation.

(C) An alert shall transmit public addresses by Federal, State, tribal, or local officials when necessary.

(D) An alert shall notify the public of when the hazardous situation has ended or has been brought under control.

(2) EVENT ELIGIBILITY REGULATIONS.—The director of the National Alert Office, in consultation with the Working Group, shall by regulation specify—

(A) the classes of events or situations for which the National Alert System may be used to alert the public; and

(B) the content of the types of alerts that may be transmitted by or through use of the National Alert System, which may include—

(i) notifications to the public of a hazardous situation that poses an imminent threat to the public health or safety accompanied by appropriate instructions for actions to be taken by individuals affected or potentially affected by such a situation; and

(ii) when technologically feasible public addresses by Federal, State, tribal, or local officials if necessary.

(3) OPT-IN PROCEDURES FOR OPTIONAL ALERTS.—The director of the Office may establish a procedure under which localized traffic, weather, community, or other non-emergency alerts may be transmitted via the National Alert System in a manner that enables them to be received only by individuals who take appropriate action to receive such alerts.

(c) ACCESS POINTS.—The National Alert System shall provide—

(1) secure, widely dispersed multiple access points to Federal, State, or local government offi-

cials with credentials that will enable them to initiate alerts for transmission to the public via the National Alert System; and

(2) system redundancies to ensure functionality in the event of partial system failures, power failures, or other interruptive events.

(d) ELECTION TO CARRY SERVICE.—

(1) AMENDMENT OF LICENSE.—Within 60 days after the date on which the National Alert Office adopts relevant technical standards based on recommendations of the Working Group, the Federal Communications Commission shall initiate a proceeding and subsequently issue an order—

(A) to allow any licensee providing commercial mobile service (as defined in section 332(d)(1) of the Communications Act of 1934 (47 U.S.C. 332(d)(1))) to transmit National Alert System alerts to all subscribers to, or users of, such service; and

(B) to require any such licensee who elects under paragraph (2) not to participate in the transmission of National Alert System alerts, to provide clear and conspicuous notice at the point of sale of any devices with which its serv-

ice is included, that it will not transmit National Alert System alerts via its service.

(2) ELECTION TO CARRY SERVICE.—

(A) IN GENERAL.—Within 30 days after the Commission issues its order under paragraph (1), each such licensee shall file an election with the Commission with respect to whether or not it intends to participate in the transmission of National Alert System alerts.

(B) PARTICIPATION.—If a licensee elects to participate in the transmission of National Alert System alerts, the licensee shall certify to the Commission that it will participate in a manner consistent with the standards and protocols implemented by the National Alert Office.

(C) ADVERTISING.—Nothing in this title shall be construed to prevent a licensee from advertising that it participates in the transmission of National Alert System alerts.

(D) WITHDRAWAL FROM OR LATER ENTRY INTO SYSTEM.—The Commission shall establish a procedure for—

(i) participating licensees to withdraw from the National Alert System upon noti-

fication of its withdrawal to its existing subscribers; and

(ii) licensees to enter the National Alert System at a date later than provided in subparagraph (A).

(E) CONSUMER CHOICE TECHNOLOGY.—Any licensee electing to participate in the transmission of National Alert System alerts may offer subscribers the capability of preventing the subscriber's device from receiving alerts broadcast by the system other than an alert issued by the President.

(3) EXPANSION OF CLASS OF LICENSEES PARTICIPATING.—The Commission, in consultation with the National Alert Office, may expand the class of licensees allowed to participate in the transmission of National Alert System alerts subject to such requirements as the Commission, in consultation with the National Alert Office, determines to be necessary or appropriate—

(A) to ensure the broadest feasible propagation of alerts transmitted by the National Alert System to the public; and

(B) to ensure that the functionality, integrity, and security of the National Alert System is not compromised.

(e) DIGITAL TELEVISION TRANSMISSION TOWERS.—

(1) RETRANSMISSION CAPABILITY.—Within 30 days after the date of enactment of this Act, the Federal Communications Commission shall initiate a proceeding to require public broadcast television licensees and permittees to install necessary equipment and technologies on, or as part of, any broadcast television digital signal transmitter to enable the transmitter to serve as a backbone for the reception, relay, and retransmission of National Alert System alerts.

(2) COMPENSATION.—The National Alert Office established by section 104 shall compensate any such licensee or permittee for costs incurred in complying with the requirements imposed pursuant to paragraph (1).

(f) LIMITATION OF LIABILITY.—Any person that participates in the transmission of National Alert System alerts and that meets its obligations under this title shall not be liable to any subscriber to, or user of, such person's service or equipment for any act or omission related to or any harm resulting from the transmission of, or failure

to transmit, a National Alert System alert to such subscriber or user.

(g) TESTING.—The director shall establish testing criteria and guidelines for licensees that elect to participate in the transmission of National Alert System alerts.

SEC. 104. NATIONAL ALERT OFFICE.

(a) ESTABLISHMENT.—

(1) IN GENERAL.—The National Alert Office is established within the National Oceanic and Atmospheric Administration.

(2) DIRECTOR.—The office shall be headed by a director with at least 5 years' operational experience in the management and issuance of warnings and alerts, hazardous event management, or disaster planning.

(3) STAFF.—The office shall have a staff with significant technical expertise in the communications industry. The director may request the detailing, with or without reimbursement, of staff from any appropriate Federal department or agency in order to ensure that the concerns of all such departments and agencies are incorporated into the daily operation of the National Alert System.

(b) FUNCTIONS AND RESPONSIBILITIES.—

(1) IN GENERAL.—The Office shall administer, operate, and manage the National Alert System.

(2) IMPLEMENTATION OF WORKING GROUP RECOMMENDATIONS.—The Office shall be responsible for implementing the recommendations of the Working Group established by section 105 regarding—

(A) the technical transmission of alerts;

(B) the incorporation of new technologies into the National Alert System;

(C) the technical capabilities of the National Alert System; and

(D) any other matters that fall within the duties of the Working Group.

(3) TRANSMISSION OF ALERTS.—In administering the National Alert System, the director of the National Alert Office shall ensure that—

(A) the National Alert System is available to, and enables, only Federal, State, tribal, or local government officials with credentials issued by the National Alert Office under section 103 to access and utilize the National Alert System;

(B) the National Alert System is capable of providing geographically targeted alerts where such alerts are appropriate;

(C) the legitimacy and authenticity of any proffered alert is verified before it is transmitted;

(D) each proffered alert complies with formats, protocols, and other requirements established by the Office to ensure the efficacy and usefulness of alerts transmitted via the National Alert System;

(E) the security and integrity of a National Alert System alert from the point of origination to delivery is maintained; and

(F) the security and integrity of the National Alert System is maintained and protected.

(c) REPORTS.—

(1) ANNUAL REPORTS.—The director shall submit an annual report to the Senate Committee on Commerce, Science, and Transportation, the House of Representatives Committee on Energy and Commerce, and the House of Representatives Committee on Science on the status of, and plans for, the Na-

tional Alert System. In the first annual report, the director shall report on—

(A) the progress made toward operational activation of the alerting capabilities of the National Alert System; and

(B) the anticipated date on which the National Alert System will be available for utilization by Federal, State, and local officials.

(2) 5-YEAR PLAN.—Within 1 year after the date of enactment of this Act and every 5 years thereafter, the director shall publish a 5-year plan that outlines future capabilities and communications platforms for the National Alert System. The plan shall serve as the long-term planning document for the Office.

(d) GAO AUDITS.—

(1) IN GENERAL.—The Comptroller General shall audit the National Alert Office every 3 years after the date of enactment of this Act and periodically thereafter and transmit the findings thereof to the Senate Committee on Commerce, Science, and Transportation, the House of Representatives Committee on Energy and Commerce, and the House of Representatives Committee on Science.

(2) RESPONSE REPORT.—If, as a result of the audit, the Comptroller General expresses concern about any matter addressed by the audit, the director of the National Alert Office shall transmit a report to the Senate Committee on Commerce, Science, and Transportation, the House of Representatives Committee on Energy and Commerce, and the House of Representatives Committee on Science describing what action, if any, the director is taking to respond to any such concern.

SEC. 105. NATIONAL ALERT SYSTEM WORKING GROUP.

(a) ESTABLISHMENT.—Not later than 60 days after the date of enactment of this Act, the director of the National Alert Office shall establish a working group, to be known as the National Alert System Working Group.

(b) MEMBERSHIP.—

(1) APPOINTMENT; CHAIR.—The director shall appoint the members of the Working Group as soon as practicable after the date of enactment of this Act and shall serve as its chair. In appointing members of the Working Group, the director shall ensure that the number of members appointed under paragraph (5) provides appropriate and adequate representation for all stakeholders and interested and affected parties.

(2) FEDERAL AGENCY REPRESENTATIVES.—The director shall appoint appropriate personnel from the National Institute of Standards and Technology, the National Oceanic and Atmospheric Administration, the Federal Communications Commission, the Federal Emergency Management Agency, the Nuclear Regulatory Commission, and the Department of Justice to serve as members of the Working Group. The director may also appoint representatives of other appropriate Federal agencies to serve as members of the Working Group .

(3) STATE AND LOCAL GOVERNMENT REPRESENTATIVES.—The director shall appoint representatives of State and local governments and representatives of emergency services personnel, selected from among individuals nominated by national organizations representing such governments and personnel, to serve as members of the Working Group.

(4) TRIBAL GOVERNMENTS.—The director shall appoint representatives from Federally recognized Indian tribes and National Indian organizations.

(5) SUBJECT MATTER EXPERTS..—The director shall appoint individuals who have the requisite technical knowledge and expertise to assist the Working

Group in the fulfillment of its duties, including representatives of—

(A) communications service providers;

(B) vendors, developers, and manufacturers of systems, facilities; equipment, and capabilities for the provision of communications services;

(C) third-party service bureaus;

(D) technical experts from the broadcasting industry;

(E) the national organization representing the licensees and permittees of noncommercial broadcast television stations; and

(F) other individuals with technical expertise that would enhance the National Alert System.

(c) DUTIES OF THE WORKING GROUP.—

(1) DEVELOPMENT OF SYSTEM-CRITICAL RECOMMENDATIONS.—Within 1 year after the date of enactment of this Act, the Working Group shall develop and transmit to the National Alert Office recommendations for—

(A) protocols, including formats, source or originator identification, threat severity, hazard description, and response requirements or rec-

ommendations, for alerts to be transmitted via the National Alert System that ensures that alerts are capable of being utilized across the broadest variety of communication technologies, at National, State, and local levels;

(B) procedures for verifying, initiating, modifying, and canceling alerts transmitted via the National Alert System;

(C) guidelines for the technical capabilities of the National Alert System;

(D) guidelines for technical capability that provides for the priority transmission of National Alert System alerts;

(E) guidelines for other capabilities of the National Alert System as specified in this title; and

(F) standards for equipment and technologies used by the National Alert System.

(2) INTEGRATION OF EMERGENCY AND NATIONAL ALERT SYSTEMS.—The Working Group shall work with the operators of nuclear power plants and other critical infrastructure facilities to integrate emergency alert systems for those facilities with the National Alert System.

(d) MEETINGS.—

(1) INITIAL MEETING.—The initial meeting of the Working Group shall take place not later than 60 days after the date of the enactment of this Act.

(2) OTHER MEETINGS.—After the initial meeting, the Working Group shall meet at the call of the chair.

(3) NOTICE; OPEN MEETINGS.—Any meetings held by the Working Group shall be duly noticed at least 14 days in advance and shall be open to the public.

(e) RESOURCES.—

(1) FEDERAL AGENCIES.—The Working Group shall have reasonable access to—

(A) materials, resources, data, and other information from the National Institute of Standards and Technology, the Department of Commerce and its agencies, the Department of Homeland Security and its bureaus, and the Federal Communications Commission; and

(B) the facilities of any such agency for purposes of conducting meetings.

(2) GIFTS AND GRANTS.—The Working Group may accept, use, and dispose of gifts or grants of services or property, both real and personal, for purposes of aiding or facilitating the work of the Work-

ing Group. Gifts or grants not used at the expiration of the Working Group shall be returned to the donor or grantor.

(f) RULES.—

(1) QUORUM.—One-third of the members of the Working Group shall constitute a quorum for conducting business of the Working Group.

(2) SUBCOMMITTEES.—To assist the Working Group in carrying out its functions, the chair may establish appropriate subcommittees composed of members of the Working Group and other subject matter experts as deemed necessary.

(3) ADDITIONAL RULES.—The Working Group may adopt other rules as needed.

(g) FEDERAL ADVISORY COMMITTEE ACT.—Neither the Federal Advisory Committee Act (5 U.S.C. App.) nor any rule, order, or regulation promulgated under that Act shall apply to the Working Group.

SEC. 106. RESEARCH AND DEVELOPMENT.

(a) IN GENERAL.—The director shall establish an extramural research and development program to support the development of technology that will enable all existing and future providers of communications services and all existing and future communications devices to be utilized effectively with the National Alert System.

(b) FUNCTIONS.—In carrying out subsection (a) the director shall—

(1) fund research and development which may include academia, the private sector, and government laboratories; and

(2) ensure that the program addresses, at a minimum—

(A) developing innovative technologies that will transmit geographically targeted emergency messages to the public;

(B) enhancing participation in the national alert system;

(C) understanding and improving public response to warnings; and

(D) enhancing the ability of local communities to integrate the National Alert System into their overall operations management.

(c) USE OF EXISTING PROGRAMS AND RESOURCES.—In developing the program, the director shall utilize existing programs and expertise of the Department of Commerce, including the National Institute of Standards and Technology.

SEC. 107. GRANT PROGRAM FOR REMOTE COMMUNITY ALERT SYSTEMS.

(a) GRANT PROGRAM.—The Undersecretary of Commerce for Oceans and Atmosphere shall establish a program under which grants may be made to provide for the installation of technologies in remote communities effectively unserved by commercial mobile radio service (as determined by the Federal Communications Commission within 180 days after the date of enactment of this Act) for the purpose of enabling residents of those communities to receive National Alert System alerts.

(b) APPLICATIONS AND CONDITIONS.—In conducting the program, the Undersecretary—

(1) shall establish a notification and application procedure; and

(2) may establish such conditions, and require such assurances, as may be appropriate to ensure the efficiency and integrity of the grant program.

(c) SUNSET.—The Undersecretary may not make grants under subsection (a) more than 5 years after the date of enactment of this Act.

SEC. 108. PUBLIC FAMILIARIZATION, OUTREACH, AND RESPONSE INSTRUCTIONS.

The director of the National Office, in consultation with the Working Group, shall conduct a program of public outreach to ensure that the public is aware of the Na-

tional Alert System and understands its capabilities and uses for emergency preparedness and response. The program shall incorporate multiple communications technologies and methods, including inserts in packaging for wireless devices, Internet websites, and the use of broadcast radio and television Non-Commercial Sustaining Announcement Programs.

SEC. 109. TELECOMMUNICATIONS INFRASTRUCTURE RESTORATION, PREPAREDNESS, AND RESPONSE.

(a) RESTORATION OF TELECOMMUNICATIONS INFRASTRUCTURE.—

(1) ELIGIBILITY FOR FEDERAL ASSISTANCE.—Section 403(a)(1) of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5170b(a)(1)) is amended to read as follows:

''(1) FEDERAL RESOURCES.—Utilizing, lending, or donating Federal equipment, supplies, facilities, personnel, and other resources (other than the extension of credit)—

''(A) to State and local governments for use or distribution by such governments in accordance with the purposes of this Act; or

''(B) to assist telecommunications service providers in the maintenance and restoration of

communications during an emergency or major disaster.''.

(2) TELECOMMUNICATIONS SERVICE PROVIDER DEFINED.—Section 102 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5122) is amended by adding the at the end the following:

''(10) TELECOMMUNICATIONS SERVICE PROVIDER.—The term 'telecommunications service provider' means a provider of telecommunications service as that term is defined in section 3(46) of the Communications Act of 1934 (47 U.S.C. 153(46)).''.

(b) TELECOMMUNICATIONS INFRASTRUCTURE PREPAREDNESS AND RESPONSE.—

(1) RESPONSIBILITIES.—Section 502(5) of the Homeland Security Act of 2002 (6 U.S.C. 312(5)) is amended by inserting ''in consultation with providers of telecommunications services (as defined in section 3(46) of the Communications Act of 1934 (47 U.S.C. 153(46))) owning or operating communications infrastructure,'' after ''authorities,''.

(2) RESPONSIBILITIES.—Section 502 of the Homeland Security Act of 2002 (6 U.S.C. 312) is amended—

(A) by striking ''and'' after the semicolon in paragraph 6);

(B) by striking ''technology.'' in paragraph (7) and inserting ''technology; and ''; and

(C) by adding at the end the following:

''(8) developing comprehensive mechanisms to work with and support critical infrastructure providers, including but not limited to providers of telecommunications services (as defined in section 3(46) of the Communications Act of 1934 (47 U.S.C. 153(46))), to ensure sufficient communications during a crisis or major disaster response.''.

SEC. 110. DEFINITIONS.

In this title:

(1) DIRECTOR.—The term ''director'' means the director of the National Alert Office.

(2) OFFICE.—The term ''Office'' means the National Alert Office established by section 104.

(3) NATIONAL ALERT SYSTEM.—The term ''National Alert System'' means the National Alert System established by section 102.

(4) NON-COMMERCIAL SUSTAINING ANNOUNCEMENT PROGRAM.—The term ''Non-Commercial Sustaining Announcement Program'' means a radio and television campaign conducted for the benefit of a

nonprofit organization or government agency using unsold commercial air time donated by participating broadcast stations for use in such campaigns, and for which the campaign's sponsoring organization or agency funds the cost of underwriting programs that serve the public convenience, interest, and necessity, as described in section 307 of the Communications Act of 1934 (47 U.S.C. 307).

(5) WORKING GROUP.—The term ''Working Group'' means the National Alert System Working Group on the established under section 105.

SEC. 111. FUNDING.

Funding for this title shall be provided from the Digital Transition and Public Safety Fund in accordance with section 5 of the Digital Transition and Public Safety Act of 2005.

TITLE II—TSUNAMI PREPAREDNESS

SEC. 201. SHORT TITLE.

This title may be cited as the ''Tsunami Preparedness Act''.

SEC. 202. FINDINGS AND PURPOSES.

(a) FINDINGS.—The Congress finds the following:

(1) Tsunami are a series of large waves of long wavelength created by the displacement of water by

violent undersea disturbances such as earthquakes, volcanic eruptions, landslides, explosions, and the impact of cosmic bodies.

(2) Tsunami have caused, and can cause in the future, enormous loss of human life, injury, destruction of property, and economic and social disruption in coastal and island communities.

(3) While 85 percent of tsunami occur in the Pacific Ocean, and coastal and island communities in this region are the most vulnerable to the destructive results, tsunami can occur at any point in any ocean or related body of water where there are earthquakes, volcanoes, or any other activity that displaces a large volume of water.

(4) A number of States and territories are subject to the threat of tsunamis, including Alaska, California, Hawaii, Oregon, Washington, American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, Puerto Rico, and the U.S. Virgin Islands.

(5) The National Oceanic and Atmospheric Administration is responsible for maintaining a tsunami detection and warning system for the Nation, issuing warnings to United States communities at

risk from tsunami, and preparing those communities to respond appropriately, through—

(A) the Pacific Tsunami Warning Center in Ewa Beach, Hawaii, which serves as a warning center for Hawaii, all other United States assets in the Pacific, and Puerto Rico;

(B) the Alaska/West Coast Tsunami Warning Center in Palmer, Alaska, which is responsible for issuing warnings for Alaska, British Columbia, California, Oregon, and Washington;

(C) the Federal-State national tsunami hazard mitigation program;

(D) a tsunami research and assessment program, including programs conducted by the Pacific Marine Environmental Laboratory;

(E) the TsunamiReady Program, which educates and prepares communities for survival before and during a tsunami;

(F) an archive of historical tsunami data, held at the National Oceanic and Atmospheric Administration's National Geophysical Data Center; and

(G) other related programs, including those operated in coordination with academic institutions.

(6) The National Oceanic and Atmospheric Administration also represents the United States as a member of the International Coordination Group for the Tsunami Warning System in the Pacific, administered by the Intergovernmental Oceanographic Commission of UNESCO, for which the Pacific Tsunami Warning Center acts as the operational center and shares seismic and water level information with 26 member states, and maintains UNESCO's International Tsunami Information Center, in Honolulu, Hawaii, which provides technical and educational assistance to member states.

(7) The Tsunami Warning Centers receive seismographic information from the Global Seismic Network, an international system of earthquake monitoring stations, from the United States Geological Survey National Earthquake Information Center, the Alaska Earthquake Information Center, and cooperative regional seismic networks, and use these data to issue tsunami warnings and integrate the information with data from their own tidal and deep ocean monitoring stations, to cancel or verify the existence of a damaging tsunami. Warnings are disseminated by the National Oceanic and Atmospheric

Administration to State emergency operation centers.

(8) Current gaps in the International Tsunami Warning System, such as the lack of regional warning systems in the Indian Ocean, the southwest Pacific Ocean, Central and South America, the Mediterranean Sea, and Caribbean, pose risks for coastal and island communities.

(9) The tragic and extreme loss of life experienced by countries in the Indian Ocean following the magnitude 9.0 earthquake and resulting tsunami in that region on December 26, 2004, illustrates the destructive consequences which can occur in the absence of an effective tsunami warning and notification system.

(10) An effective tsunami warning and notification system is part of a multi-hazard disaster warning and preparedness program and requires real-time seismic, sea level, and oceanographic data, high-speed data analysis capabilities, a high-speed tsunami warning and notification system, a sustained program of education and risk assessment to develop response strategies, and an established local infrastructure for timely and effective dissemination

of warnings to activate evacuation of tsunami hazard zones.

(11) The Tsunami Warning System for the Pacific is a model for other regions of the world to adopt, and can be expanded and modernized to increase detection, forecast, and warning capabilities for vulnerable states and territories, reduce the incidence of costly false alarms, improve reliability of measurement and assessment technology, and increase community preparedness.

(12) Tsunami warning and preparedness capability can be developed in other vulnerable areas of the world, such as the Indian Ocean, by identifying tsunami hazard zones, educating populations, developing alert and notification infrastructure, and by deploying near real-time tsunami detection sensors and gauges, establishing hazard notification and warning networks, expanding global monitoring of seismic activity, encouraging the increased exchange of seismic and tidal data between nations, and improving international coordination when a tsunami is detected.

(13) UNESCO has recognized the need to establish tsunami warning systems for regions beyond the Pacific Basin that are vulnerable to tsunami, in-

cluding the Indian Ocean, and has convened a working group to lead an effort to expand the International Tsunami Warning System in the Pacific to such vulnerable regions.

(14) The international community and all vulnerable nations should take coordinated efforts to establish and participate in regional tsunami warning systems and other hazard warnings systems developed to meet the goals of the United Nations International Strategy for Disaster Reduction.

(15) On February 16, 2005, the United States, together with 53 other Nations participating in the Third Earth Observation Summit in Brussels, Belgium, adopted a 10-year implementation plan as the basis for establishing the Global Earth Observation System of Systems.

(16) The Global Earth Observation System of Systems will consist of existing and future earth observation systems, including the United States tsunami detection and warning system.

(b) PURPOSES.—The purposes of this title are—

(1) to improve tsunami detection, forecast, warnings, notification, preparedness, and mitigation in order to protect life and property both in the United States and elsewhere in the world;

(2) to improve and modernize the existing Pacific Tsunami Warning System to increase coverage, reduce false alarms and increase accuracy of forecasts and warnings, and expand detection and warning systems to include other vulnerable States and United States territories, including the Caribbean/Atlantic/Gulf region;

(3) to increase and accelerate mapping, modeling, research, assessment, education, and outreach efforts in order to improve forecasting, preparedness, mitigation, response, and recovery of tsunami and related coastal hazards;

(4) to provide technical and other assistance to speed international efforts to establish regional tsunami warning systems in vulnerable areas worldwide, including the Indian Ocean; and

(5) to improve Federal, State, and international coordination for tsunami and other coastal hazard warnings and preparedness.

SEC. 203. TSUNAMI DETECTION AND WARNING SYSTEM.

(a) IN GENERAL.—The Administrator of the National Oceanic and Atmospheric Administration shall operate regional tsunami detection and warning systems for the Pacific Ocean region and for the Atlantic Ocean, Caribbean, and Gulf of Mexico region that will provide max-

imum detection capability for United States coastal tsunami.

(b) SYSTEM REQUIREMENTS.—

(1) PACIFIC SYSTEM.—The Pacific tsunami warning system shall cover the entire Pacific Ocean area, including the Western Pacific, the Central Pacific, the North Pacific, the South Pacific, and the East Pacific and Arctic areas.

(2) ATLANTIC, CARIBBEAN, AND GULF OF MEXICO SYSTEM.—The Atlantic, Caribbean, and Gulf system shall cover areas of the Atlantic Ocean, Caribbean Sea, and the Gulf of Mexico that the Administrator determines—

(A) to be geologically active, or to have significant potential for geological activity; and

(B) to pose measurable risks of tsunamis for States along the coastal areas of the Atlantic Ocean or the Gulf of Mexico.

(3) COMPONENTS.—The systems shall—

(A) utilize an array of deep ocean detection buoys, including redundant and spare buoys;

(B) include an associated tide gauge and water level system designed for long-term continuous operation tsunami transmission capability;

(C) allow for such additional sensors as may be necessary for tsunami and weather warnings and forecasts;

(D) provide for the establishment of a cooperative effort between the National Oceanic and Atmospheric Administration and the United States Geological Survey under which the Geological Survey and State earthquake information centers provide rapid and reliable real-time seismic information to the Administration from international and domestic seismic networks;

(E) provide for information and data processing through the tsunami warning centers established under subsection (c);

(F) be integrated into United States and global ocean and earth observing systems, including the Global Earth Observation System of Systems;

(G) provide an infrastructure, building on local systems, for at-risk tsunami communities that supports rapid and reliable alert and notification to the public, such as the National Oceanic and Atmospheric Administration's Weather, Alert, and Readiness Network, which in-

cludes the weather radio and the All Hazard Alert Broadcasting Radio; and

(H) the integration of NOAA's Advanced Weather Interactive Processing System with other technologies.

(4) FEDERAL COOPERATION.—In deploying and maintaining detection buoys utilized in the tsunami warning system, the Administrator should leverage the assistance and assets of the United States Coast Guard, the Navy, and other Federal agency assets in the region. Within 180 days after the date of enactment of this Act, the Administrator shall provide a report to the Senate committee on Commerce, Science, and Transportation, the House of Representatives Committee on Science, and the House of Representatives Committee on Resources that summarizes the extent to which the United States Coast Guard or any other Federal agency is assistance in deploying and maintaining such buoys.

(c) TSUNAMI WARNING CENTERS.—

(1) IN GENERAL.—The Administrator shall establish tsunami warning centers to provide a link between the detection and warning system and the tsunami hazard mitigation program established under section 204 including—

(A) a Pacific Tsunami Warning Center in Hawaii;

(B) a West Coast and Alaska Tsunami Warning Center in Alaska; and

(C) any additional warning centers determined by the Administrator to be necessary.

(2) RESPONSIBILITIES.—The responsibilities of each tsunami warning center shall include—

(A) continuously monitoring data from seismological stations, deep ocean detection buoys, and tidal monitoring stations and providing such data to the national tsunami archive;

(B) evaluating earthquakes that have the potential to generate tsunami;

(C) evaluating deep ocean buoy data and tidal monitoring stations for indications of tsunami resulting from sources other than earthquakes; and

(D) disseminating information and warning bulletins appropriate for local and distant tsunamis to government agencies and the public and alerting potentially impacted coastal areas for evacuation.

(d) DATA MANAGEMENT.—The Administrator shall maintain national and regionally-based data management systems to support and establish data management requirements for the tsunami detection and monitoring system, including requirements for—

(1) quality control and quality assurance;

(2) archiving and maintaining data;

(3) supporting integration of observations from the system with other national and international water level measurements, such as the Global Sea Level Monitoring System;

(4) integration of observations from the system with other elements of the global and coastal components of the integrated ocean and coastal observing system and the Global Earth Observation System of Systems; and

(5) the development of and access to data sets and integrated data products designed to support multi-hazard regional vulnerability assessment and adaptation programs such as the program established under section 208.

SEC. 204. TSUNAMI HAZARD MITIGATION PROGRAM.

(a) IN GENERAL.—The Administrator of the National Oceanic and Atmospheric Administration shall, in coordination with other agencies and academic institu-

tions, develop and conduct a community-based tsunami hazard mitigation program to improve tsunami preparedness of at-risk areas.

(b) COORDINATING COMMITTEE.—In developing and conducting the program, the Administrator shall establish a coordinating committee comprising representatives of Federal agencies and other governmental entities involved in tsunami mitigation and response, including—

(1) the National Oceanic and Atmospheric Administration;

(2) the United States Geological Survey;

(3) the National Science Foundation;

(4) the National Institute of Standards and Technology; and

(5) affected coastal States and territories.

(c) PROGRAM COMPONENTS.—The program shall—

(1) improve the quality and extent of inundation mapping, including assessment of vulnerable inner coastal areas;

(2) promote and improve community outreach and education networks and programs to ensure community awareness and readiness, including the development of multi-hazard risk and vulnerability assessment training and decision support tools, implementation of technical training and public edu-

cation programs, and provide for certification of prepared communities;

(3) integrate tsunami awareness, preparedness, and mitigation programs into ongoing hazard warning and risk management programs in affected areas including the National Response Plan and State coastal zone management plans;

(4) promote the adoption of tsunami warning and mitigation measures by Federal, State, tribal, and local governments and non-governmental entities through a grant program for training, development of guidelines, and other purposes;

(5) develop tsunami specific rescue and recovery guidelines for the National Response Plan, including long-term mitigation measures, educational programs regarding the consequences of development in high-risk areas, and use of remote sensing and other technology in rescue and recovery operations;

(6) require budget coordination, through the Administration, to carry out the purposes of this title and to ensure that participating agencies provide necessary funds for matters within their respective areas of authority and expertise; and

(7) provide for periodic external review of the program and for inclusion of the results of such reviews in the report required by section 206(e).

SEC. 205. TSUNAMI RESEARCH PROGRAM.

(a) ESTABLISHMENT.—The Administrator of the National Oceanic and Atmospheric Administration shall, in coordination with other agencies and academic institutions, establish a tsunami research program to develop detection, prediction, communication, and mitigation science and technology that supports tsunami forecasts and warnings, including advanced sensing techniques, information and communication technology, data collection, analysis and assessment for tsunami tracking and numerical forecast modeling that will—

(1) help determine—

(A) whether an earthquake or other seismic event will result in a tsunami; and

(B) the likely path, severity, duration, and travel time of a tsunami;

(2) develop techniques and technologies that may be used to communicate tsunami forecasts and warnings as quickly and effectively as possible to affected communities;

(3) develop techniques and technologies to support evacuation products, including real-time notice

of the condition of critical infrastructure along tsunami evacuation routes for public officials and first responders; and

(4) develop techniques for utilizing remote sensing technologies in rescue and recovery operations.

(b) TECHNOLOGY.—The Administrator, in consultation with other appropriate Federal agencies, shall investigate the potential for improved technology for tsunami and other hazard warnings by incorporating into the existing system a full range of options for providing those warnings to the public.

SEC. 206. TSUNAMI SYSTEM UPGRADE AND MODERNIZATION.

(a) SYSTEM UPGRADES.—The Administrator of the National Oceanic and Atmospheric Administration shall—

(1) authorize and direct the immediate repair of existing deep ocean detection buoys and related components of the system;

(2) ensure the deployment of an array of deep ocean detection buoys capable of carrying multi-observation technology in the regions described in section 203(a) of this title;

(3) ensure expansion or upgrade of the seismic monitoring and tide gauge networks in the regions described in section 203(a); and

(4) complete the upgrades not later than December 31, 2007.

(b) TRANSFER OF TECHNOLOGY; MAINTENANCE AND UPGRADES.—In carrying out this section, the Administrator shall—

(1) promulgate specifications and standards for forecast, detection, and warning systems, including detection equipment;

(2) develop and execute a plan for the transfer of technology from ongoing research to long-term operations;

(3) ensure that detection equipment is maintained in operational condition to fulfill the forecasting, detection and warning requirements of the regional tsunami detection and warning systems;

(4) obtain, to the greatest extent practicable, priority treatment in budgeting for, acquiring, transporting, and maintaining weather sensors, tide gauges, water level gauges, and tsunami buoys incorporated into the system including obtaining ship time; and

(5) ensure integration of the tsunami detection system with other United States and global ocean and coastal observation systems, the Global Earth

Observation System of Systems, global seismic networks, and the Advanced National Seismic System.

(c) CERTIFICATION.—Amounts appropriated for any fiscal year pursuant to section 209 to carry out this section may not be obligated or expended for the acquisition of services for construction or deployment of tsunami detection equipment unless the Administrator certifies in writing to the Senate Committee on Commerce, Science, and Transportation, the House of Representatives Committee on Science, and the House of Representatives Committee on Resources within 60 calendar days after the date on which the President submits the Budget of the United States for that fiscal year to the Congress that—

(1) each contractor for such services has met the requirements of the contract for such construction or deployment;

(2) the equipment to be constructed or deployed is capable of becoming fully operational without the obligation or expenditure of additional appropriated funds; and

(3) the Administrator does not reasonably foresee unanticipated delays in the deployment and operational schedule specified in the contract.

(d) CONGRESSIONAL NOTIFICATIONS.—The Administrator shall notify the Senate Committee on Commerce,

Science, and Transportation, the House of Representatives Committee on Science, and the House of Representatives Committee on Resources of—

(1) impaired regional detection coverage due to equipment or system failures; and

(2) significant contractor failures or delays in completing work associated with the tsunami detection and warning system.

(e) ANNUAL REPORT.—The Administrator shall transmit an annual report to the Senate Committee on Commerce, Science, and Transportation and the House of Representatives Committee on Science the status of the tsunami detection and warning system, including accuracy, false alarms, equipment failures, improvements over the previous year, and goals for further improvement (or plans for curing failures) of the system, as well as progress and accomplishments of the national tsunami hazard mitigation program.

(f) EXTERNAL REVIEW.—The National Academy of Science shall review the tsunami detection, forecast, and warning system operated by the National Oceanic and Atmospheric Administration under this title to assess further modernization and coverage needs, as well as long-term operational reliability issues, taking into account measures implemented under this title, and transmit a report con-

taining its recommendations, including an estimate of the costs of implementing those recommendations, to the Senate Committee on Commerce, Science, and Transportation and the House of Representatives Committee on Science within 24 months after the date of enactment of this Act.

SEC. 207. GLOBAL TSUNAMI WARNING AND MITIGATION NETWORK.

(a) INTERNATIONAL TSUNAMI WARNING SYSTEM.—The Administrator of the National Oceanic and Atmospheric Administration, in coordination with other members of the United States Interagency Committee of the National Tsunami Mitigation Program, shall provide technical assistance and advice to the Intergovernmental Oceanographic Commission of UNESCO, the World Meteorological Organization, the Group on Earth Observations, and other international entities, as part of international efforts to develop a fully functional global tsunami warning system comprised of regional tsunami warning networks, modeled on the International Tsunami Warning System of the Pacific, and consistent with the 10-year implementation plan for the Global Earth Observation System of Systems.

(b) INTERNATIONAL TSUNAMI INFORMATION CENTER.—The Administrator shall operate an International Tsunami Information Center to improve tsunami pre-

paredness for all Pacific Ocean nations participating in the International Tsunami Warning System of the Pacific, and which may also provide such assistance to other nations participating in a global tsunami warning system established through the International Oceanographic Committee of UNESCO. As part of its responsibilities in the Pacific, the Center shall—

(1) monitor international tsunami warning activities in the Pacific;

(2) assist member states in establishing national warning systems, and make information available on current technologies for tsunami warning systems;

(3) maintain a library of materials to promulgate knowledge about tsunamis in general and for use by the scientific community; and

(4) disseminate information, including educational materials and research reports.

(c) TECHNICAL ASSISTANCE.—In carrying out this section, the Administrator—

(1) shall give priority to assisting nations in identifying vulnerable coastal areas, creating inundation maps, obtaining or designing real-time detection and reporting equipment, and establishing commu-

nication and warning networks and contact points in each vulnerable nation;

(2) may establish a process for transfer of detection and communication technology to affected nations for the purposes of establishing the international tsunami warning system; and

(3) shall provide technical and other assistance to support international tsunami education, response, vulnerability, and adaptation programs.

(d) DATA-SHARING REQUIREMENT.—The Administrator may not provide assistance under this section for any region unless all affected nations in that region participating in the tsunami warning network agree to share relevant data associated with the development and operation of the network.

(e) FUNDING ASSISTANCE.—The Administrator, in coordination with the Secretary of State, shall seek funding assistance from participating nations needed to ensure establishment of a fully functional global tsunami warning system.

(f) RECEIPT OF INTERNATIONAL REIMBURSEMENT AUTHORIZED.—The Administrator may accept payment to, or reimbursement of, the National Oceanic and Atmospheric Administration in cash or in kind from international organizations and foreign authorities, or payment

or reimbursement made on behalf of such an authority, for expenses incurred by the Administrator in carrying out any activity under this title. Any such payments or reimbursements shall be considered a reimbursement to the appropriated funds of the Administration.

SEC. 208. COASTAL COMMUNITY VULNERABILITY AND ADAPTATION PROGRAM.

(a) ESTABLISHMENT.—The Administrator of the National Oceanic and Atmospheric Administration shall establish an integrated coastal vulnerability and adaptation program focused on improving the resilience of coastal communities to natural hazards and disasters. The program shall be regional in nature, build upon and integrate existing Federal and State programs, and provide usable products that will improve preparedness of communities, businesses, and government entities. The program may include the following activities:

(1) Development of multi-hazard vulnerability maps to characterize and assess risks of coastal communities to a range of natural hazards and provide a baseline for assessing future risks.

(2) Multi-disciplinary vulnerability assessment research and education that will help integrate risk management with community development planning and policies.

(3) Risk management and leadership training for the public, local officials, and institutions that will enhance understanding and preparedness.

(4) Risk assessment technology development, including research and development of emerging technologies and practical application of existing or emerging technologies, such as modeling, remote sensing, geospatial technology, engineering, and observing systems.

(5) Risk management data and information services, including access to data and products derived from observing and detection systems, as well as development and maintenance of new integrated data products that would support risk assessment and risk management programs.

(6) Risk notification systems that coordinate with and build upon existing systems and actively engage policy officials, government agencies, businesses, communities, non-governmental organizations, and the media.

(b) REGIONAL PILOT PROJECTS.—

(1) In general.—Within 1 year after the date of enactment of this Act, the Administrator shall, in consultation with the appropriate Federal, State, tribal, and local governmental entities, establish 3

pilot projects to conduct regional assessments of the vulnerability of coastal areas of the United States to hazards associated with tsunami and other natural hazards or coastal disasters. Priority shall be given to collaborative partnership proposals from regionally-based multi-organizational coalitions. In preparing the regional assessments, the Administrator shall collect and compile current information on tsunami and other natural hazards or coastal disasters.

(2) SCOPE.—Regional assessments under the pilot program shall include an evaluation of—

(A) the social impacts associated with threats to and potential losses of housing, communities, and infrastructure;

(B) the physical impacts such as coastal erosion, flooding and loss of estuarine habitat, saltwater intrusion of aquifers and saltwater encroachment, and species migration;

(C) the economic impact on local, State, tribal, and regional economies, including the impact on coastal infrastructure and the abundance or distribution of economically important living marine resources; and

(D) opportunities to enhance the resilience of at-risk communities, economic sectors, and natural resources.

(c) SELECTION CRITERIA.—The Administrator shall rely on the following criteria in identifying appropriate regional pilot projects:

(1) Vulnerability to tsunami and other natural hazards or coastal disasters.

(2) Dependence on economic sectors and natural resources that are particularly sensitive to coastal hazards.

(3) Opportunities to link and leverage related regional risk observation, research, forecasting, assessment, educational and risk management programs.

(4) Demonstration of strong, interagency collaboration in the area of risk management for tsunami and other natural hazards or coastal disasters.

(5) Access to NOAA and other Federal agency programs, facilities, and infrastructure related to tsunami and other coastal hazards monitoring, warning, forecasting, research assessment, and data management.

(d) REGIONAL ADAPTATION PLANS.—The Administrator shall, within 3 years after the commencement of

each project under subsection (b), submit to the Congress regional adaptation plans—

(1) based on the information contained in the regional assessments conducted under subsection (b);

(2) developed with the participation of other Federal agencies, State, tribal, and local government agencies, and non-governmental entities (including academia and the private sector) that will be critical in the implementation of the plan at the State, tribal, and local levels;

(3) that recommend targets and strategies to address impacts associated with tsunami and other natural hazards or coastal disasters;

(4) that include recommendations for both short- and long-term adaptation strategies; and

(5) that include recommendations on—

(A) Federal flood insurance program modifications;

(B) areas that have been identified as high risk through mapping and assessment;

(C) enhancing the effectiveness of State coastal zone management programs in mitigating or preventing coastal risks;

(D) mitigation incentives such as rolling easements, strategic retreat, State or Federal acquisition in fee simple or other interest in land, construction standards, and zoning;

(E) land and property owner education;

(F) economic planning for small communities dependent upon affected coastal resources, including fisheries; and

(G) funding requirements and mechanisms.

(e) TECHNICAL PLANNING AND FINANCIAL ASSISTANCE.—The Administrator, through the National Ocean Service, shall establish a coordinated program—

(1) to provide technical planning assistance and financial assistance to coastal States, tribes, and local governments as they develop and implement adaptation or mitigation strategies and plans under this section; and

(2) to make products, information, tools, and technical expertise generated from the development of the regional assessment and the regional adaptation plan available to coastal States for the purposes of developing their own State, tribal, and local plans.

SEC. 209. AUTHORIZATION OF APPROPRIATIONS.

(a) IN GENERAL.—There are authorized to be appropriated to the Administrator of the National Oceanic and Atmospheric Administration—

(1) $35,000,000 for each of fiscal years 2006 through 2012 to carry out this title (other than section 208); and

(2) $5,000,000 for each of such fiscal years to carry out section 208, of which at least $3,000,000 for each fiscal year shall be used to carry out the pilot projects authorized by section 208(b).

(b) FUNDING.—The Secretary of Commerce is authorized to use amounts from the Digital Transition and Public Safety Fund in accordance with section 5 of the Digital Transition and Public Safety Act of 2005 to carry out this title as an offsetting collection in, and credited to, the account providing appropriations to carry out this title.

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