# **NFPA 1600**

# Standard on Disaster/Emergency Management and Business Continuity Programs

2007 Edition



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#### **NFPA 1600**

#### Standard on

## Disaster/Emergency Management and Business Continuity Programs

#### 2007 Edition

This edition of NFPA 1600, Standard on Disaster/Emergency Management and Business Continuity Programs, was prepared by the Technical Committee on Emergency Management and Business Continuity. It was issued by the Standards Council on December 1, 2006, with an effective date of December 20, 2006, and supersedes all previous editions.

This edition of NFPA 1600 was approved as an American National Standard on December 20, 2006.

## Origin and Development of NFPA 1600

The NFPA Standards Council established the Disaster Management Committee in January 1991. The committee was given the responsibility for developing documents relating to preparedness for, response to, and recovery from disasters resulting from natural, human, or technological events.

The first document that the committee focused on was NFPA 1600, *Recommended Practice for Disaster Management*. NFPA 1600 was presented to the NFPA membership at the 1995 Annual Meeting in Denver, CO. That effort produced the 1995 edition of NFPA 1600.

For the 2000 edition, the committee incorporated a "total program approach" for disaster/emergency management and business continuity programs in its revision of the document from a recommended practice to a standard. They provided a standardized basis for disaster/emergency management planning and business continuity programs in private and public sectors by providing common program elements, techniques, and processes. The committee provided expanded provisions for enhanced capabilities for disaster/emergency management and business continuity programs so that the impacts of a disaster would be mitigated, while protecting life and property. The chapters were expanded to include additional material relating to disaster/emergency management and business continuity programs. The annex material was also expanded to include additional explanatory material.

For the 2004 edition, the committee updated terminology and editorially reformatted the document to follow the 2003 *Manual of Style for NFPA Technical Committee Documents*; however, the basic features of the standard remained unchanged. In addition, the committee added a table in Annex A that created a crosswalk among FEMA CAR, NFPA 1600, and BCI & DRII professional practices. The committee added significant informational resources to Annexes B, C, D, and E.

The document continues to be developed in cooperation and coordination with representatives from FEMA, NEMA, and IAEM. This coordinated effort was reflected in the expansion of the title of the standard for the 2000 edition to include both disaster and emergency management, as well as information on business continuity programs.

The 2007 edition incorporates changes to the 2004 edition, expanding the conceptual framework for disaster/emergency management and business continuity programs. Previous editions of the standard focused on the four aspects of mitigation, preparedness, response, and recovery. This edition identifies prevention as a distinct aspect of the program, in addition to the other four. Doing so brings the standard into alignment with related disciplines and practices of risk management, security, and loss prevention.

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Committee Scope: This Committee shall have primary responsibility for documents on preparedness for, response to, and recovery from disasters resulting from natural, human, or technological events.

**1600**–3 CONTENTS

## Contents

Chapter	1 Administration	1600-	4	5.6	Resource Management and Logistics	1600-
1.1	Scope	1600-	4	5.7	Mutual Aid/Assistance	1600- 6
1.2	Purpose	1600-	4	5.8	Planning	1600-
1.3	Application	1600-	4	5.9	Incident Management	
	• •			5.10	Communications and Warning	
Chapter	2 Referenced Publications	1600-	4	5.11	Operational Procedures	
2.1	General	1600-	4	5.12	Facilities	
2.2	NFPA Publications (Reserved)	1600-	4	5.13	Training	
2.3	Other Publications	1600-	4		Exercises, Evaluations, and Corrective	
2.4	References for Extracts in Mandatory			0.11	Actions	1600-
	Sections	1600-	4	5.15	Crisis Communication and Public	
				0.10	Information	1600-
Chapter	3 Definitions			5.16	Finance and Administration	
3.1	General					
3.2	NFPA Official Definitions	1600-	4	Annex A	Explanatory Material	1600- 8
3.3	General Definitions	1600-	4		•	
		1000		Annex B	, , ,	
	4 Program Management				<b>Business Continuity Related</b>	
4.1	Program Administration				Organizations	<b>1600</b> –16
4.2	Program Coordinator	1600-	5	. ~		1000 0
4.3	Advisory Committee	1600-	5	Annex C	Additional Resources	1600-34
4.4	Program Evaluation	1600-	5	Annex D	Emaggary Managament Acapaditation	
				Aimex D	9 , 9	1600 4
Chapter	5 Program Elements	1600-	5		and Certification Programs	1000-4
5.1	General	1600-	5	Anney F	Incident Management System (IMS)	1600_4
5.2	Laws and Authorities	1600-	5	mica E	meident management system (1143)	1000 1
5.3	Risk Assessment	1600-	5	Annex F	Informational References	1600-4
5.4	Incident Prevention	1600-	5			
5.5	Mitigation	1600_	6	Indev		1600_50

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NOTICE: An asterisk (\*) following the number or letter designating a paragraph indicates that explanatory material on the paragraph can be found in Annex A.

A reference in brackets [] following a section or paragraph indicates material that has been extracted from another NFPA document. As an aid to the user, the complete title and edition of the source documents for extracts in mandatory sections of the document are given in Chapter 2 and those for extracts in informational sections are given in Annex F. Editorial changes to extracted material consist of revising references to an appropriate division in this document or the inclusion of the document number with the division number when the reference is to the original document. Requests for interpretations or revisions of extracted text shall be sent to the technical committee responsible for the source document.

Information on referenced publications can be found in Chapter 2 and Annex F.

## Chapter 1 Administration

- **1.1\* Scope.** This standard shall establish a common set of criteria for disaster/emergency management and business continuity programs hereinafter referred to as the program.
- **1.2 Purpose.** This standard shall provide disaster and emergency management and business continuity programs, the criteria to assess current programs or to develop, implement, and maintain aspects for prevention, mitigation, preparation, response, and recovery from emergencies.
- 1.3\* Application. This document shall apply to public, not-for-profit, and private entities.

## **Chapter 2 Referenced Publications**

- **2.1 General.** The documents or portions thereof listed in this chapter are referenced within this standard and shall be considered part of the requirements of this document.
- 2.2 NFPA Publications. (Reserved)
- 2.3 Other Publications.

Merriam-Webster's Collegiate Dictionary, 11th edition, Merriam-Webster, Inc., Springfield, MA, 2003.

### 2.4 References for Extracts in Mandatory Sections.

NFPA 1561, Standard on Emergency Services Incident Management System, 2005 edition.

## **Chapter 3 Definitions**

**3.1 General.** The definitions contained in this chapter shall apply to the terms used in this standard. Where terms are not defined in this chapter or within another chapter, they shall be defined using their ordinarily accepted meanings within the context in which they are used. *Merriam-Webster's Collegiate Dictionary*, 11th edition, shall be the source for the ordinarily accepted meaning.

#### 3.2 NFPA Official Definitions.

- **3.2.1\* Approved.** Acceptable to the authority having jurisdiction.
- **3.2.2\* Authority Having Jurisdiction (AHJ).** An organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, an installation, or a procedure.
- **3.2.3 Shall.** Indicates a mandatory requirement.
- **3.2.4 Should.** Indicates a recommendation or that which is advised but not required.
- **3.2.5 Standard.** A document, the main text of which contains only mandatory provisions using the word "shall" to indicate requirements and which is in a form generally suitable for mandatory reference by another standard or code or for adoption into law. Nonmandatory provisions shall be located in an appendix or annex, footnote, or fine-print note and are not to be considered a part of the requirements of a standard.

## 3.3 General Definitions.

- **3.3.1\* Business Continuity.** An ongoing process supported by senior management and funded to ensure that the necessary steps are taken to identify the impact of potential losses, maintain viable recovery strategies, recovery plans, and continuity of services.
- **3.3.2 Damage Assessment.** An appraisal or determination of the effects of the disaster on human, physical, economic, and natural resources.
- **3.3.3 Disaster/Emergency Management.** An ongoing process to prevent, mitigate, prepare for, respond to, and recover from an incident that threatens life, property, operations, or the environment.
- **3.3.4 Emergency Management Program.** A program that implements the mission, vision, and strategic goals and objectives as well as the management framework of the program and organization.
- **3.3.5 Entity.** A governmental agency or jurisdiction, private or public company, partnership, nonprofit organization, or other organization that has emergency management and continuity of operations responsibilities.
- **3.3.6\* Impact Analysis [Business Impact Analysis (BIA)].** A management level analysis that identifies the impacts of losing the entity's resources.
- **3.3.7 Incident Action Plan.** A verbal plan, written plan, or combination of both, that is updated throughout the incident



and reflects the overall incident strategy, tactics, risk management, and member safety that are developed by the incident commander. [1561, 2005]

- **3.3.8\* Incident Management System (IMS).** The combination of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure, designed to aid in the management of resources during incidents.
- **3.3.9 Mitigation.** Activities taken to reduce the severity or consequences of an emergency.
- **3.3.10\*** Mutual Aid/Assistance Agreement. A prearranged agreement between two or more entities to share resources in response to an incident.
- **3.3.11 Preparedness.** Activities, tasks, programs, and systems developed and implemented prior to an emergency that are used to support the prevention of, mitigation of, response to, and recovery from emergencies.
- **3.3.12\* Prevention.** Activities to avoid an incident or to stop an emergency from occurring.
- **3.3.13\* Recovery.** Activities and programs designed to return conditions to a level that is acceptable to the entity.
- **3.3.14 Resource Management.** A system for identifying available resources to enable timely and unimpeded access to resources needed to prevent, mitigate, prepare for, respond to, or recover from an incident.
- **3.3.15\* Response.** Immediate and ongoing activities, tasks, programs, and systems to manage the effects of an incident that threatens life, property, operations, or the environment.
- **3.3.16 Situation Analysis.** The process of evaluating the severity and consequences of an incident and communicating the results.
- **3.3.17 Stakeholder.** Any individual, group, or organization that might affect, be affected by, or perceive itself to be affected by the emergency.

### Chapter 4 Program Management

- **4.1 Program Administration.** The entity shall have a documented program that includes the following:
- (1) Executive policy including vision, mission statement, roles and responsibilities, and enabling authority
- Program goals, objectives, and method of program evaluation
- (3)\*Program plan and procedures
- (4) Applicable authorities, legislation, regulations, and/or industry codes of practice
- (5) Program budget and project schedule, including milestones
- (6) Records management practices
- **4.2\* Program Coordinator.** The program coordinator shall be appointed by the entity and authorized to administer and keep current the program.

## 4.3\* Advisory Committee.

- **4.3.1\*** An advisory committee shall be established by the entity in accordance with its policy.
- **4.3.2** The advisory committee shall provide input to or assist in the coordination of the preparation, implementation, evaluation, and revision of the program.

**4.3.3** The advisory committee shall include the program coordinator and others who have the appropriate expertise, knowledge of the entity, and the capability to identify resources from all key functional areas within the entity and shall solicit applicable external representation.

#### 4.4 Program Evaluation.

- **4.4.1** The entity shall establish performance objectives for program management addressed in Chapter 4 and program elements identified in Chapter 5.
- **4.4.2** The entity shall conduct a periodic evaluation of the program based on the objectives.

## **Chapter 5 Program Elements**

## 5.1\* General.

- **5.1.1** The program shall include the elements given in Sections 5.2 through 5.16, the scope of which shall be determined by the impact of the hazards affecting the entity.
- **5.1.2\*** The program elements shall be applicable to prevention, mitigation, preparedness, response, and recovery.

#### 5.2 Laws and Authorities.

- **5.2.1\*** The program shall comply with applicable legislation, policies, regulatory requirements, and directives.
- **5.2.2\*** The entity shall implement a strategy for addressing the need for revisions to legislation, regulations, directives, policies, and industry codes of practice.

#### 5.3\* Risk Assessment.

- **5.3.1\*** The entity shall identify hazards, monitor those hazards, the likelihood of their occurrence, and the vulnerability of people, property, the environment, and the entity itself to those hazards.
- **5.3.2\*** Hazards to be evaluated shall include the following:
- (1) Natural hazards (geological, meteorological, and biological)
- (2) Human-caused events (accidental and intentional)
- (3) Technological-caused events
- **5.3.3\*** The entity shall conduct an impact analysis to determine potential detrimental impacts of the hazards on the following:
- (1) Health and safety of persons in the affected area at the time of the incident (injury and death)
- (2) Health and safety of personnel responding to the incident
- (3)\*Continuity of operations
- (4) Property, facilities, and infrastructure
- (5) Delivery of services
- (6) The environment
- (7)\*Economic and financial condition
- (8) Regulatory and contractual obligations
- (9) Reputation of or confidence in the entity
- (10)\*Regional, national, and international considerations

### 5.4 Incident Prevention.

**5.4.1\*** The entity shall develop a strategy to prevent an incident that threatens people, property, and the environment.



- **5.4.2\*** The prevention strategy shall be based on the information obtained from Section 5.3 and shall be kept current using the techniques of information collection and intelligence.
- **5.4.3** The entity shall have a system to monitor the identified hazards and adjust the level of preventative measures to be commensurate with the risk.

### 5.5 Mitigation.

- **5.5.1\*** The entity shall develop and implement a mitigation strategy that includes measures to be taken to limit or control the consequences, extent, or severity of an incident that cannot be reasonably prevented.
- **5.5.2\*** The mitigation strategy shall be based on the results of hazard identification and risk assessment, impact analysis, program constraints, operational experience, and cost-benefit analysis.
- **5.5.3** The mitigation strategy shall include interim and long-term actions to reduce vulnerability.

#### 5.6\* Resource Management and Logistics.

- **5.6.1** The entity shall establish resource management objectives consistent with the overall program goals and objectives as identified in Section 4.1 for the hazards as identified in Section 5.3.
- **5.6.2** The entity shall establish procedures to locate, acquire, store, distribute, maintain, test, and account for services, personnel, resources, materials, and facilities procured or donated to support the program.
- **5.6.3** The resource management objectives established shall include the following:
- Personnel, equipment, training, facilities, funding, expert knowledge, materials, technology, information, intelligence, and the time frames within which they will be needed
- (2) Quantity, response time, capability, limitations, cost, and liability connected with using the involved resources
- (3) Resources and any needed partnership arrangements essential to the program
- **5.6.4** Resource management shall include the following tasks:
- (1) Establishing processes for describing, inventorying, requesting, and tracking resources
- (2) Activating these processes prior to and during an incident
- (3) Dispatching resources prior to and during an incident
- (4) Deactivating or recalling resources during or after incidents
- (5) Contingency planning for shortfalls of resources
- **5.6.5** An assessment shall be conducted to identify the resource capability shortfalls and the steps necessary to overcome any shortfalls.
- **5.6.6** A current inventory of internal and external resources shall be maintained.
- **5.6.7** Donations of goods, services, personnel, and facilities, solicited and unsolicited, and the management thereof, shall be addressed.

## 5.7\* Mutual Aid/Assistance.

- **5.7.1** The need for mutual aid/assistance shall be determined.
- **5.7.2** If mutual aid/assistance is needed, agreements shall be established.

**5.7.3** Mutual aid/assistance agreements shall be referenced in the program plan.

#### 5.8 Planning.

#### 5.8.1 Planning Process.

- **5.8.1.1** The program shall follow a planning process that develops plans for the strategy, prevention, mitigation, emergency operations/response, business continuity, and recovery.
- **5.8.1.2** The entity shall engage in the planning process on a regularly scheduled basis or when the situation has changed to put the accuracy of the existing plan into question.
- **5.8.1.3** Where applicable, the entity shall include key stakeholders in the planning process.

#### 5.8.2 Common Plan Elements.

- **5.8.2.1** Plans shall have clearly stated objectives.
- **5.8.2.2** Plans shall identify functional roles and responsibilities of internal and external agencies, organizations, departments, and positions.
- **5.8.2.3** Plans shall identify lines of authority for these agencies, organizations, departments, and positions.
- **5.8.2.4** Plans shall identify logistics support and resource requirements.
- **5.8.2.5** Plans shall identify the process for managing an incident.
- **5.8.2.6** Plans shall identify the process for managing the communication and flow of information, both internally and externally.

## 5.8.3 Plans.

- **5.8.3.1\*** The program shall include a strategic plan, an emergency operations/response plan, a prevention plan, a mitigation plan, a recovery plan, and a continuity plan.
- **5.8.3.2\*** The plans developed shall be either individual or integrated into a single plan document, or a combination of the two.
- **5.8.3.3\*** The strategic plan shall define the vision, mission, goals, and objectives of the program. (*See Section 4.1.*)
- **5.8.3.4\*** The emergency operations/response plan shall assign responsibilities for carrying out specific actions in an emergency.
- **5.8.3.5** The prevention plan shall establish interim and long-term actions to eliminate hazards that impact the entity.
- **5.8.3.6** The mitigation plan shall establish interim and long-term actions to reduce the impact of hazards that cannot be eliminated.
- **5.8.3.7\*** The recovery plan shall provide for short-term and long-term priorities for restoration of functions, services, resources, facilities, programs, and infrastructure.
- **5.8.3.8\*** The continuity plan shall identify stakeholders that need to be notified, the critical and time-sensitive applications, alternative work sites, vital records, contact lists, processes, and functions that shall be maintained, as well as the personnel, procedures, and resources that are needed while the entity is recovering.
- **5.8.3.9** The entity shall make appropriate sections of the plans available to those assigned specific tasks and responsibilities therein and to other stakeholders as required.



#### 5.9 Incident Management.

- **5.9.1\*** The entity shall develop an incident management system to direct, control, and coordinate response and recovery operations.
- **5.9.2\*** The incident management system shall describe specific organizational roles, titles, and responsibilities for each incident management function.
- **5.9.3** The entity shall establish applicable procedures and policies for coordinating response, continuity, and recovery activities with stakeholders directly involved in response, continuity, and recovery operations.
- **5.9.4** The entity shall establish applicable procedures and policies for coordinating response, continuity, and recovery activities with appropriate authorities and resources, including activation and deactivation of plans, while ensuring compliance with applicable statutes or regulations.
- **5.9.5\*** Emergency operations/response shall be guided by an incident action plan or management by objectives.

#### 5.10 Communications and Warning.

- **5.10.1** Communications systems shall be established and regularly tested to support the program.
- **5.10.2** Communication procedures shall be established by the entity and regularly exercised to support the program.
- **5.10.3\*** The entity shall develop and maintain the capability to alert officials and emergency response personnel.
- **5.10.4** Emergency communications and warning protocols, systems, processes, and procedures shall be developed, periodically tested, and used to alert people potentially impacted by an actual or impending emergency.
- **5.10.5** The entity shall determine communication needs, provide capabilities to execute plans, and review and address the interoperability of multiple responding organizations.

#### 5.11\* Operational Procedures.

- **5.11.1** The entity shall develop, coordinate, and implement operational procedures to support the program and execute its plans.
- **5.11.2\*** Procedures shall be established and implemented for response to and recovery from the consequences of those hazards identified in Section 5.3 and shall address health and safety, incident stabilization, operational/business continuity, property conservation, and protection of the environment under the jurisdiction of the entity.
- **5.11.3** Procedures, including life safety, incident stabilization, operational/business continuity, and property conservation, shall be established and implemented for response to, and recovery from, the consequences of those hazards identified in Section 5.3.
- **5.11.4\*** Procedures shall be in place to conduct a situation analysis that includes a needs assessment, damage assessment, and the identification of resources needed to support response and recovery operations.
- **5.11.5** Procedures shall allow for concurrent recovery and mitigation activities during emergency response.
- **5.11.6** Procedures shall be established for succession of management/government as required in 5.8.3.8.

#### 5.12 Facilities.

- **5.12.1\*** The entity shall establish a primary and an alternate emergency operations center, physical or virtual, capable of managing continuity, response, and recovery operations.
- **5.12.2** Facilities capable of supporting continuity, response, and recovery operations shall be identified.

#### 5.13 Training.

- **5.13.1** The entity shall develop and implement a training/educational curriculum to support the program.
- **5.13.2** The objective of the training shall be to create awareness and enhance the skills required to develop, implement, maintain, and execute the program.
- **5.13.3** Frequency and scope of training shall be identified.
- **5.13.4** Personnel shall be trained in the entity's incident management system.
- **5.13.5** Training records shall be maintained.
- **5.13.6** The training and education curriculum shall comply with all applicable regulatory requirements.

#### 5.14 Exercises, Evaluations, and Corrective Actions.

- **5.14.1** The entity shall evaluate program plans, procedures, and capabilities through periodic reviews, testing, and exercises.
- **5.14.2** Additional reviews shall be based on post-incident analyses and reports, lessons learned, and performance evaluations.
- **5.14.3**\* Exercises shall be designed to test individual essential elements, interrelated elements, or the entire plan(s).
- **5.14.4\*** Procedures shall be established to take corrective action on any deficiency identified.

#### 5.15 Crisis Communication and Public Information.

- **5.15.1\*** The entity shall develop procedures to disseminate and respond to requests for pre-incident, incident, and post-incident information, as well as to provide information to internal and external audiences, including the media, and deal with their inquiries.
- **5.15.2\*** The entity shall establish and maintain an emergency public information capability that includes the following:
- (1) A central contact facility for the media
- (2) A system for gathering, monitoring, and disseminating emergency information
- (3) Pre-scripted information bulletins
- (4) A method to coordinate and clear information for release
- The capability of communicating with special needs populations
- (6) Protective action guidelines/recommendations (e.g., shelter-in-place or evacuation)
- **5.15.3** Where the public is potentially impacted by a hazard, a public awareness program shall be implemented.
- **5.15.4** The entity shall develop procedures to advise the public, through authorized agencies, of threats to people, property, and the environment.

## 5.16\* Finance and Administration.

**5.16.1\*** The entity shall develop financial and administrative procedures to support the program before, during, and after an emergency or a disaster.

- **5.16.2** Procedures shall be created and maintained for expediting fiscal decisions in accordance with established authorization levels and fiscal policy.
- **5.16.3** The procedures shall include the following:
- Establishment and definition of responsibilities for the program finance authority, including its reporting relationships to the program coordinator
- (2) Program procurement procedures
- (3) Payroll
- (4) Accounting systems to track and document costs
- (5)\*Management of funding from external sources

## Annex A Explanatory Material

Annex A is not a part of the requirements of this NFPA document but is included for informational purposes only. This annex contains explanatory material, numbered to correspond with the applicable text paragraphs.

- A.1.1 The emergency management and business continuity community comprises many different entities including the government at distinct levels (e.g., federal, state/provincial, territorial, tribal, indigenous, and local levels); business and industry; nongovernmental organizations; and individual citizens. Each of these entities has its own focus, unique missions and responsibilities, varied resources and capabilities, and operating principles and procedures. Each entity can have its own definition of disaster. Examples of disaster definitions used by entities include the following:
- (1) An occurrence or imminent threat to the entity of widespread or severe damage, injury, or loss of life or property resulting from natural or human causes
- (2) An emergency that is beyond the normal response resources of the entity and would require the response of outside resources and assistance for recovery
- (3) A suddenly occurring or unstoppable developing event that does the following:
  - (a) Claims loss of life, suffering, loss of valuables, or damage to the environment
  - (b) Overwhelms local resources or efforts
  - (c) Has a long-term impact on social or natural life that is always negative in the beginning
- **A.1.3** An example of a specific industry application of the framework in the public sector is the Emergency Management Accreditation Program (EMAP). EMAP uses NFPA 1600 as the basis for guidelines that are used to accredit state, local, and tribal emergency management programs. Accreditation involves review of documentation, observations, and interviews with program officials (e.g., officials with the emergency management agency and from partner agencies, such as transportation, health, utilities, environmental, and law enforcement).

NFPA 1600's comprehensive framework has also been applied to standards for hospitals. The 2005 revision to NFPA 99, Standard for Health Care Facilities, Chapter 12, Health Care Emergency Management, incorporated the "program" emphasis of NFPA 1600, serving to differentiate an "emergency management program" for health care systems from the current emphasis by other hospital standards on an "emergency management plan."

**A.3.2.1 Approved.** The National Fire Protection Association does not approve, inspect, or certify any installations, procedure.

dures, equipment, or materials; nor does it approve or evaluate testing laboratories. In determining the acceptability of installations, procedures, equipment, or materials, the authority having jurisdiction may base acceptance on compliance with NFPA or other appropriate standards. In the absence of such standards, said authority may require evidence of proper installation, procedure, or use. The authority having jurisdiction may also refer to the listings or labeling practices of an organization that is concerned with product evaluations and is thus in a position to determine compliance with appropriate standards for the current production of listed items.

A.3.2.2 Authority Having Jurisdiction (AHJ). The phrase "authority having jurisdiction," or its acronym AHJ, is used in NFPA documents in a broad manner, since jurisdictions and approval agencies vary, as do their responsibilities. Where public safety is primary, the authority having jurisdiction may be a federal, state, local, or other regional department or individual such as a fire chief; fire marshal; chief of a fire prevention bureau, labor department, or health department; building official; electrical inspector; or others having statutory authority. For insurance purposes, an insurance inspection department, rating bureau, or other insurance company representative may be the authority having jurisdiction. In many circumstances, the property owner or his or her designated agent assumes the role of the authority having jurisdiction; at government installations, the commanding officer or departmental official may be the authority having jurisdiction.

- **A.3.3.1 Business Continuity.** In the public sector, this phrase is also known as *continuity of operations* or *continuity of government.* Mission, vision, and strategic goals and objectives are used to focus the program.
- **A.3.3.6 Impact Analysis [Business Impact Analysis (BIA)].** This analysis measures the effect of resource loss and escalating losses over time in order to provide the entity with reliable data upon which to base decisions concerning hazard mitigation, recovery strategies, and continuity planning.
- **A.3.3.8 Incident Management System (IMS).** The incident command system (ICS) is a component of an overall incident management system.
- **A.3.3.10 Mutual Aid/Assistance Agreement.** The term *mutual aid/assistance agreement* as used herein includes cooperative agreements, partnership agreements, memoranda of understanding, intergovernmental compacts, or other terms commonly used for the sharing of resources.
- **A.3.3.12 Prevention.** Activities, tasks, programs, and systems intended to avoid or intervene in order to stop an incident from occurring. Prevention can apply both to human-caused incidents (such as terrorism, vandalism, sabotage, or human error) as well as to naturally occurring incidents. Prevention of human-caused incidents can include applying intelligence and other information to a range of activities that includes such countermeasures as deterrence operations, heightened inspections, improved surveillance and security operations, investigations to determine the nature and source of the threat, and law enforcement operations directed at deterrence, preemption, interdiction, or disruption.
- **A.3.3.13 Recovery.** Recovery programs are designed to assist victims and their families, restore institutions to suitable economic growth and confidence, rebuild destroyed property, and reconstitute government operations and services. Recovery actions often extend long after the incident itself.



ANNEX A 1600–9

Recovery programs include mitigation components designed to avoid damage from future incidents.

**A.3.3.15 Response.** The response of an entity to a disaster or other significant event that might impact the entity. Activities, tasks, programs, and systems can include the preservation of life, meeting basic human needs, preserving business operations, and protecting property and the environment. An incident response can include evacuating a facility, initiating a disaster recovery plan, performing damage assessment, and any other measures necessary to bring an entity to a more stable status.

**A.4.1(3)** The common criteria of the standard can be organized in a chronological order to form a program development schedule to include the following steps:

- (1) Establish leadership and direction for the program. (Form an Advisory Committee, designate a program coordinator, conduct a program assessment, define the program policy, and develop and approve a strategic administrative plan.)
- (2) Identify hazards and take actions to eliminate or reduce their impacts. (Conduct a hazards identification, risk assessment and impact analysis; develop prevention, mitigation, and continuity plan(s); and establish a public education program.)
- (3) Prepare the entity for response and recovery operations. (Develop the emergency operations/response and recovery plan(s); establish operational procedures; define facilities; establish communications and warning systems; engage in resource management and logistics and mutual aid/assistance activities; conduct ongoing education, training, and exercise activities; and maintain a corrective action program.)
- **A.4.2** The program coordinator should ensure the preparation, implementation, evaluation, and revision of the program. It is not the intent of this standard to restrict the users to program coordinator titles. It is recognized that different entities use various forms and names for their program coordinator that performs the functions identified in the standard. An example of a title for the public sector is emergency manager, and an example of a title for the private sector is business continuity manager. A written position description should be provided.
- **A.4.3** Members of the advisory committee should participate with the clear understanding that the objective is to minimize turnover of committee members to maintain an effective committee. Within the private sector, representatives can include, but are not limited to, information technology and communications, plant operations, transportation, maintenance, engineering, personnel, public relations, environment, legal, finance, risk management, health and safety, security, stakeholders, and fire fighting/rescue. Within the public sector, representatives can include police, fire, emergency medical services, engineering, public works, environmental protection, public health, finance, education, emergency management, legal, transportation authorities, homeland security, stakeholders, and the military (e.g., the National Guard). When determining the representation on the committee, consideration should be given to public sector representation on a private sector committee and vice versa. This will help to establish a coordinated and cooperative approach to the program.

**A.4.3.1** Although the program coordinator has the final authority in deciding the course of the program through its day-to-day administration, it is encouraged that major decisions be made in consultation with the advisory committee. The program coordinator and the advisory committee should be in agreement concerning priorities and resource allocation in the day-to-day operations of the program.

Decisions made and actions taken in the day-to-day administration of the program crucially affect the ultimate implementation of the program in times of emergency. Therefore, because the advisory committee is composed of those representing key functional areas, both within and external to the entity, it is encouraged that the program coordinator and the advisory committee consult together on important administrative matters to ensure the goals of the program are indeed met.

All state and local emergency management entities report to a higher authority. States report to governors, adjutant generals, chief law enforcement officers, county commissions, or city commissions. These authorities set the agendas for emergency management activities. Having an advisory committee might or might not be encouraged. Mandating that an entity must have an advisory committee will, in many cases, violate the authorities under which the emergency management entity is established. Those organizations that can have, or want to have, an advisory committee that will provide advice and guidance should be encouraged to do so.

#### **A.5.1** See Table A.5.1.

- **A.5.1.2** Key program elements cross boundaries during prevention, mitigation, preparedness, response, and recovery. Each element should be considered interrelated and can be considered concurrently. The use of the terms *phases*, *elements*, or *components* varies from program to program.
- **A.5.2.1** Industry codes of practices and guidelines should also be considered.
- **A.5.2.2** If, through exercise or incident analysis, program evaluation, and corrective action, limitations in the necessary laws and applicable authorities are discovered, a formal process should exist to amend them.

In the case of public entities, consideration should be made for periodic review of existing legislation, regulations, codes, and authorities to determine whether adequate flexibility exists to accommodate evolving programmatic policy or if new legislation should be developed and introduced through a legislative initiative. This is particularly relevant as program requirements change to comply with changing roles and relationships in and among varying levels of government.

For example, the entity might have the appropriate authority to conduct emergency operations but lack authority to take action prior to an event to mitigate the occurrence or the recurrence of an emergency. In other cases, additional authorities could be needed to generate the necessary revenue to sustain a viable program, and additional authority could be required to create a standing contingency fund to adequately support a disaster operation. In the private sector, the governing factors can be industry codes of practice or regulations rather than statutory restrictions. A process should be established for periodic review of industry practices for compliance with the strategy, goals, and objectives of the entity. Evolving best practices should be incorporated into industry codes as applicable.

Table A.5.1 NFPA 1600, BCI & DRII Professional Practices, and DHS/FEMA's FPC 65 COOP Elements Crosswalk

NFPA 1600 Chapter/Section	BCI & DRII Professional Practices (Subject Area)	DHS/FEMA FPC 65 COOP Elements
4, Program Management	1, Project Initiation and Management	_
5.2, Laws and Authorities	9, Public Relations and Crisis Coordination 10, Coordination with Public Authorities	_
5.3, Risk Assessment	2, Risk Evaluation and Control	_
5.4, Incident Prevention	2, Risk Evaluation and Control	_
5.5, Mitigation	2, Risk Evaluation and Control	_
5.6, Resource Management and Logistics 5.7, Mutual Aid/Assistance	3, Business Impact Analysis 4, Developing Business Continuity Strategies	Human Capital —
5.8, Planning	<ol> <li>Project Initiation and Management</li> <li>Risk Evaluation and Control</li> <li>Business Impact Analysis</li> <li>Developing Business Continuity Strategies</li> <li>Emergency Response and Operations</li> <li>Developing and Implementing Business Continuity Plans</li> </ol>	Plans and Procedures Essential Functions Orders of Succession Delegations of Authority Vital Records and Databases Human Capital
5.9, Incident Management	5, Emergency Response and Operations 6, Developing and Implementing Business Continuity Plans	Devolution of Control and Direction
5.10, Communications and Warning	5, Emergency Response and Operations 6, Developing and Implementing Business Continuity Plans	Interoperable Communications
5.11, Operational Procedures	5, Emergency Response and Operations 6, Developing and Implementing Business Continuity Plans	Plans and Procedures Orders of Succession Delegations of Authority Vital Records and Databases Reconstitution
5.12, Facilities	4, Developing Business Continuity Strategies 6, Developing and Implementing Business Continuity Plans	Alternate Operating Facilities
5.13, Training 5.14, Exercises, Evaluations, and Corrective Actions	7, Awareness and Training 7, Awareness and Training 8, Maintaining and Exercising Business Continuity Plans	Tests, Training and Exercises Tests, Training and Exercises
5.15, Crisis Communication and Public Information	9, Public Relations and Crisis Coordination	_
5.16, Finance and Administration	1, Project Initiation and Management	_

BCI: Business Continuity Institute. DRII: Disaster Recovery Institute International.

DHS: Department of Homeland Security. FEMA: Federal Emergency Management Agency.

**A.5.3** A comprehensive risk assessment identifies the range of possible hazards, threats, or perils that have or might impact the entity, surrounding area, or critical infrastructure supporting the entity. The potential impact of each hazard, threat, or peril is determined by the severity of each and the vulnerability of people, property, operations, the environment, and the entity to each threat, hazard, or peril. The risk assessment should categorize threats, hazards, or perils by both their relative frequency and severity, keeping in mind that there might be many possible combinations of frequency and severity for each. The entity should attempt to mitigate, prepare for, plan to respond to, and recover from those threats, hazards, or perils that are able to

significantly impact people, property, operations, the environment, or the entity itself.

- **A.5.3.1** A number of methodologies and techniques for risk assessment exist that range from simple to complex. These techniques and associated amplifying information include, but are not limited to, the following:
- (1) "What-if": The purpose of the what-if analysis is to identify specific hazards or hazardous situations that could result in undesirable consequences. This technique has limited structure but relies on knowledgeable individuals who are familiar with the areas/operations/processes. The value of the



ANNEX A 1600-11

- end result is dependent on the team and the exhaustive nature of the questions they ask regarding the hazards.
- (2) Checklist: A specific list of items is used to identify hazards and hazardous situations by comparing the current or projected situations with accepted standards. The value of the end result is dependent on the quality of the checklist and the experience/credentials of the checklist user.
- (3) What-if/checklist: This technique is a combination of the what-if and checklist techniques, and uses the strength of both techniques to complete the risk assessment. The what-if questions are developed and the checklist(s) used to encourage the creativity of the what-if process, as well as fill in any gaps in the process of developing questions. The value of the end result is dependent on the team and exhaustive nature of the questions they ask regarding the hazards.
- (4) Hazard and operability study (HAZOP): This technique requires an interdisciplinary team that is very knowledgeable of the areas/operations/processes to be assessed. This approach is thorough, time-consuming, and costly. The value of the end result depends on the qualifications/experience of the team, the quality of the reference material available, the ability of the team to function as a team, and strong, positive leadership.
- (5) Failure mode and effects analysis (FMEA): Each element in a system is examined individually and collectively to determine the effect when one or more elements fail. This is a bottom-up approach; that is, the elements are examined and the effect of failure on the overall system is predicted. A small interdisciplinary team is required. This technique is best suited for assessing potential equipment failures. The value of the end result is dependent on the credentials of the team and scope of the system to be examined.
- (6) Fault-tree analysis (FTA): This is a top-down approach where an undesirable event is identified and the range of potential causes that could lead to the undesirable event is identified. The value of the end result is dependent on the competence in using the FTA process, on the credentials of the team, and on the depth of the team's analysis.
- **A.5.3.2** The hazard identification should include the following types of potential hazards. This list is not all-inclusive but reflects the general categories that should be assessed in the hazard identification.
- (1) Naturally occurring hazards that can occur without the influence of people and have potential direct or indirect impact on the entity (people, property, the environment), such as the following:
  - (a) Geological hazards (does not include asteroids, comets, meteors)
    - i. Earthquake
    - ii. Tsunami
    - iii. Volcano
    - iv. Landslide, mudslide, subsidence
    - v. Glacier, iceberg
  - (b) Meteorological hazards
    - i. Flood, flash flood, seiche, tidal surge
    - ii. Drought
    - iii. Fire (forest, range, urban, wildland, urban interface)
    - iv. Snow, ice, hail, sleet, avalanche
    - v. Windstorm, tropical cyclone, hurricane, tornado, water spout, dust/sand storm
    - vi. Extreme temperatures (heat, cold)
    - vii. Lightning strikes

- viii. Famine
- ix. Geomagnetic storm
- (c) Biological hazards
  - i. Emerging diseases that impact humans or animals [plague, smallpox, anthrax, West Nile virus, foot and mouth disease, SARS, pandemic disease, BSE (Mad Cow Disease)]
  - ii. Animal or insect infestation or damage
- (2) Human-caused events such as the following:
  - (a) Accidental
    - i. Hazardous material (explosive, flammable liquid, flammable gas, flammable solid, oxidizer, poison, radiological, corrosive) spill or release
    - ii. Explosion/fire
    - iii. Transportation accident
    - iv. Building/structure collapse
    - v. Energy/power/utility failure
    - vi. Fuel/resource shortage
    - vii. Air/water pollution, contamination
    - viii. Water control structure/dam/levee failure
    - ix. Financial issues, economic depression, inflation, financial system collapse
    - Communications systems interruptions
    - xi. Misinformation
  - (b) Intentional
    - i. Terrorism (explosive, chemical, biological, radiological, nuclear, cyber)
    - ii. Sabotage
    - iii. Civil disturbance, public unrest, mass hysteria, riot
    - iv. Enemy attack, war
    - v. Insurrection
    - vi. Strike or labor dispute
    - vii. Disinformation
    - viii. Criminal activity (vandalism, arson, theft, fraud, embezzlement, data theft)
    - ix. Electromagnetic pulse
    - x. Physical or information security breach
    - xi. Workplace violence
    - xii. Product defect or contamination
    - xiii. Harassment
    - xiv. Discrimination
- (3) Technological-caused events that can be unrelated to natural or human-caused events, such as the following:
  - (a) Central computer, mainframe, software, or application (internal/external)
  - (b) Ancillary support equipment
  - (c) Telecommunications
  - (d) Energy/power/utility

A.5.3.3 The impact analysis is a broad description and quantification of a potential event that can impact an entity. This analysis should give a clear idea of what hazards are most likely to occur; what entity facilities, functions, or services are affected based on their vulnerability to that hazard; what actions will most effectively protect them; and the potential impact on the entity in quantifiable terms.

Within the impact analysis, the entity should consider the impact external to its area of influence that can affect the entity's ability to cope with an emergency. One example is the cascade effects of a hurricane. Direct impacts can include wind and flood damage. Secondary impacts can include communications, power, and transportation disruptions, both inside and outside

the direct impact area, and the potential impact on the entity in quantifiable terms.

**A.5.3.3(3)** In order to maintain continuity of operations, the entity should identify essential or critical functions and processes, their recovery priorities, and internal and external interdependencies, so that recovery time objectives can be set.

**A.5.3.3(7)** An economic and financial impact analysis allows the quantification of the impacts without considering the cause of the emergency. This analysis is closely related to the process of identifying essential or critical functions or processes and helps decide where to place the emphasis in planning efforts.

The analysis examines potential economic or financial loss resulting from disruption of the functions, processes, or services over time

The purpose of an economic and financial impact analysis is to arrive at a general loss expectancy that demonstrates what is at risk and to guide measures to mitigate the effects of an emergency.

**A.5.3.3(10)** It is important to consider the regional, national, or international implications of a hazard's impact on a community, such as in New York City. A hazard that affects the New York Stock Exchange will have enormous national and international impacts that should be considered.

#### **A.5.4.1** The prevention strategy should include the following:

- (1) Deterrence operations
- Provision of protective systems or equipment for physical or cyber risks
- (3) Surveillance and security operations
- (4) Investigations to determine the full nature and source of the threat
- (5) Public health and agricultural surveillance and testing processes
- (6) Immunizations, isolation, or quarantine
- (7) Threat assessment documentation

Additional considerations for the prevention strategy could include the following:

- (1) Perimeter fence line and gates
- Access control system, increased camera surveillance, intruder detection systems (motion-sensing cameras, infrared detectors)
- (3) Patrols (inside and outside) of facility and increased inspections of vehicles entering the facility
- (4) Background checks for personnel

**A.5.4.2** Techniques to consider in a prevention strategy include the following:

- (1) Ongoing hazard identification
- (2) Threat assessment
- (3) Risk assessment
- (4) Impact analysis
- (5) Program assessment
- (6) Operational experience
- (7) Ongoing incident analysis
- (8) Information collection and analysis
- (9) Intelligence and information sharing

An impact analysis could include a cost-benefit analysis. The cost-benefit analysis should not be the overriding factor in establishing a prevention strategy.

**A.5.5.1** The mitigation strategy should include the following:

- (1) Use of applicable building construction standards
- (2) Hazard avoidance through appropriate land use practices
- (3) Relocation, retrofitting, or removal of structures at risk
- (4) Removal or elimination of the hazard
- (5) Reduction or limitation of the amount or size of the hazard
- (6) Segregation of the hazard from that which is to be protected
- (7) Modification of the basic characteristics of the hazard
- (8) Control of the rate of release of the hazard
- (9) Provision of protective systems or equipment for both cyber and physical risks
- (10) Establishment of hazard warning and communication procedures
- (11) Redundancy or diversity of essential personnel, critical systems, equipment, information, operations, or materials
- (12) Acceptance/retention/transfer of risk (insurance programs)
- (13) Protection of competitive/proprietary information

**A.5.5.2** The mitigation strategy should establish interim and long-term actions to reduce the risks from hazards.

**A.5.6** The five key principles of resource management that underpin effective resource management are as follows:

- Advance Planning. Entities work together in advance of an incident to develop plans for managing and employing resources in a variety of possible emergency circumstances.
- (2) Resource Identification and Ordering. Entities use standardized processes and methodologies to order, identify, mobilize, dispatch, and track the resources required to support incident management activities.
- (3) Categorizing Resources. Resources are categorized by size, capacity, capability, skill, and other characteristics.
- (4) Use of Agreements. Mutual aid/assistance agreements and pre-incident agreements among all parties providing or requesting resources are necessary to enable effective and efficient resource management during incident operations.
- (5) Effective Management of Resources. Resource managers use validated practices to perform the following key resource management tasks systematically and efficiently:
  - (a) Acquisition Procedures. Used to obtain resources to support operational requirements.
  - (b) Management Information Systems. Used to collect, update, and process data; track resources; and display their readiness status.
  - (c) Ordering, Mobilization, Dispatching, and Demobilization Protocols. Used to request resources, prioritize requests, activate and dispatch resources to incidents, and return resources to normal status.

To the extent practical and feasible, an entity should type resources according to established definitions, such as utilizing the Department of Homeland Security/FEMA's National Mutual Aid and Resource Management Initiative Resource Type Definitions.

Resources for program administration as well as emergency operations should be specifically identified. These resources include, but are not limited to, the following:

- The locations, quantities, accessibility, operability, and maintenance of equipment (heavy duty, protective, transportation, monitoring, decontamination, response, personal protective equipment)
- Supplies (medical, personal hygiene, consumable, administrative, ice)
- (3) Sources of energy (electrical, fuel)



ANNEX A 1600–13

- (4) Emergency power production (generators)
- (5) Communications systems
- (6) Food and water
- (7) Technical information
- (8) Clothing
- (9) Shelter
- (10) Specialized personnel (medical, religious, volunteer organizations, emergency management staff, utility workers, morticians, and private contractors)
- (11) Specialized volunteer groups [Red Cross, amateur radio, religious relief organizations, charitable agencies, VOAD (Volunteer Organization Active in Disaster), COAD (Community Organization Active in Disaster), CERT (Community Emergency Response Team)]
- (12) External federal, state, provincial, tribal, territorial, and local agencies

A resource should be available in a timely manner and should have the capability to do its intended function. Restriction on the use of the resource should be taken into account, and application of the resource should not incur more liability than would failure to use the resource. Finally, the cost of the resource should not outweigh the benefit.

**A.5.7** Mutual aid/assistance agreements between entities are an effective means to obtain resources and should be developed whenever possible. Mutual aid/assistance agreements should be in writing, be reviewed by legal counsel, be signed by a responsible official, define liability, and detail funding and cost arrangements. The term *mutual aid/assistance agreement* as used here includes cooperative assistance agreements, intergovernmental compacts, or other terms commonly used for the sharing of resources.

Mutual aid/assistance agreements are the means for one entity to provide resources, facilities, services, and other required support to another entity during an incident. Each entity should be party to a mutual aid/assistance agreement (such as the Emergency Management Assistance Compact) with appropriate entities from which they expect to receive or to which they expect to provide assistance during an incident. This would normally include all neighboring or nearby entities, as well as relevant private sector and nongovernmental organizations. States should participate in interstate compacts and look to establish intrastate agreements that encompass all local entities. Mutual aid/assistance agreements are also needed with private organizations, such as the International Red Cross, to facilitate the timely delivery of private assistance at the appropriate entity level during incidents. At a minimum, mutual aid/assistance agreements should include the following elements or provisions:

- (1) Definitions of key terms used in the agreement
- (2) Roles and responsibilities of individual parties
- (3) Procedures for requesting and providing assistance
- (4) Procedures, authorities, and rules for payment, reimbursement, and allocation of costs
- (5) Notification procedures
- (6) Protocols for interoperable communications
- (7) Relationships with other agreements among entities
- (8) Workers' compensation
- (9) Treatment of liability and immunity
- (10) Recognition of qualifications and certifications
- (11) Sharing agreements, as required

**A.5.8.3.1** It should be noted that most entities engage in multiple planning activities (e.g., mitigation planning, land use planning). Coordination ensures nonduplication, improves

understanding, increases support, and assures that all stake-holders have a voice.

**A.5.8.3.2** The extent of planning requirements will depend on the program's objectives, results of the hazard analysis, organizational culture and philosophy, regulations, and so on.

**A.5.8.3.3** The plan should be reviewed annually and updated as necessary. It should also be re-evaluated when any of the following occur:

- (1) Regulatory changes
- (2) New hazards are identified or existing hazards change
- (3) Resources or organizational structures change
- (4) After tests, drills, or exercises
- (5) After emergency responses
- (6) Infrastructure, economic, and geopolitical changes
- (7) Funding or budget level changes

The strategic plan identifies the long-term goals, using broad general statements of desired accomplishments. The objectives developed from these goals include measurable activities that should be accomplished within identified time frames to meet those objectives.

**A.5.8.3.4** The management functions of the incident command system (command, operations, planning, logistics, and finance/administration) can be used to structure the emergency operations/response plan. This approach can improve understanding and effective use of both.

**A.5.8.3.7** A specific plan for all of the items might be impossible in advance of a disaster. A strategy for recovery covering all of the items in the standard might be more appropriate, based upon the entity.

In developing plans, short-term goals and objectives should be established and should include, but not be limited to, the following:

- (1) Vital personnel, systems, operations, records, and equipment identified in Section 5.6
- (2) Priorities for restoration and mitigation
- (3) Acceptable downtime before restoration to a minimum level
- (4) Minimum resources needed to accomplish the restoration

The recovery strategy should include provisions for the return of the following services, as applicable:

- Critical infrastructure (water, gas, electricity, and waste management)
- (2) Telecommunications and cyber systems
- (3) Distribution systems or networks for essential goods (food, clothing, personal supplies, and services)
- (4) Transportation systems, networks and infrastructure
- (5) Built environment (including residential, commercial, and industrial uses)
- (6) Psychosocial services
- (7) Health services
- (8) Continuity of governance systems

In developing plans, consideration should be given to longterm goals and objectives, which should include, but not be limited to, the following:

- (1) The entity's strategic plan
- (2) Management and coordination of activities
- (3) Funding and fiscal management
- (4) Management of volunteer, contractual, and entity resources
- (5) Opportunities for disaster mitigation

**A.5.8.3.8** Plans for business continuity, continuity of government, and continuity of operations are generally similar in intent and less similar in content. Continuity plans have various names in both the public and private sectors. These include business continuity plans, business resumption plans, disaster recovery plans, and so on.

In addition, within the public sector, continuity of operations plans might use business impact analysis to identify critical governmental functions.

Recovery planning for public sector normally includes bringing infrastructure and individuals back to pre-incident conditions, including implementation of mitigation measures, to facilitate short- and long-term recovery.

Business continuity planning in the private sector incorporates both the initial activities to respond to an emergency situation and the restoration of the business and its functions to pre-incident levels. As a result, there are both differences and similarities between public sector recovery plans and private sector business continuity plans.

Specific areas to consider in continuity plans include the following:

- (1) Succession: To ensure that the leadership will continue to function effectively under emergency conditions. When practical, there is a designation of at least three successors for each position. Provisions have been made to deal with vacancies and other contingencies such as absence or inability to act.
- (2) Pre-delegation of emergency authorities: To ensure that sufficient enabling measures are in effect to continue operations under emergency conditions. Emergency authorities have been enacted that specify the essential duties to be performed by the leadership during the emergency period and that enable the leadership to act if other associated entities are disrupted, and to re-delegate with appropriate limitations.
- (3) Emergency action steps: Actions that facilitate the ability of personnel to respond quickly and efficiently to disasters/emergencies. Checklists, action lists, and/or standard operating procedures (SOPs) have been written that identify emergency assignments, responsibilities, and emergency duty locations. Procedures should also exist for alerting, notifying, locating, and recalling key members of the entity. The SOPs and notification procedures should be integrated.
- (4) Primary and alternate emergency operations centers: A facility or capability from which direction and control is exercised in an emergency. This type of center or capability is designated to ensure that the capacity exists for the leadership to direct and control operations from a centralized facility or capability in the event of an emergency. (See A.5.12.1.)
- (5) Alternate operating or backup facilities: Provisions also exist for alternate site(s) for departments or agencies having emergency functions or continuing operations.
- (6) Vital records: The measures that are taken by the entity to protect the entity's vital records for example, financial, data, personnel records, and engineering drawings that the entity should have to continue functioning during emergency conditions and to protect the rights and interests of the entity. Procedures have been put in place to ensure the selection, preservation, and availability of records essential to the effective functioning of the entity under emergency conditions and to maintain the continuity of operations. Protection of records should comply

- with applicable laws [Health Insurance Portability and Accountability Act (HIPAA) or other privacy laws].
- (7) Protection of resources, facilities, and personnel: The measures that are taken to deploy resources and personnel in a manner that will provide redundancy to ensure the entity can continue to function during emergency conditions. Plans and procedures are in place to ensure the protection of personnel, facilities, and resources so the entity can operate effectively. The entity should have the ability to allocate needed resources and restore functions during and after disasters/emergencies. Plans should address deployment procedures to relocate/replicate resources or facilities, increase protection of facilities, and inform and train personnel in protective measures. Preparedness should be increased based on the threat level. (See A.5.3.)

**A.5.9.1** An example of an approved incident management system (IMS) would be NIMS, as used in the United States, the British equivalent, or the Continental European system, or their equivalent. (See Annex E.)

For specific information on communications and warning and emergency public information, see Sections 5.10 and 5.15.

**A.5.9.2** In emergencies, an incident management system would be used to systematically identify management functions assigned to various personnel. The system used varies among entities and among jurisdictions within entities. In minor emergencies, incident management functions might be handled by one person, the incident commander or equivalent designation.

An incident management system is designed to enable effective and efficient domestic incident management by integrating a combination of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure. It is normally structured to facilitate activities in five major functional areas: command, operations, planning, logistics, and finance and administration. See Annex E for detailed information on incident management systems (IMSs).

- **A.5.9.5** See Annex E for information on incident action plans.
- **A.5.10.3** Means of maintaining capability includes redundant or multiple systems.
- **A.5.11** Procedures should include, but not be limited to, the following:
- (1) Control of access to the area affected by the emergency
- (2) Identification of personnel engaged in activities at the incident
- (3) Accounting for personnel engaged in incident activities
- (4) Accounting for persons affected, displaced, or injured by the emergency
- (5) Mobilization and demobilization of resources
- (6) Provision of temporary, short-term, or long-term housing, feeding, and care of populations displaced by an emergency
- (7) Recovery, identification, and safeguarding of human remains (The National Foundation for Mortuary Care has recommended practices for mass casualty events.)
- (8) Provision for the mental health and physical well-being of individuals affected by the emergency
- (9) Provision for managing critical incident stress for responders
- **A.5.11.2** Property conservation, as used in 5.11.2, means minimizing property damage.

ANNEX A **1600-**15

A.5.11.4 A needs assessment should include addressing the safety, health, and welfare of people, and the protection of property and the environment under the jurisdiction of the entity.

A.5.12.1 Emergency operations centers (EOCs) represent the physical location at which the coordination of information and resources to support incident management activities normally takes place. The Incident Command Post (ICP) located at or in the immediate vicinity of an incident site, although primarily focused on the tactical on-scene response, can perform an EOC-like function in smaller-scale incidents or during the initial phase of the response to larger, more complex events. Standing EOCs, or those activated to support larger, more complex events, are typically established in a more central or permanently established facility at a higher level of organization within a jurisdiction.

EOCs can be organized by major functional discipline (fire, law enforcement, medical services, and so on), by jurisdiction (city, county, region, and so on), or, more likely, by some combination thereof.

Department Operations Centers (DOCs) normally focus on internal agency incident management and response and are linked to and, in most cases, are physically represented in a higher level EOC. ICPs should also be linked to DOCs and EOCs to ensure effective and efficient incident management.

For complex incidents, EOCs can be staffed by personnel representing multiple jurisdictions and functional disciplines and a wide variety of resources. For example, a local EOC established in response to a bioterrorism incident would likely include a mix of law enforcement, emergency management, public health, and medical personnel (representatives of health care facilities, pre-hospitalization emergency medical services, patient transportation systems, pharmaceutical repositories, laboratories, and so on).

EOCs can be permanent organizations and facilities or can be established to meet temporary, short-term needs. The physical size, staffing, and equipping of an EOC will depend on the size of the jurisdiction, resources available, and anticipated incident management workload. EOCs can be organized and staffed in a variety of ways. Regardless of the specific organizational structure used, EOCs should include the following core functions: coordination; communications; resource dispatch and tracking; and information collection, analysis, and dissemination.

EOCs can also support multiagency coordination and joint information activities as discussed subsequently. On activation of a local EOC, communications and coordination have to be established between the Incident Command (IC) or Unified Command (UC) and the EOC when they are not collocated. ICS field organizations have to also establish communications with the activated local EOC, either directly or through their parent organizations. Additionally, EOCs at all levels of government and across functional agencies have to be capable of communicating appropriately with other EOCs during incidents, including those maintained by private organizations. Communications between EOCs has to be reliable and contain built-in redundancies. The efficient functioning of the EOCs most frequently depends on the existence of mutual aid/assistance agreements and joint communications protocols among participating agencies.

Facilities should be capable of accommodating any combination of essential representatives who are identified in the entity's plan. Facilities should have adequate workspace, com-

munications, and back-up utilities and should meet other basic human needs for each representative. Essential functions include gathering essential information capable of providing centralized direction and control, and warning for response and recovery actions. Facilities should be located so that they are not impacted by the same event. (See A.5.8.3.8.)

With the increased usage of virtual or mobile EOC capabilities, entities using this mode of operation should still meet the criteria in this section.

An emergency operations center would include an emergency coordination center or its equivalent.

**A.5.14.3** Exercises should include, but not be limited to, tabletops, simulations, and full operational exercises.

A.5.14.4 A Corrective Action Program is a process that follows an actual occurrence or exercise to identify program shortfalls and necessary corrective actions to address those shortfalls. The Corrective Action Program provides the techniques to manage the capabilities improvement process.

The Corrective Action Program begins following the "afteraction" discussion/critique of the incident or exercise. The Corrective Action Program might also begin during the incident if a lengthy or extended event is being managed. During the evaluation, process deficiencies are noted that require improvement. Some corrective actions might not be taken immediately due to constraints, such as budgets, staffing, or contracts, and might be deferred as part of the long-range project. However, temporary actions should be taken to implement the desired option.

Typically, those process deficiencies fall within one or more of the 13 program elements found in the standard. There are three categories of corrective actions, listed as follows:

- (1) Plan or standard operating procedures (SOP) revisions
- (2) Training
- (3) Equipment additions or modifications and facilities

A task group is assigned to each identified area of noted deficiency to develop the necessary actions for improvement and a time schedule for development of the necessary corrective action is established.

The task group should do the following:

- (1) Develop options for appropriate corrective action
- (2) Make recommendations for a preferred option
- (3) Develop an implementation plan, which could include training
- (4) Ensure that during the next exercise the corrective action be evaluated to determine if the corrective actions have been successful

There are eight components in the Corrective Action Program, as follows:

- (1) Develop a problem statement that states the problem and identifies its impact
- (2) Review the past history of corrective action issues from previous evaluations and identify possible solutions to the problem
- (3) Select a corrective action strategy and prioritize the actions to be taken, as well as an associated schedule for completion
- (4) Provide authority and resources to the individual assigned to implementation so that the designated change can be accomplished
- (5) Identify the resources required to implement the strategy

- (6) Check on the progress of completing the corrective action
- (7) Forward problems that need to be resolved by higher authorities to the level of authority that can resolve the problem
- (8) Test the solution through exercising once the problem is solved

As a special note: The appropriate corrective actions might not be taken due to budgetary or other constraints or will be deferred as a part of the long-range capital project. However, temporary actions might be adopted during the time it takes to fund and implement the desired option.

**A.5.15.1** Information can be accessed, both internally and externally, in many ways. There can be formal educational programs established to reach the populations that could be impacted by an emergency. In turn, these same populations might request information of the entity with regard to the hazards and the program in place. In both cases, the entity should establish procedures to disseminate this information to (or educate and inform) its own members and, if applicable, the public. Also, it should establish procedures to respond to internal and external requests for such information, which can be done through pamphlets, speaker's bureaus, the Internet, community meetings, newsletters, and so forth. A schedule and identification of accountable and responsible individuals for resolution of stakeholder communications should be identified and implemented.

Information should be tailored to the appropriate audience or population. For example, internal members will need to know more about their role in the program. They will need to know how to respond, where to respond, and how to prevent or minimize the impact of the hazard. The public, on the other hand, will need to know how they will be notified of an emergency, the potential effect of the hazard, and how to protect themselves from the impact of the hazard.

**A.5.15.2** An emergency public information capability should incorporate a joint information system that includes the following:

- (1) Interagency coordination and integration
- (2) Developing and delivering coordinated messages
- (3) Support for decision makers
- (4) Flexibility, modularity, and adaptability

The system provides an organized, integrated, and coordinated mechanism to ensure the delivery of understandable, timely, accurate, and consistent information to the public in a crisis. It includes the plans, protocols, and structures used to provide information to the public during incident operations, and encompasses all public information operations related to the incident, including federal, state, local, tribal, and private organization public information officers (PIOs), staff, and a joint information center established to support an incident.

Ajoint information center is a physical location where public affairs professionals from organizations involved in incident management activities can colocate to perform critical emergency information, crisis communications, and public affairs functions. It is important for the center to have the most current and accurate information regarding incident management activities at all times. The center provides the organizational structure for coordinating and disseminating official information. Centers should be established at each level of incident management, as required.

It is important to note the following:

- The center should include representatives of each jurisdiction, agency, private sector, and nongovernmental organization involved in incident management activities.
- (2) A single center location is preferable, but the system should be flexible and adaptable enough to accommodate multiple center locations when the circumstances of an incident require. Multiple centers might be needed for a complex incident spanning a wide geographic area or multiple jurisdictions.
- (3) Each center should have procedures and protocols to communicate and coordinate effectively with other centers, as well as with other appropriate components of the incident management system.

**A.5.16** There should be a responsive financial management and administrative framework that complies with the entity's program requirements and is uniquely linked to emergency operations. The framework should provide for maximum flexibility to expeditiously request, receive, manage, and apply funds in a non-emergency environment and in emergency situations to ensure the timely delivery of assistance. The administrative process should be documented through written procedures. The program should also be capable of capturing financial data for future cost recovery, as well as identifying and accessing alternative funding sources and managing budgeted and specially appropriated funds.

**A.5.16.1** In addition to having sound financial and administration procedures for daily operations, it is equally important to have procedures in place that will allow an entity to expedite financial decision making and ensure that proper accounting occurs. To develop proper financial and administration procedures, the following steps should be taken:

- (1) The finance department should be included as a member of the Advisory Committee. (See Section 4.3.)
- (2) The finance department should be actively involved with identifying, prioritizing, and purchasing internal and external resources. (See Section 5.6.)
- (3) The entity's financial opportunities or limitations should be identified within the strategic plan that defines the vision, mission, goals, and objectives of the program. (See 5.8.3.3.)

**A.5.16.3(5)** Many emergency management programs in both the public and private sectors are supported in part by grants from government entities or private sources.

## Annex B Disaster/Emergency Management and Business Continuity Related Organizations

This annex is not a part of the requirements of this NFPA document but is included for informational purposes only.

**B.1** The following lists of U.S. federal and international agencies, organizations, and academic institutions have been identified for informational purposes only and are not intended to be all-inclusive. Inclusion on the list does not constitute an endorsement by NFPA or the Technical Committee on Emergency Management and Business Continuity.

**B.2 Government Emergency Management and Related Agencies.** 

ANNEX B 1600–17

#### B.2.1 Australia/New Zealand.

## **Australian Capital Territory Emergency Services Authority**

123-125 Carruthers Street

Curtin, ACT 2605

Australia

02-6207-8444

02-6207-8447 (fax)

www.esa.actgov.au

## **Emergency Management Australia (Federal)**

Mount Macedon Road

Mount Macedon, Victoria 3441

Australia

03-5421-5100

03-5421-5272 (fax)

www.ema.gov.au

## Department of Justice, Victoria, Australia

Victoria State Emergency Service - State Headquarters

168 Stuart Street

Southbank, Victoria 3006

Australia

03-9684-6666

www.ses.vic.gov.au

## Office of Emergency Services (New South Wales)

Level 12, 52 Phillip Street

Sydney, NSW, 2000

Australia

02-8247-5900

02-9253-9168 (fax)

www.emergency.nsw.gov.au

#### **Northern Territory Emergency Service**

PO Box 2630

Alice Springs, NT 0871

Australia

08-8951-6662

08-8953-2544 (fax)

www.nt.gov.au

## Queensland Department of Emergency Services

**Emergency Services Complex** 

Cnr Park Road and Kedron Park Road

Kedron

Brisbane 4031

Queensland

Australia

07-3247-8821

#### **South Australia Security and Emergency Management**

**GPO** Box 2343

Adelaide 5000

Australia

www.semo.sa.gov.au

#### State Emergency Service - Tasmania

Level 1, 47 Liverpool Street Hobart, Tasmania 7000

Australia

03-6230-2700

03-6234-9767

www.ses.tas.gov.au

## Ministry of Civil Defence and Emergency Management

33 Bowen Street

PO Box 5010

Wellington, New Zealand

04-473-7363

04-473-7369 (fax)

www.civildefence.govt.nz

## B.2.2 Canada.

#### **B.2.2.1** Federal Government.

## Canadian Centre for Emergency Preparedness (CCEP)

1005 Skyview Drive

Suite 323

Burlington, ON L7P 5B1

Canada

(905) 331-2552

(905) 331-1641 (fax)

www.ccep.ca

## Canadian Centre for Occupational Health & Safety (CCOHS)

135 Hunter Street East

Hamilton, ON L8N 1M5

Canada

(800) 263-8466 or (905) 572-4400

(905) 572-4500 (fax)

www.ccohs.ca

Education and Training: www.ccohs.ca/education

#### Canadian Coast Guard (CCG)

200 Kent Street 13th Floor, Station 13228

Ottawa, ON K1A 0E6

Canada

(613) 993-0999

(613) 990-1866 (fax)

www.ccg-gcc.gc.ca

#### Canadian General Standards Board (CGSB)

Gatineau, QC K1A 1G6

Canada

(819) 956-0425 or (800) 665-2472

(819) 956-5644 (fax)

www.pwgsc.gc.ca/cgsb/home/index-e.html

#### **Canadian Network of Toxicology Centers**

## **University of Guelph**

2nd Floor, Bovey Building

Gordon Street

Guelph, ON N1G 2W1

Canada

(519) 824-4120 ext. 52950

(519) 837-3861 (fax)

www.uoguelph.ca/cntc

## **Canadian Nuclear Safety Commission**

Headquarters

280 Slater Street

P.O. Box 1046

Station B

Ottawa, ON K1P 5S9

Canada



(800) 668-5284 (in Canada)

(613) 995-5894 (outside Canada)

(613) 995-5086 (fax)

www.nuclearsafety.gc.ca

### Canadian Transportation Agency (CTA)

15 Eddy Street

Gatineau, QC K1A 0N9

Canada

(888) 222-2592

(819) 953-8353 (fax)

www.cta-otc.gc.ca

### **CANUTEC** (Transport Canada)

330 Sparks Street

Office 1401

Ottawa, ON K1A 0N5

Canada

(613) 996-6666 (emergency — call collect)

\*666 (cellular phone in Canada only)

(613) 992-4624 (information — call collect)

(613) 954-5101 (fax)

www.tc.gc.ca/canutec

#### Defense R and D, Suffield

Box 4000, Station Main

Medicine Hat, AB T1A 8K6

Canada

(403) 544-4656

(403) 544-3388 (fax)

www.dres.dnd.ca/About DRDC/index\_e.html

#### **Environment Canada (EC)**

351 St. Joseph Boulevard

Hull, QC K1A 0H3

Canada

(819) 997-2800

(800) 668-6767 (toll free)

(819) 953-2225 (fax)

www.ec.gc.ca

## **Hazardous Materials Information Review Commission**

427 Laurier Avenue West, 7th Floor

Ottawa, ON K1A 1M3

Canada

(613) 993-4331

(613) 993-4686 (fax)

www.hmirc-ccrmd.gc.ca

#### **Health Canada**

Chemical Emergency Response Unit

5th Floor, 269 Laurier West

Ottawa, ON K1A 0K9

(613) 946-5690

www.hc-sc.gc.ca

### **Human Resources Development Canada**

HRSDC — Labour Program

Place du Portage, Phase II

165 Hotel de Ville Street, 10th Floor

Gatineau, QC K1A 0J2

(819) 953-7495 or (800) 463-2493

(819) 953-8768 (fax)

www.sdc.gc.ca/en/gateways/nav/top\_nav/program/

labour.shtml

### **National Defense Headquarters**

Major-General George R. Pearkes Building

101 Colonel By Drive

Ottawa, ON K1A 0K2

Canada

(613) 995-2534

(613) 995-2610 (fax)

www.forces.gc.ca

#### **Natural Resources Canada**

**Explosives Research Laboratory** 

1431 Merivale Road

Ottawa, ON K1A 0G1

Canada

(613) 948-5200

www.nrcan-rncan.gc.ca/mms/explosif/over/over\_e.htm

#### Public Health Agency of Canada

## Center for Emergency Preparedness and Response

130 Colonnade Road, A.L. 6501 H

Ottawa, ON K1A 0K9

www.phac-aspc.gc.ca/cepr-cmiu/index.html

## Public Safety and Emergency Preparedness Canada (PSEPC)

340 Laurier Avenue, West

Ottawa, ON K1A 0P8

Canada

(613) 991-3283

www.psepc-sppcc.gc.ca

## Transport Canada (TC)

Tower C, Place de Ville

330 Sparks Street

Ottawa, ON K1A 0N5

Canada

(613) 990-2309 or (613) 954-4731

 $(613)\ 998\text{-}8620\ \mathrm{or}\ (613)\ 954\text{-}4731\ (\mathrm{fax})$ 

www.tc.gc.ca

## Transportation Safety Board of Canada (TSBC)

Place du Centre

200 Promenade du Portage, 4th Floor

Hull, QC K1A 1K8

Canada

(819) 994-3741

(819) 997-2239 (fax)

www.bst.gc.ca

## Workplace Hazardous Materials Information System (WHMIS)

Chief, National Office / National WHMIS Coordinator

Health Canada

123 Slater Street, A.L. 3504D

Ottawa, ON K1A 0K9

Canada

(613) 957-2991 or (866) 225-0709

(613) 941-5366

www.hc-sc.gc.ca/ewh-semt/occup-travail/whmis-simdut/

index\_e.html/harmonization.htm



ANNEX B 1600–19

#### **B.2.2.2** Provincial Government.

#### Alberta

### **Emergency Management Alberta**

Alberta Municipal Affairs 16th Floor, Commerce Place

10155 102 Street Edmonton, AB T5J 4L4

Canada

(780) 422-9000

310-0000 (toll free in Alberta)

(780) 422-1549 (fax) www.gov.ab.ca/ma/ds

### **British Columbia**

#### **Justice Institute of British Columbia**

715 McBride Boulevard New Westminster, BC V3L 5T4

Canada

(604) 525-5422 (604) 528-5518 (fax) www.jibc.bc.ca

## **British Columbia Provincial Emergency Program**

455 Boleskine Road Victoria, BC V8Z 1E7

Canada

(250) 952-4913

(800) 663-3456 (24 hour emergency)

#7372 (cellular phone toll free in British Columbia)

(250) 952-4888 (fax) www.pep.bc.ca Mailing Address:

P.O. Box 9201 Stn Prov. Govt

Victoria, BC V8W 9J1

Canada

### Manitoba

## **Manitoba Emergency Measures Organization**

Room 1525 405 Broadway

Winnipeg, MB R3C 3L6

Canada (204) 945-4772 (888) 267-8298 (204) 945-4620 (fax)

www.gov.mb.ca/emo/index.html

#### Newfoundland and Labrador

## Emergency Measures Organization (Newfoundland and Labrador)

Confederation Building

P.O. Box 8700

St. John's, NLA1B 4J6 (709) 729-3703 (709) 729-3857 (fax)

www.mpa.gov.nl.ca/mpa/emo.html

## **New Brunswick**

#### **New Brunswick Emergency Measures Organization**

Victoria Health Centre P. O. Box 6000, Stn A 65 Brunswick Street Fredericton, NB E3B 5H1

Canada

(506) 453-2133 (800) 567-4034 (506) 456-5513 (fax)

www.gnb.ca/cnb/emo-omu/index-e.asp

#### **Northwest Territories**

## **Emergency Measures Organization (Northwest Territories)**

Municipal and Community Affairs Government of the Northwest Territories

5201 50th Avenue, Suite 600 Yellowknife, NT X1A 3S9

(867) 873-7083

(867) 873-7554 (24 hour emergency)

(867) 873-8193 (fax)

www.maca.gov.nt.ca/about/emergency.html

#### Nova Scotia

P.O. Box 2581

## **Emergency Measures Organization (Nova Scotia)**

Halifax, NS B3J 3N5 Canada (903) 424-5620 (903) 424-5376 (fax)

www.gov.ns.ca/emo

#### Nunavut

#### **Nunavut Emergency Services**

Dept. of Community Government & Transportation

P.O. Box 800

Iqaluit, NV X0A 0H0

(867) 979-6262 (24 hour emergency)

(800) 693-1666 (24 hour emergency toll free)

(867) 979-4221 (fax)

#### Ontario

## **Emergency Management Ontario**

77 Wellesley Street West, Box 222

Toronto, ON M7A 1N3

Canada

(416) 314-3723

(866) 314-0472 (24 hour emergency line)

(416) 314-3758 (fax)

www.mpss.jus.gov.on.ca/english/pub\_security/emo/

about\_emo.html

#### Prince Edward Island

#### **Prince Edward Island Emergency Measures Organization**

National Bank Tower 134 Kent Street, Suite 600 Charlottetown, PE C1A 8R8

Canada

(902) 368-6361

(902) 892-9365 (24 hour emergency line)

(902) 368-6362 (fax) www.gov.pe.ca

## Québec

#### Organisation de la Sécurité Civile du Québec (OSCQ)

Direction des communications 2525, boul. Laurier, 5th Floor Tour du Saint-Laurent



Québec, QC G1V 2L2

Canada

(418) 644-6826 or (866) 644-6826

(418) 643-3194 (fax)

www.msp.gouv.qc.ca/secivile

#### Ministère des Transports du Québec

Direction du transport routier des marchandises

Service de la normalization technique

Section transport des matières dangereuses

700 Boulevard René-Lévesque Est, 2e étage

Québec, QC G1R 5H1

Canada

(888) 355-0511

(418) 643-1269 (fax)

www.mtq.quov.qc.ca/fr/index.asp

#### Saskatchewan

## Saskatchewan Emergency Planning

220 - 1855 Victoria Avenue

Regina, SK S4P 3V7

Canada

(306) 787-9563

(306) 787-1694 (fax)

www.cps.gov.sk.ca/safety/emergency

#### Yukon

#### **Yukon Emergency Measures Organization**

**Community Services** 

**Emergency Measures Branch** 

Combined Services Building, 2nd Floor

60 Norseman Road

Whitehorse Airport

Whitehorse, YT

Canada

Mailing Address:

Government of Yukon

Box 2703, EMO

Whitehorse, YT Y1A 2C6

Canada

(867) 667-5220

(800) 661-0408, local 5220 (toll free in Yukon)

(867) 393-6266 (fax)

www.community.gov.yk.ca

## B.2.3 Japan.

## Fire and Disaster Management Agency Ministry of Home Affairs

1-2 Kasumigaseki 2-chome, Chiyoda-ku

Tokyo 100-8926

Japan

81-3-5253-5111

www.fdma.go.jp

## **B.2.4** United Kingdom.

### **UK Resilience**

Civil Contingencies Secretariat

HM Government

10 Great George Street

London

SW1P 3AE

United Kingdom

www.ukresilience.infor(main page)

www.pfe.gov.uk(specific page for emergency management)

#### **B.2.5** United States.

## Agency for Toxic Substances and Disease Registry

Public Health Service

U.S. Department of Health and Human Services

1600 Clifton Road

Atlanta, GA 30333

(404) 498-0110 or (888) 42-ATSDR or (888) 422-8737

(404) 498-0093 (fax)

www.atsdr.cdc.gov/atsdrhome.html

## Air Force Hazardous Material Resource Information System

2325 5th Street, Building 675

Wright-Patterson AFB OH 45433-7021

www.hazmat48.wpafb.af.mil/

### Centers for Disease Control and Prevention (CDC)

1600 Clifton Road

Atlanta, GA 30333

(404) 639-3311

(404) 639-3534 or (800) 311-3435 (public inquiries)

www.cdc.gov

### CDC Public Health Emergency Response Guide for State, Local, and Tribal Public Health Directors

www.bt.cdc.gov/planning/responseguide.asp

#### CDC, Emergency Preparedness & Response

Bioterrorism Preparedness & Response Planning

Centers for Disease Control and Prevention

Mailstop C-18

1600 Clifton Road

Atlanta, GA 30333

(800) 232-4436

(888) 232-6348 (TTY)

(877) 554-4625 (CDC clinician information line)

www.bt.cdc.gov

### CDC, National Center for Infectious Diseases

Office of Health Communication

National Center for Infectious Diseases

Centers for Disease Control and Prevention

Mailstop C-14

1600 Clifton Road

Atlanta, GA 30333

www.cdc.gov/ncidod/diseases/index.htm

## Chemical and Biological Defense Information Analysis Center (CBIAC)

Building E3330, Room 150

Aberdeen Proving Ground — Edgewood Area

Gunpowder, MD 21010-0196

(410) 676-9030

(410) 676-9703 (fax)

www.cbiac.apgea.army.mil

## Department of Defense/Department of the Army, Director of Military Support

Defense Technical Information Center

Attn: Information Analysis Center Program Office (DTIC-AI)

8725 John J. Kingman Road, Suite 0944

Fort Belvoir, VA 22060-6218



ANNEX B 1600-21

(703) 767-9120 (800) 225-3842 (703) 767-9119 (fax) www.iac.dtic.mil

## **Department of Defense, Defense Technical Information Center, Index of Resources**

www.dtic.mil/dtic/d

## Department of Defense, Office of the Deputy Assistant to the Secretary for Counterproliferation and Chemical and Biological Defense Programs (DASTD CP/CBD)

www.acq.osd.mil/cp/

## Department of Education, Emergency Planning

U.S. Department of Education 400 Maryland Avenue, SW Washington, DC 20202 (202) 401-2000

(800) 872-5327 (202) 401-0689 (fax)

www.ed.gov/admins/lead/safety/emergencyplan/index.html

## Department of Energy/National Nuclear Security Administration

U.S. Department of Energy

National Nuclear Security Administration

Nevada Operations Office

P.O. Box 98518

Las Vegas, NV 89193-8518

(702) 295-3521 (702) 295-0154 (fax)

www.nnsa.doe.gov/nevada.htm

### Department of Health and Human Services (DHHS)

200 Independence Avenue, SW Washington, DC 20201

(202) 619-0257 or (877) 696-6775

www.hhs.gov

#### Department of Health and Human Services,

## Health and Medical Services Support Plan for the Federal Response to Acts of Chemical/Biological (C/B) Terrorism, 21 June 1996

Department of Health and Human Services

200 Independence Avenue, SW

Washington, DC 20201

(877) 696-6775

 $http://ndms.dhhs.gov/CT\_Program/Response\_$ 

Planning/C-BHMPlan.pdf

## Department of Health and Human Services (DHHS), Office of Public Health Emergency Preparedness (OPHEP)

U.S. Department of Health and Human Services

200 Independence Avenue, SW

Washington, DC 20201

(202) 401-5840 or (202) 619-0257 or (877) 696-6775

www.hhs.gov/ophep

## Department of Health and Human Services, Pandemic Influenza

National Vaccine Program Office

U.S. Department of Health and Human Services

200 Independence Avenue, SW

Washington, DC 20201

www.hhs.gov/nvpo/pandemics/index.html

## Department of Health and Human Services, U.S. Public Health Service, National Disaster Medical System

USPHS Office of Emergency Preparedness

National Disaster Medical System 12300 Twinbrook Parkway, Suite 360

Rockville, MD 20857

(301) 443-1167 or (800) USA-NDMS (301) 443-5146 or (800) USA-KWIK (fax) www.oep.ndms.dhhs.gov/NDMS/ndms.html

## Department of Homeland Security/FEMA

Headquarters DHS Federal Center Plaza 500 C Street, SW Washington, DC 20472 (202) 646-4600 (202) 646-4060 (fax)

www.dhs.gov

### Department of Homeland Security/Ready.gov

www.ready.gov/default.html

Ready Business: www.ready.gov/business/index.html

Ready America: www.ready.gov/index.html

## Department of Homeland Security/FEMA

## National Disaster Medical System

500 C Street, SW Washington, DC 20472

(800) USA-NDMS or (800) 872-6367

(202) 646-4618 (fax) www.ndms.fema.gov

## Department of Homeland Security/Preparedness Directorate

## **United States Fire Administration**

National Fire Academy National Fire Data Center National Fire Programs

National Emergency Training Center (NETC)

16825 South Seton Avenue Emmitsburg, MD 21727 (800) 500-5164 www.usfa.fema.gov

## Department of Homeland Security/FEMA

Emergency Management Institute/Training Division

National Emergency Training Center www.training.fema.gov/emiweb

## Department of Homeland Security/FEMA National Incident Management System (NIMS) Integration Center

Copies of the NIMS document:

Call FEMA at (800) 480-2520, press option 4, ask for FEMA 501, National Incident Management System.

 $Download\ from\ NIMS\ Website: www.fema.gov/nims$ 

Contact the NIMS Integration Center: NIMS Integration Center @ dhs.gov or  $(202)\ 646-3850$ 

www.fema.gov/nims/nims\_about.shtm

## Department of Homeland Security/Preparedness

**Directorate** 

## Office of Grants and Training

810 7th Street, NW

Washington, DC 20531

ODP Centralized Scheduling and Information Desk (CSID) (800) 368-6498 (8:00 a.m. to 7:00 p.m. EST, Mon-Fri)

(202) 514-5566 (fax)

www.dhs.gov

## Department of Justice/Office for Domestic Preparedness

U.S. Department of Justice 950 Pennsylvania Avenue, NW Washington, DC 20530-0001

## Department of Transportation, Office of Hazardous Materials Safety

Research and Special Programs Administration

400 7th Street, SW Washington, DC 20590 (202) 366-4000

www.ojp.usdoj.gov/odp/

http://hazmat.dot.gov

### Department of Veterans Affairs, Veterans Health Administration

Emergency Management Strategic Healthcare Group

510 Butler Avenue, Building 203-B

Martinsburg, WV 25401 (304) 264-4835 (304) 264-4499 (fax) www.va.gov/emshg

## **Emergency Education Network, EENET**

National Emergency Training Center (NETC)

16825 South Seton Avenue Emmitsburg, MD 21727

(800) 500-5164

www.fema.gov/tab\_education.shtm

## **Emergency Management Institute, FEMA**

National Emergency Training Center (NETC)

16825 South Seton Avenue Emmitsburg, MD 21727

(800) 500-5164

www.training.fema.gov/emiWeb

## **Emergency Management Assistance Compact (EMAC)**

National Emergency Management Association

(859) 244-8217 www.emacweb.org

## **Emergency Response Guidebook**

First Responder's Guide for HAZMAT Operations, DOT, 2004

hazmat.dot.gov/pubs/erg2004/gydebook.htm

Download: hazmat.dot.gov/pubs/erg2004/erg2004.pdf

### Environmental Protection Agency, Chemical Emergency **Preparedness and Prevention**

Ariel Rios Federal Building 1200 Pennsylvania Avenue, NW Washington, DC 20460

(800) 424-9346 (toll free)

(703) 412-9810 (metropolitan DC area and international calls)

www.epa.gov/ceppo or www.epa.gov/swercepp

## **Environmental Protection Agency, Environment** Response Team

2890 Woodbridge Avenue Building 18, MS 101 Edison, NJ 08837 (732) 321-6740 www.ert.org/

#### **Environmental Protection Agency, National Response System**

Ariel Rios Federal Building 1200 Pennsylvania Avenue, NW Washington, DC 20460

(202) 260-2090

www.epa.gov/superfund/programs/er/nrs/index.htm

## Federal Emergency Management Agency (FEMA)

500 C Street, SW Washington, DC 20472

Federal Response Plan: www.fema.gov

## State and Local Guide (SLG) 101: Guide for All-Hazard **Emergency Operations Planning:**

www.fema.gov/rrr/gaheop.shtm

Bibliography Listing for Emergency Management: www.fema.gov/library or (202) 566-1600

## Hazardous Materials Information Resource System, Department of Defense, Defense Logistics Agency **Defense Supply Center Richmond**

ATTN: DSCR-VBA Jefferson Davis Highway Richmond, VA 23297-5685

(804) 279-5252 (804) 279-5337 (fax) www.dlis.dla.mil/hmirs

## The Health Library for Disasters, World Health Organization, and Pan-American Health Organization

www.helid.desastres.net/cgi\_bin/library.exe

## Homeland Security Integration Center, U.S. Army

MANSCEN

Homeland Security Office (ATZT-HLS)

203 Illinois Avenue Building 312, Room 304

Fort Leonard Wood, MO 65473-8936

(573) 596-0131 ext. 35328 (573) 563-8077 (fax) www.wood.army.mil/hls

## Learning Resource Center, National Emergency Training Center, FEMA/NFA, LRC Online Card Catalog

National Emergency Training Center

Learning Resource Center 16825 South Seton Avenue Emmitsburg, MD 21727

(301) 447-1000 (301) 447-1052 (fax)

www.lrc.fema.gov/index.html



ANNEX B 1600–23

## Local Emergency Planning Committee (LEPC) Database

www.epa.gov/swercepp/lepclist.htm

## National Animal Health Emergency Management System

www.usaha.org/nahems

## National Institute of Building Science (NIBS)

1090 Vermont Avenue, NW, Suite 700

Washington, DC 20005-4905

(202) 289-7800

(202) 289-1092 (fax)

www.nibs.org

## National Institute of Health, National Library of Medicine

MedlinePlus: Disasters and Emergency Preparedness

U.S. National Library of Medicine

8600 Rockville Pike

Bethesda, MD 20894

(888) 346-3656 (toll free)

(301) 594-5983

(301) 402-1384 (fax)

www.nlm.nih.gov/medlineplus/

disastersandemergencypreparedness.html

#### National Institutes of Health (NIH)

9000 Rockville Pike

Bethesda, MD 20892

(301) 496-4000

www.nih.gov

List of toll free numbers: www.nih.gov/health/infoline.htm

## National Institute for Occupational Safety and Health (NIOSH)

(800) 35-NIOSH or (800) 356-4674

(513) 533-8573 (fax)

www.cdc.gov/niosh/homepage.html

## National Institute of Occupational Safety and Health (NIOSH) Publications

(800) 35-NIOSH or (800) 356-4674

(513) 533-8328 (outside the U.S.)

(513) 533-8573 (fax)

(888) 232-3299 (fax-on-demand)

www.cdc.gov/niosh/publistd.html

## National Interagency Civil-Military Institute National Guard Bureau

937 North Harbor Drive

**Broadway Navy Complex** 

Building 1, 2nd Deck

San Diego, CA 92132

Office of the Director: (619) 532-1486

(619) 532-1571 (fax)

www.jitc-west.org/index.html

## National Laboratory Training Network, CDC

Association of Public Health Laboratories

2025 M Street, NW, Suite 550

Washington, DC 20036

(202) 822-5227 or (800) 536-6586

(202) 887-5098 (fax)

www.aphl.org

### **National Library of Medicine**

8600 Rockville Pike

Bethesda, MD 20894

(888) 346-3656 (local and international calls)

(301) 594-5983

(301) 402-1384 (fax)

www.nlm.nih.gov

#### National Oceanic and Atmospheric Administration (NOAA)

14th Street and Constitution Avenue, NW

Washington, DC 20230

(202) 482-6090

(202) 482-3154 (fax)

www.noaa.gov

## The National Response Center, Chemical/HAZMAT Spills

c/o United States Coast Guard (G-OPF)

2100 2nd Street, SW, Room 2611

Washington, DC 20593-0001

(800) 424-8802 (toll free)

(202) 267-2675 (direct)

(202) 267-2165 (fax)

(202) 267-4477 (TDD)

www.nrc.uscg.mil/nrchp.html

## National Response Plan

#### DHS/FEMA

(800) 368-6498

Download site: www.dhs.gov/interweb/assetlibrary/NRP\_

FullText.pdf

#### FEMA

500 C Street, SW

Washington, DC 20472

## National Wildlife Health Center, USGS

Center Director

(608) 270-2401

www.nwhc.usgs.gov

#### Occupational Safety and Health Administration (OSHA)

National Office — U.S. Department of Labor

200 Constitution Avenue, NW

Washington, DC 20210

(800) 321-OSHA (6742)

(877) 889-5627 (TTY)

www.osha.gov

## Office of Counterproliferation and Chemical Biological Defense, Department of Defense

www.acq.osd.mil/cp/

### Office of Homeland Security

The White House

1600 Pennsylvania Avenue, NW

Washington, DC 20500

(202) 456-1414

(202) 456-2461 (fax)

www.whitehouse.gov/homeland

## Public Health Service (DHHS) Office of Emergency Preparedness

(Manages the National Disaster Medical System)

http://ndms.dhhs.gov/index.html

## Public Health Training Network, Center for Disease Control

(800) 311-3435

www.phppo.cdc.gov/phtn/default.asp

## U.S. Army Center for Health Promotion & Preventive Medicine

5158 Blackhawk Road

Aberdeen Proving Ground, MD 21010-5403

(800) 222-9698

https://chppm-www.apgea.army.mil

### U.S. Army Chemical School

Fort Leonard Wood Staff Duty Office

(573) 563-8053 (commercial phone)

www.wood.army.mil/usacmls

### U.S. Army Corps of Engineers

For General Information:

Public Affairs Office, CEPA

(202) 761-0011

www.usace.army.mil

## U.S. Army Medical Department

www.armymedicine.army.mil

### U.S. Army Medical Research Institute of Chemical Defense

Commander

U.S. Army Medical Research Institute of Chemical Defense

3100 Ricketts Point Road

Aberdeen Proving Ground, MD 21010-5400

(410) 436-3628

(410) 436-1960 (fax)

http://chemdef.apgea.army.mil

## U.S. Army Medical Research Institute of Chemical Defense, Chemical Casualty Care Division

Commander

U.S. Army Medical Research Institute of Chemical Defense (USAMRICD)

ATTN MCMR-UV-ZM

3100 Ricketts Point Road

Aberdeen Proving Ground, MD 21010-5400

(410) 436-2230

(410) 436-3086 (fax)

https://ccc.apgea.army.mil

## U.S. Army Medical Research and Material Command

https://mrmc-www.army.mil

## U.S. Army Soldier and Biological Chemical Command (SBCCOM)

www.sbccom.apgea.army.mil

## U.S. Coast Guard Command Center

www.uscg.mil/hq/commandcenter/oc.htm

## U.S. Geological Survey

Headquarters

USGS National Center

John W. Powell Federal Building

12201 Sunrise Valley Drive

Reston, VA 20192

(703) 648-4000 (main switchboard)

(888) 275-8747

www.usgs.gov

## U.S. Geological Survey/National Earthquake Information Center

Box 25046, DFC

Denver, CO 80225-0046

(303) 273-8500

(303) 273-8450 (fax)

Earthquake Information Line: (303) 273-8516 (prerecorded information on earthquakes located during the previous 24 hours)

http://neic.usgs.gov

## U.S. Geological Survey/National Landslide

## **Information Center**

(800) 654-4966

(303) 273-8600 (fax)

http://landslides.usgs.gov/index.html

#### U.S. Marine Corps, Chemical Biological Incident Response Force

(301) 744-2041 (Public Affairs Officer)

(301) 744-2038 (Command Duty Officer)

www.cbirf.usmc.mil

## **U.S. Nuclear Regulatory Commission**

Office of Public Affairs (OPA)

Washington, DC 20555

(301) 415-8200 or (800) 368-5642

www.nrc.gov

#### U.S. Public Health Service,

## **National Disaster Medical System**

500 C Street SW

Washington, DC 20472

(800) USA-NDMS or (800) 872-6367

(202) 646-4618 (fax)

www.oep.ndms.dhhs.gov

### **U.S. Secret Service**

Office of Government Liaison & Public Affairs

245 Murray Drive

Building 410

Washington, DC 20223

(202) 406-5708

www.treas.gov/usss/index.shtml

## USAID — Office of U.S. Foreign Disaster Assistance (OFDA)

U.S. Agency for International Development Information Center

Ronald Reagan Building

Washington, DC 20523-1000

(202) 712-4810

(202) 216-3524 (fax)

www.usaid.gov/hum\_response/ofda

## **B.3** Non-Governmental Emergency Management and Related Organizations.

### B.3.1 Africa.

#### **UN/ISDR** Africa

Block U, Room 217

UNEP, Gigiri, Nairobi, Kenya

+ 254 2 62 41 01

+ 254 2 62 47 26 (fax)

ISDR-Africa@unep.org

www.unisdrafrica.org

#### B.3.2 Canada.

### Air Transport Association of Canada (ATAC)

1100-255 Albert St.

Ottawa, ON K1T 3W8



Canada

(613) 233-7727

(613) 230-8648 (fax)

www.atac.ca

Canadian Association of Chiefs of Police (CACP)

582 Somerset Street W Ottawa, ON K1R 5K2

Canada

(613) 233-1106

(613) 233-6960 (fax)

www.cacp.ca

**Canadian Association of Chemical Distributors** 

627 Lyons Lane #301 Oakville, ON L6J 5Z7

Canada

(905) 844-9140

(905) 844-5706 (fax)

www.cacd.ca

Canadian Association of Fire Chiefs (CAFC)

P.O. Box 1227, Station B Ottawa, ON K1P 5R3

Canada

(613) 270-9138

(613) 599-7027 (fax)

www.cafc.ca

Canadian Association of Oilwell Drilling Contractors (CAODC)

Manager, Technical Services (CAODC)

800, 540 - 5 Avenue SW

Calgary, AB T2P 0M2

Canada

(403) 264-4311

(403) 263-3796 (fax)

www.caodc.ca

Canadian Association of Petroleum Producers (CAPP)

2100, 350 7th Avenue SW Calgary, AB T2P 3N9

Canada

(403) 267-1100

(403) 261-4622 (fax)

www.capp.ca

**Canadian Center for Pollution Prevention** 

100 Charlotte Street Sarnia, ON N7T 4R2

Canada

(519) 337-3423 or (800) 667-9790

(519) 337-3486 (fax) www.c2p2online.com

Canadian Chemical Producers' Association (CCPA)

350 Sparks Street

Suite 805

Ottawa, ON K1R 7S8

Canada

(613) 237-6215

(613) 237-4061 (fax)

www.ccpa.ca

Canadian Emergency Response Contractors Alliance (CERCA)

c/o CCPA

350 Sparks Street

Suite 805

Ottawa, ON K1R 7S8

Canada

(613) 237-6215

(613) 237-4061 (fax)

www.ccpa.ca/issues/transportation/cerca.aspx

Canadian Gas Association (CGA)

350 Sparks Street, Suite 809

Ottawa, ON K1R 7S8

Canada

(613) 748-0057

(613) 748-9078 (fax)

www.cga.ca

**Canadian Interagency Forest Fire Center (CIFFC)** 

210-301 Weston Street

Winnipeg, MB R3E 3H4

Canada

(204) 784-2030

(204) 956-2398 (fax)

www.ciffc.ca

Canadian National Rail (CN Rail)

Dangerous Goods and Responsible Care

935 de la Gauchetiere Street West

Montreal, QC H3B 2M9

Canada

(888) 888-5909

www.cn.ca

**Canadian Red Cross** 

170 Metcalfe Street, Suite 300

Ottawa, ON K2P 2P2

Canada

(613) 740-1900

(613) 740-1911 (fax)

www.redcross.ca

Canadian Society of Safety Engineering (CSSE)

39 River Street

Toronto, ON M5A 3P1

Canada

(416) 646-1600

(416) 646-9460 (fax)

www.csse.org

Canadian Standards Association (CSA)

5060 Spectrum Way

Mississauga, ON L4W 5N6

Canada

(416) 747-4000 or (800) 463-6727

(416) 747-2473 (fax)

www.csa.ca

**Disaster Recovery Information Exchange (DRIE)** 

Canada

157 Adelaide Street West

P.O. Box 247

Toronto, ON M5H 4E7

Canada

(647) 299-DRIE (3743)

www.drie.org

Disaster Recovery Institute Canada (DRI Canada)

200 Sanders Street, Suite 201

P.O. Box 552

Kemptville, ON K0G 1J0

Canada

(613) 258-2271

(888) 728-DRIC (3742)

(613) 258-1447 (fax)

www.dri.ca

**DRIE Atlantic** 

644 Main Street

P.O. Box 220 Moncton, NB E1C 8L3

Canada

(506) 853-3729

(506) 863-4678 (cellular)

www.drie.org/atlantic

**DRIE Central** 

P.O. Box 27271

360 Main Street

Winnipeg, MB R3C 4T3

Canada

www.drie.org/central

**DRIE Montreal** 

600 Montée du Moulin

Casier Postal 74012

Laval, QC H7A 4A2

Canada

(514) 280-4044 (fax)

www.drie-montreal.org

**DRIE Ottawa** 

P.O. Box 20518

390 Rideau Street

Ottawa, ON K1N 1A3

Canada

www.drieottawa.org

**DRIE South Western Ontario** 

c/o Mike Ross

208-1063 King Street West

Hamilton, ON L8S 4S3

Canada

(800) 461-3095

(905) 526-9056 (fax)

www.drie-swo.org

**DRIE Toronto** 

157 Adelaide Street West

P.O. Box 247

Toronto, ON M5H 4E7

Canada

(647) 299-3743

www.drie.org/toronto

**DRIE West** 

P.O. Box 1557, Station M

Calgary, AB T2P 3B9

Canada

(403) 254-4376

www.drie.org/west

**Federation of Canadian Municipalities** 

24 Clarence Street

Ottawa, ON K1A 0W6

Canada

(613) 241-5221

(613) 241-7440 (fax)

www.fcm.ca

**Industrial Accident Prevention Association (IAPA)** 

207 Queen's Quay West, Suite 550

Toronto, ON M5J 2Y3

Canada

(416) 506-8888

(800) 669-4939 (toll free)

(416) 506-8880 (fax)

www.iapa.ca

Liquefied Petroleum Gas Emergency Response Corporation

800-717 7th Avenue SW

Calgary, AB T2P 0Z3

Canada

(403) 543-6090

(403) 543-6099 (fax)

www.propanegas.ca/lpgerc/index.asp

Ontario Association of Emergency Managers (OAEM)

2150 Burnhamthorpe Road West

P.O. Box 67043

Mississauga, ON L5L 5V4

Canada

Contact: president2006@oaem.ca

www.oaem.ca

**Ontario Trucking Association** 

555 Dixon Road

Toronto, ON M9W 1H8

Canada

(416) 249-7401

(416) 245-6152 (fax)

www.ontruck.org

Railway Association of Canada

99 Bank Street, Suite 1401

Ottawa, ON K1P 6B9

Canada

(613) 567-8591

(613) 567-6726 (fax)

www.railcan.ca

B.3.3 Germany.

UN/ISDR Platform for the Promotion of Early Warning

Görresstrasse 30

D-53113 Bonn, Germany

0049 228 249 88 10

0049 228 249 88 88 (fax)

isdr-ppew@un.org

www.unisdr-earlywarning.org



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ANNEX B 1600–27

#### **B.3.4** Latin America.

#### UN/ISDR Latin America and the Caribbean

P.O. Box 3745-1000 San José, Costa Rica +506 224 1186 +506 224 7758 (fax) eird@eird.org www.eird.org

## B.3.5 Norway.

### **International Emergency Management Society (TIEMS)**

P.O. Box 2777 Soli, N-0204 Oslo, Norway www.tiems.org

#### B.3.6 Switzerland.

#### **International Civil Defense Organization**

10-12 Chemin de Surville P.O. Box 172 1213 Petit-Lancy 2 Geneva, Switzerland +41 22 879-6969 +41 22 879 6979 (fax) www.icdo.org

## International Federation of Red Cross and Red Crescent Societies

PO Box 372 CH-1211 Geneva 19 Switzerland +41 22 730 42 22 +41 22 733 03 95 (fax) www.ifrc.org/index.ssd

## United Nations Inter-Agency Secretariat of the International Strategy for Disaster Reduction (UN/ISDR)

Palais des Nations CH 1211 Geneva 10, Switzerland +41 22 9172529 / 762 / 759 +41 22 9170563 (fax) isdr@un.org www.unisdr.org

## **World Health Organization**

Avenue Appia 20 1211 Geneva 27 Switzerland (+00 41 22) 791 21 11 (+00 41 22) 791 31 11 (fax) www.who.ch

#### B.3.7 Thailand.

www.adpc.net

#### Asian Disaster Preparedness Center

58 Moo 9, Km. 42, Paholyothin Highway Klong Luang, Pathumthani 12120 Thailand (66) 02 516 5900 or (66) 02 516 5910 or (66) 02 524 5350 (66) 02 524 5360 (fax)

## B.3.8 United Kingdom.

#### The Business Continuity Institute

10-11 Southview Park Marsack Street Caversham Reading Berkshire, RG4 5AF

Berksnire, KG4 5AF

England

+44 (0) 870 603 8783 +44 (0) 870-603-8761 (fax) www.thebci.org

## **UK Financial Services Authority**

www.fsa.gov.uk

#### **B.3.9** United States.

## AFCOM (formerly Association for Computer Operations Management)

742 East Chapman Avenue
Orange, CA 92866
(714) 997-7966
(714) 997-9743 (fax)
www.afcom.com/afcomnew/index.asp

## Amateur Radio Emergency Services

www.ares.org

## **America's Second Harvest**

35 East Wacker Drive, #2000 Chicago, IL 60601

(319) 963-9303 or (80)

 $(312)\ 263\text{-}2303 \text{ or } (800)\ 771\text{-}2303$ 

(312) 263-5626

www.secondharvest.org

## American Academy of Emergency Medicine

555 East Wells Street Milwaukee, WI 53202-3823 (800) 884-2236 (414) 276-3349 (fax) www.aaem.org

### American Academy of Medical Administrators

701 Lee Street, Suite 600 Des Plaines, IL 60016-4516 (847) 759-8601 (847) 759-8602 (fax) www.aameda.org

## **American Civil Defense Association**

## The American Civil Defense Association

P.O. Box 1057 Starke, FL 32091 (800) 425-5397 or (904) 964-5397 (904) 964-9641 (fax)

## American Public Works Association

1401 K Street, NW, 11th Floor Washington, DC 20005 (202) 408-9541 (202) 408-9542 (fax) www.apwa.net

www.tacda.org

## American Radio Relay League

225 Main Street

Newington, CT 06111-1494

(860) 594-0200

(860) 594-0259 (fax)

www.arrl.org

#### **American Red Cross**

#### American Red Cross National Headquarters

2025 E Street, NW

Washington, DC 20006

(202) 303-4498 or (877) 272-7337

Disaster assistance info: (866) 438-4636

www.redcross.org

#### **American Society for Industrial Security**

#### **ASIS International**

1625 Prince Street

Alexandria, VA 22314-2818

(703) 519-6200

(703) 519-6299 (fax)

www.asisonline.org

## American Society for Public Administration (ASPA)

1120 G Street, NW, Suite 700

Washington, DC 20005

(202) 393-7878

(202) 638-4952 (fax)

www.aspanet.org/scriptcontent/index.cfm

## American Society of Civil Engineers (ASCE)

World Headquarters

1801 Alexander Bell Drive

Reston, VA 20191-4400

(800) 548-2723

(703) 295-6300 (international)

(703) 295-6222 (fax)

www.asce.org

## American National Standards Institute (ANSI) Homeland Security Standards Panel (HSSP)

25 West 43rd Street

New York, NY 10036

(212) 642-4992

(212) 840-2298 (fax)

www.ansi.org/hssp

ANSI Homeland Security Standards Database (HSSD)

### Applied Technology Council (West Coast Office)

201 Redwood Shores Parkway, Suite 240

Redwood City, CA 94065

(650) 595-1542

(650) 593-2320 (fax)

## Applied Technology Council (East Coast Office)

2111 Wilson Boulevard, Suite 700

Arlington, VA 22201

(703) 351-5052

(703) 351-9532 (fax)

www.atcouncil.org

## Association of Contingency Planners (ACP)

### **National Headquarters**

#### Technical Enterprises, Inc. (TEI)

7044 South 13th Street

Oak Creek, WI 53154

(800) 445-4227 x450 (information)

(800) 445-4227 x116 (membership)

www.acp-international.com

#### Association of Energy Engineers

4025 Pleasantdale Road., Suite 420

Atlanta, GA 30340

(770) 447-5083

(770) 446-3969 (fax)

www.aeecenter.org

## Association of Environmental & Engineering Geologists (AEG)

P.O. Box 460518

Denver, CO 80246

(303) 757-2926

(303) 757-2969 (fax)

www.aegweb.org

## Association of Public-Safety Communications Officials (APCO) International

World Headquarters

351 North Williamson Boulevard

Daytona Beach, FL 32114-1112

(386) 322-2500 or (888) 272-6911

(386) 322-2501 (fax)

www.apcointl.org

### Association of Records Managers & Administrators (ARMA)

## ARMA International

13725 West 109th Street, Suite 101

Lenexa, KS 66215

(913) 341-3808 or (800) 422-2762 (U.S. and Canada)

(913) 341-3742 (fax)

www.arma.org

## Association of Specialists in Cleaning & Restoration International (ASCR)

8229 Cloverleaf Drive, Suite 460

Millersville, MD 21108

(800) 272-7012

(410) 729-3603 (fax)

www.ascr.org

## Association of State Dam Safety Officials (ASDSO)

450 Old Vine Street, 2nd Floor

Lexington, KY 40507-1544

(859) 257-5140

(859) 323-1958 (fax)

www.damsafety.org

### Association of State Floodplain Managers, Inc.

2809 Fish Hatchery Road

Madison, WI 53713

(608) 274-0123

(608) 274-0696 (fax)

www.floods.org/home/default.asp



ANNEX B 1600-29

## Association of Traumatic Stress Specialists (ATSS)

P.O. Box 2747

Georgetown, TX 78627 (512) 868-3677 (512) 868-3678 (fax)

www.atss-hq.com

## **Building Owners and Managers Association (BOMA) International**

1201 New York Avenue, NW, Suite 300

Washington, DC 20005 (202) 408-2662 (202) 371-0181 (fax) www.boma.org

## **Building Seismic Safety Council (BSSC) National Institute of Building Seismic**

1090 Vermont Avenue, NW, Suite 700

Washington, DC 20005 (202) 289-7800 (202) 289-1092 (fax) www.bssconline.org

### Business Network of Emergency Resources, Inc.

11 Hanover Square, Suite 501

New York, NY 10005 (888) 353-2638 www.bnetinc.org

## Center for Biosecurity

University of Pittsburgh Medical Center

The Pier IV Building

621 East Pratt Street, Suite  $210\,$ 

Baltimore, MD 21202 (443) 573-3304 (443) 573-3305 (fax) www.upmc-biosecurity.org

## Center for Earthquake Research and Information (CERI)

University of Memphis 3876 Central Avenue Suite 1 Memphis, TN 38152-3050

(901) 678-2007

www.ceri.memphis.edu

## Center of Excellence in Disaster Management & Humanitarian Assistance

Tripler Army Medical Center 1 Jarrett White Road (MCPA-DM) Tripler Army Medical Center

HI 96859-5000 (808) 433-7035 (808) 433-1757 (fax)

## Central U.S. Earthquake Consortium (CUSEC)

2630 East Holmes Road Memphis, TN 38118

(901) 544-3570 or (800) 824-5817

(901) 544-0544 (fax) www.cusec.org

## **Chartered Property Casualty Underwriters Society (CPCU)**

720 Providence Road Malvern, PA 19355-0709 (800) 932-2728 (610) 251-2780 (fax) www.cpcusociety.org

#### **DRI** International

201 Park Washington Court Falls Church, VA 22046-4513

(703) 538-1792 (703) 241-5603 (fax) www.drii.org

## **Earthquake Engineering Research Institute**

499 14th Street, Suite 320 Oakland, CA 94612-1934

(510) 451-0905 (510) 451-5411 (fax) www.eeri.org

## **Emergency Infrastructure Partnership (EIIP)**

Avagene Moore www.emforum.org

EIIP Newsletter: www.emforum.org/eiip/news.htm

## **Emergency Management Laboratory**

P.O. Box 117, MS-11 Oak Ridge, TN 37831-0117 (865) 576-9647

(865) 576-9647 www.orau.gov/eml

## Florida Emergency Medicine Foundation

## **Emergency Medicine Learning and Resource Center**

3717 South Conway Road Orlando, FL 32812

(407) 281-7396 or (800) 766-6335

(407) 281-4407 (fax) www.femf.org

## Global Warming International Center (GWIC)

22W381, 75th Street Naperville, IL 60565-9245 (630) 910-1551 (630) 910-1561 (fax)

www.GlobalWarming.net

## **Humane Society of the United States**

2100 L Street, NW Washington, DC 20037 (202) 452-1100 www.hsus.org/index.html

#### **IT Governance Institute**

3701 Algonquin Road, Suite 1010 Rolling Meadows, IL 60008 (847) 590-7491 (847) 253-1443 (fax)

www.itgi.org

## Information Systems Audit & Control Association/Foundation (ISACA)

3701 Algonquin Road, Suite 1010 Rolling Meadows, IL 60008

(847) 253-1545 (847) 253-1443 (fax) www.isaca.org

## Information Systems Security Association (ISSA)

Technical Enterprises, Inc. 7044 S 13th Street

Oak Creek, WI 53154

(414) 908-4949

(800) 370-4772 (toll free in U.S.)

(414) 768-8001 (fax)

www.issa.org

#### Institute for Business and Home Safety (IBHS)

4775 E Fowler Avenue Tampa, FL 33617 (813) 286-3400 (813) 286-9960 (fax) www.ibhs.org

#### **Insurance Information Institute (III)**

110 William Street New York, NY 10038 (212) 346-5500 www.iii.org

#### International Association of Arson Investigators (IAAI)

12770 Boenker Road Bridgeton, MO 63044 (314) 739-4224 (314) 739-4219 (fax) www.firearson.com

#### International Association of Chiefs of Police (IACP)

515 N Washington Street Alexandria, VA 22314

(703) 836-6767 or (800) THE IACP

(703) 836-4543 (fax) www.theiacp.org

## International Association of Fire Chiefs (IAFC)

4025 Fair Ridge Drive, Suite 300

Fairfax, VA 22033-2868 (703) 273-0911

(703) 273-9363 (fax)

www.iafc.org/home/index.asp

### International Association of Marine Investigators (IAMI)

711 Medford Center #419 Medford, OR 97504 (866) 844-4264 (541) 857-8498 (fax) www.iamimarine.org

## International City/County Management Association (ICMA)

Director, Program Development

777 North Capitol Street, NE, Suite 500

Washington, DC 20002 (202) 289-4262 (202) 962-3500 (fax) www.icma.org

## **International Critical Incident Stress Foundation**

3290 Pine Orchard Lane, Suite 106

Ellicott City, MD 21042

(410) 750-9600

(410) 313-2473 (emergency)

(410) 750-9601 (fax)

www.icisf.org

## **International Disaster Recovery Institute**

c/o BWT Associates P.O. Box 4515 Shrewsbury, MA 01545 (508) 845-6000 (508) 842-9003 (fax) www.idra.com

#### International Facility Management Association (IFMA)

1 E Greenway Plaza, Suite 1100 Houston, TX 77046-0194 (713) 623-4362 (713) 623-6124 (fax)

www.ifma.org

## Multidisciplinary Center for Earthquake Engineering Research

University at Buffalo, State University of New York Red Jacket Quadrangle

Red Jacket Quadrangte Buffalo, NY 14261 (716) 645-3391 (716) 645-3399 (fax) www.mceer.buffalo.edu

## National Association of Catastrophe Adjusters, Inc.

P.O. Box 821864

North Richland Hills, TX 76182

(817) 498-3466 (817) 498-0480 (fax) www.nacatadj.org

## National Association of Counties (NACO)

440 First Street, NW, Suite 800 Washington, DC 20001 (202) 393-6226 (202) 393-2630 (fax) www.naco.org

## National Association of EMS Physicians (NAEMSP)

P.O. Box 15945-281 Lenexa, KS 66285-5945 (913) 492-5858 or (800) 228-3677 (913) 599-5340 (fax)

## National Association of Emergency Medical Technicians (NAEMT)

P.O. Box 1400

www.naemsp.org

Clinton, MS 39060-1400

(601) 924-7744 or (800) 34 NAEMT (62368)

(601) 924-7325 (fax) www.naemt.org

## National Association of SARA Title III Program Officials (NASTTPO)

577 Wickham Way Gahanna, OH 43230 www.nasttpo.org

#### National Association for Search and Rescue

25671 Tremaine Terrace South Riding, VA 20152



(703) 222-6277

(877) 893-0702 (toll free) (703) 222-6283 (fax)

www.nasar.org/nasar

## National Center for Post-Traumatic Stress Disorder

Department of Veterans Affairs National Center for PTSD (802) 296-6300

www.ncptsd.va.gov

#### **National Defense Industrial Association**

2111 Wilson Boulevard, Suite 400

Arlington, VA 22201 (703) 522-1820 (703) 522-1885 (fax)

www.ndia.org

## National Emergency Management Association (NEMA)

P.O. Box 11910

Lexington, KY 40578-1910

(859) 244-8000 (859) 244-8239 (fax)

www.nemaweb.org/index.cfm

#### **National Environmental Health Association**

720 S Colorado Boulevard, Suite 970-S

Denver, CO 80246-1925 (303) 756-9090 (303) 691-9490 (fax)

www.neha.org

#### National Governors Association (NGA)

Committee Director, Justice and Safety

Hall of the States 444 North Capitol Street Washington, DC 20001-1572

(202) 624-5300 (202) 624-5313 (fax) www.nga.org

## National Institute for Urban Search and Rescue

P.O. Box 91648

Santa Barbara, CA 93190

(805) 569-5066 www.niusr.org

#### **National Safety Council**

1121 Spring Lake Drive Itasca, IL 60143-3201 (630) 285-1121 (630) 285-1315 (fax) www.nsc.org

National Voluntary Organizations Active in Disaster (NVOAD)

5960 Kingstowne Center, Suite 120, PMB 111

Alexandria, VA 22315 (703) 339-5596 (253) 541-4915 (fax) www.nvoad.org

#### **National Watershed Coalition**

1023 Manvel, Suite D P.O. Box 556 Chandler, OK 74834 (405) 627-0670

www.watershedcoalition.org

#### North East States Emergency Consortium

1 West Water Street Wakefield, MA 01880 (781) 224-9876 (781) 224-4350 (fax) www.nesec.org

## New England Disaster Recovery Information Exchange (NEDRIX)

McCormack P.O. Box 155 Boston, MA 02101-0155 (781) 485-0279 (781) 385-1616 (fax) www.nedrix.com

## Pacific Earthquake Engineering Research Center

University of California, Berkeley 1301 South 46th Street

Richmond, CA 94804-4698

(510) 231-9554 (510) 231-9471 (fax) http://peer.berkeley.edu

## Pan American Health Organization

525 23rd Street, NW Washington, DC 20037-2895 (202) 974-3000 (202) 974-3663 (fax) www.paho.org

#### **PRISM International**

605 Benson Road, Suite B

Garner, NC 27529

(919) 771-0657 or (800) 336-9793

(919) 771-0457 (fax) www.prismintl.org

#### Private and Public Businesses, Inc.

P.O. Box 510229 St. Louis, MO 63151-0110 (314) 894-2052 www.ppbi.org

## **Public Risk Management Association**

500 Montgomery Street, Suite 750

Alexandria, VA 22314 (703) 528-7701 (703) 739-0200 (fax) www.primacentral.org

## Risk and Insurance Management Society (RIMS)

1065 Avenue of the Americas, 13th Floor New York, NY 10018

(212) 286-9292 www.rims.org

## Seismological Society of America

201 Plaza Professional Building

El Cerrito, CA 94530 (510) 525-5474 (510) 525-7204 (fax) www.seismosoc.org

#### Society for Risk Analysis

1313 Dolley Madison Boulevard

Suite 402

McLean, VA 22101 (703) 790-1745

www.sra.org

### South East Business Recovery Exchange

www.drj.com/groups/sebre.htm

## Southern California Earthquake Center

University of Southern California 3651 Trousdale Parkway, Suite 169 Los Angeles, CA 90089-0742

(213) 740-5843

www.scec.org

## State Guard Association of the United States (SGAUS)

P.O. Box 1416

Fayetteville, GA 30214-1416

(770) 460-1215

www.sgaus.org

## Storage Networking Industry Association

500 Sansome Street, Suite 504 San Francisco, CA 94111

(415) 402-0006 ext. 103

(415) 402-0009 (fax)

www.snia.org/home

## Volunteers in Technological Assistance

1600 Wilson Boulevard, Suite 1030

Arlington, VA 22209 (703) 276-1800

(703) 243-1865 (fax)

www.vita.org

## Western States Seismic Policy Council

644 Emerson Street, Suite 22

Palo Alto, CA 94301

(650) 330-1101

(650) 330-1973 (fax)

www.wsspc.org

### **B.4** Academic Institutions.

## **B.4.1** Coordination Project for Higher Education Programs Including FEMA Higher Education Project.

## **FEMA Higher Education Project**

National Emergency Training Center Emergency Management Institute

16825 S Seton Avenue

Emmitsburg, MD 21727

(301) 447-1000

(301) 447-1346 (fax)

(301) 447-1441 or (301) 447-1000 (admissions fax)

http://training.fema.gov/EMIWeb/edu

### B.4.2 Canada.

#### Fire Etc., Division of Lakeland College

Integrated Response Training, Risk Management Training 5704 47 Avenue

Vermilion, AB T9X 1K4

Canada

(780) 853-5800 or (888) 863-2387 (Canada only)

(780) 853-3008 (fax)

www.fire-etc.ca

#### Fleming College

1005 Elgin Street West

Cobourg, ON K9A 5J4

(866) 353-6464 or (905) 372-6865

(705) 749-5525 (fax)

www.flemingc.on.ca

#### Lambton College of Applied Arts and Technology

Fire Science Technology Program

1457 London Road

Sarnia, ON N7S 6K4

Canada

(519) 542-7751

www.lambton.on.ca

#### **McGill University**

School of Environment

MSE Administration

3534 University

Montreal, QC H3A 2A7

Canada

(514) 398-5331 or (514) 398-4306

(514) 398-1643 (fax)

www.mcgill.ca/mse

### **Underwriters Laboratories of Canada**

## **UL University Customer Training Workshops**

7 Underwriters Road

Toronto, ON M1R 3B4

Canada

(888) 503-5536

www.uluniversity.com/ca

## University of Québec, Trois-Rivières

Gestion des Matières Dangereuses (GMD)

3351 Boulevard des Forges

C.P. 500, Trois-Rivières, QC G9A 5H7

Canada

(819) 376-5011 ext. 2687

(819) 376-5012 (fax)

www.uqtr.uquebec.ca/sppu/gmd.html

## University of Toronto, Center for Environment

Earth Sciences Building

33 Willcocks Street, Room 1016V

Toronto, ON M5S 3E8

Canada

 $(416)\ 978\text{-}6526$ 

www.environment.utoronto.ca

## **B.5** Periodicals and Publications.

## B.5.1 Canada.

## L'Actualite Chimique Canadienne / Canadian Chemical News (ACCN)

Chemical Institute of Canada

www.chimiste.ca/publications/accn/cicfrm\_index\_e.htm

## Canada Institute for Scientific and Technical Information (CISTI)

National Research Council of Canada

Journal listings: http://cisti-icist.nrc-cnrc.gc.ca/main\_e.html

 $http://pubs.nrc\text{-}cnrc.gc.ca/cgi\text{-}bin/rp/rp2\_jour\_e$ 



ANNEX B 1600–33

## The Canadian Journal of Chemical Engineering

Canadian Society for Chemical Engineering (CSChe)

130 Slater Street, Suite 550

Ottawa, ON K1P 6E2

Canada

 $www.chemistry.ca/publications/cjche/cschefrm\_index\_\_$ 

C.IIIIII

#### **Canadian Journal of Chemistry**

**NRC Research Press** 

National Research Council of Canada

Ottawa, ON K1A 0R6

Canada

http://pubs.nrc-cnrc.gc.ca/cgi-bin/rp/rp2\_desc\_e?cjc

### Journal of Hazardous Materials

Environmental Control, Risk Assessment, Impact and

Management ISSN: 0304-3894

www.elsevier.com/wps/find/journaldescription.cws\_

home/502691/description#description

## Occupational Health and Safety Magazine

Business Information Group, a division of Hollinger

Canadian Newspapers, L.P.

www.ohscanada.com/about/about.asp

#### Transport of Dangerous Goods Newsletter

Transport Canada, Transport of Dangerous Goods

Directorate

www.tc.gc.ca/tdg/newsletter/menu/htm

#### **B.5.2 United States.**

Newsletter

## CB Quarterly, U.S. Army Soldiers and Biological Chemical Command

www.sbccom.apgea.army.mil/rda/quarterly/index.htm

## The Chemical and Biological Information Analysis Center

www.cbiac.apgea.army.mil/awareness/newsletter/intro.html

## CHPPM News Bulletins, U.S. Army Center For Health Promotion and Preventive Medicine

www.apgea.army.mil/imo/ddb/dmd/dmd/news.html

## CML, Army Chemical Review, U.S. Army Chemical School Periodical

www.wood.army.mil/chbulletin/default.htm

## **Contingency Planning and Management**

20 Commerce Street

Flemington, NJ 08822

(908) 788-0343

(908) 788-3782 (fax)

www.contingencyplanning.com

## **Disaster Recovery Journal**

P.O. Box 510110

St. Louis, MO 63151

(314) 894-0276

(314) 894-7474 (fax)

www.drj.com/

## Disaster Research Newsletter, University of Colorado

www.colorado.edu/hazards/sub.html

Disaster Resource.com, Online Journal www.disaster-resource.com

## Dispatch, The Chemical and Biological Arms Control Institute

1747 Pennsylvania Avenue, NW, Seventh Floor

Washington, DC 20006

(202) 296-3550

(202) 296-3574 (fax)

www.cbaci.org/cbaci/index.html

## **Emerging Infectious Diseases Journal, CDC, National Center for Infectious Diseases**

Mailstop D-61

1600 Clifton Road

Atlanta, GA 30333

www.cdc.gov/ncidod/eid/index.htm

## Emergency Information Infrastructure Partnership Newsletter (EIIP)

www.emforum.org/eiip/news.htm

## **Emergency Preparedness Information Exchange (EPIX)**

http://epix.hazard.net

## Hazardous Technical Information Service Newsletter, Department of the Army

Defense Supply Center Richmond

DSCR-VBC/HTIS

8000 Jefferson Davis Highway

Richmond, VA 23297-5609

(804) 279-5168

(800) 848-4847

(804) 279-4194 (fax)

www.dscr.dla.mil/userweb/htis/htis.htm

### The Homeland Defense Journal

Homeland Defense Journal, Inc.

4301 Wilson Boulevard

Suite 1003

Arlington, VA 22203

(703) 807-2753

www.homelanddefensejournal.com/conf\_border2.htm

#### **Institute of Homeland Security**

www.homelanddefense.org

## The Journal of Homeland Security

www.homelandsecurity.org/journal

## Military Medical Technology Online

Kerrigan Media International, Inc.

1300 Piccard Drive, Suite 200

Rockville, MD 20850

(301) 926-5090

(888) 299-8292 (toll free)

(301) 926-5091 (fax)

www.military-medical-technology.com

## **Morbidity and Mortality Weekly Report**

Centers for Disease Control and Prevention

1600 Clifton Rd, Mailstop K-95

Atlanta, GA 30333

www.cdc.gov/mmwr

## National Fire and Rescue Magazine

www.nfrmag.com

# Natural Hazards Center, University of Colorado at Boulder

Consolidated list of sources

www.colorado.edu/hazards/resources/sites.html

# The Nonproliferation Review, Center for Nonproliferation Studies, Monterey Institute of International Studies

460 Pierce Street

Monterey, CA 93940

(831) 647-4154

(831) 647-3519 (fax)

http://cns.miis.edu/pubs/npr/index.htm

# Office for State and Local Domestic Preparedness Support Bulletins

#### Department of Justice

www.ojp.usdoj.gov/odp/docs/bulletins.htm

#### OSHA Job Safety and Health Quarterly Magazine

Occupational Safety & Health Administration

200 Constitution Avenue, NW

Washington, DC 20210

www.osha.gov/html/jshq-index.html

#### B.6 List Servers, Bulletins, Services, and Forums.

#### B.6.1 Canada.

(Note: Some mailing lists are restricted to particular programs and are by invitation only. Those are generally not shown here. Some of the following lists also have access restrictions.)

# Canada's National Occupational Health and Safety Website www.canoshweb.org/en/

#### North American Emergency Response Guidebook

Offered through CANUTEC, Transport Canada www.tc.gc.ca/canutec/ERG\_GMU/ERG2000\_menu.htm

# Canadian Transport of Dangerous Goods Act and Regulations

Transport Canada, Transport of Dangerous Goods Directorate

www.tc.gc.ca/tdg/clear/menu.htm

#### **Government of Canada Official Website**

www.canada.gc.ca

#### Reg Watch, Standards Alert

Search tool for Canadian and International Standards referenced in Canadian Federal Law

Standards Council of Canada Service

www.scc.ca/en/news\_events/subscriptions/regwatch.shtml www.scc.ca/en/news\_events/subscriptions/standards\_ alert\_shtml

#### **B.6.2 United States.**

(Note: Some mailing lists are restricted to particular programs and are by invitation only. Those are generally not shown here. Some of the following lists also have access restrictions.)

# **APIC Bioterrorism Resources**

www.apic.org/bioterror/

#### **BioHazard News**

www.biohazardnews.net/index.htm

# BIO-War. Biological Warfare Discussion List

http://lists.topica.com/lists/biowar

# **BioWeapons Prevention Project (BWPP)**

www.bwpp.org

# The Chemical and Biological Arms Control Institute, Chemical & Biological Arms Control Dispatch, Bulletin

www.cbaci.org/cbaci/index.html (e-mail to request service)

The Chemical and Biological Weapons Information Gateway www.cbwinfo.com/intro.html

# George Washington University Department of Emergency Medicine, Terrorism Discussion Group, List Server

http://gwu.edu/~gwems

# The Chemical and Biological Weapons Nonproliferation and Response Project

www.stimson.org/cwc

# Information Sharing and Analysis Centers (ISACs)

www.isaccouncil.com/sites/index.php

# Joint SIPRI-Bradford Chemical and Biological Warfare Project

http://projects.sipri.se/cbw/cbw-sipri-bradford.html

# Monterey Institute, Center for Nonproliferation Studies, Weapons of Mass Destruction Bulletin

http://cns.miis.edu/research/cbw/index.htm

# NIOSH Documentation for Immediately Dangerous To Life or Health Concentrations (IDLHs)

www.cdc.gov/niosh/idlh/intridl4.html

# Health Physics Society Reports and Other Information on Radiological Aspects of Weapons of Mass Destruction

http://hps.org/hsc/reports.html

# Stockholm International Peace Research Institute (SIPRI) Chemical and Biological Warfare Project

http://projects.sipri.se/cbw/cbw-mainpage.html

# The Terrorism Research Center, Information Bulletins www.terrorism.org/mailman/listinfo/realnews

Weapons of Mass Destruction Commission (WMDC) www.wmdcommission.org

#### WMD Info Share, List Server

To subscribe send email to:

wmdinfosharerequest@wmdfirstresponders.com with the word "subscribe" in the body of the message.

# WMD Links

www.msiac.dmso.mil/wmd/links.asp

# Annex C Additional Resources

This annex is not a part of the requirements of this NFPA document but is included for informational purposes only.

**C.1** The following lists of planning information resources, emergency management agencies of states and territories and incident management and training resources have been identified for informational purposes only and are not intended to be all-inclusive. Inclusion on the list does not constitute an endorsement by NFPA or the Technical Committee on Emergency Management and Business Continuity. The Internet contains a wealth of resources that should be explored for additional information.

# C.2 Planning Information Resources.

American Academy of Experts in Traumatic Stress (AAETS) 368 Veterans Memorial Highway

Commack, NY 11725



ANNEX C 1600–35

(631) 543-2217 (631) 543-6977 (fax)

www.aaets.org

# American Society of Safety Engineers (ASSE)

Customer Service 1800 E Oakton St Des Plaines, IL 60018

(847) 699-2929 between 8:30 a.m. and 5:00 p.m., CST

(847) 768-3434 (fax)

www.asse.org

#### **Association of Homeland Defense Professionals**

5659 Coventry Lane, #174 Fort Wayne, IN 46804 866-404-2437 260-459-6139 (fax)

#### **Chemical Education Foundation**

1560 Wilson Boulevard, Suite 1250

Arlington, VA 22209 (703) 527-6223 (703) 527-7747 (fax)

www.chemed.org/html-index.html

# CHEMTREC, American Chemistry Council Emergency HAZMAT Information

1300 Wilson Boulevard Arlington, VA 22209 (703) 741-5000 (703) 741-6000 (fax) www.americanchemistry.com

#### Corporate Angel Network, Inc.

Westchester County Airport

One Loop Road

White Plains, NY 10604-1215

(914) 328-1313 (914) 328-3938 (fax)

(866) 328-1313 (toll free patient line)

www.corpangelnetwork.org

# Department of Homeland Security/FEMA

Homeland Security Presidential Directive/HSPD-5, Subject: Management of Domestic Incidents

Homeland Security Presidential Directive/HSPD-7, Subject: Critical Infrastructure Identification, Prioritization, and Protection Homeland Security Presidential Directive/HSPD-8, Subject: National Preparedness

Homeland Security Presidential Directive/HSPD-12, Subject: Policy for a Common Identification Standard for Federal Employees and Contractors

National Response Plan (NRP)

State and Local Guide, Guide for All-Hazards Emergency Operations Planning (SLG 101), 1996

Capability Assessment for Readiness (CAR)

Disaster Planning Guide for Business and Industry, 1983 NRT-1, Hazardous Materials Emergency Planning Guide, National Response Team, 1987

www.fema.gov

# Disastercom

Disaster Preparedness and Emergency Response Association (DERA)

P.O. Box 797

Longmont, CO 80502 (303) 809-4412

www.disasters.org/dera/dera.htm

#### **Doctors for Disaster Preparedness**

1601 N Tucson Boulevard, #9

Tucson, AZ 85716 (520) 325-2680 www.oism.org/ddp

#### **DRI** International

201 Park Washington Court Falls Church, VA 22046-4527 (703) 538-1792 (703) 241-5603 (fax) www.drii.org

# The Emergency Information Infrastructure Partnership Forum

www.emforum.org

# **Emergency Nursing World, Internet Site, Bioterrorism Resources**

http://enw.org/Bioterrorism.htm

### **Employee Assistance Society of North America**

230 E Ohio Street, Suite 400 Chicago, IL 60611-3265 (312) 644-0828 (312) 644-8557 (fax) www.easna.org

# Federal Emergency Management Agency (FEMA)

State and Local Guide, Guide for All-Hazards Emergency Operations Planning (SLG 101), 1996

National Response Plan (NRP)

Capability Assessment for Readiness (CAR)

Disaster Planning Guide for Business and Industry, 1993 NRT-1, Hazardous Materials Emergency Planning Guide, National Response Team, 1987

www.fema.gov

# Humanitarian Resource Institute Community and Family Preparedness Network

Humanitarian Resource Institute Western U.S.: (775) 884-4680 P.O. Box 21372 Carson City, NV 89721 Eastern U.S.: (203) 668-0282 167 Cherry Street, # 260 Milford, CT 06460

www.humanitarian.net

# **International Association of Emergency Managers (IAEM)**

American Society of Professional Emergency Planners (ASPEP)

201 Park Washington Court Falls Church, VA 22046-4527 (703) 538-1795 (703) 241-5603 (fax) www.iaem.com

#### International Center for Enterprise Preparedness (InterCEP)

New York University 113 University Place, 9th Floor

New York, NY 10003

(212) 998-2000 (212) 995-4614 (fax) www.nyu.edu/intercep

**International Fire Safety Training Association** 

930 N Willis

Stillwater, OK 74078 (405) 744-5723 (405) 744-8204 (fax)

www.ifsta.org

**International Society of Fire Service Instructors** 

2425 Highway 49 East Pleasant View, TN 37146 (800) 435-0005 (615) 746-1170

www.isfsi.org

Metropolitan Washington Council of Governments (MWCOG)

Regional Emergency Coordination Plan 777 North Capitol Street, NE, Suite 300

Washington, DC 20002-4239

(202) 962-3200 (202) 962-3201 (fax) www.mwcog.org

National Center for Post-Traumatic Stress Disorder

(802) 296-6300

www.ncptsd.org/index.html

National Emergency Management Association (NEMA)

c/o Council of State Governments

P.O. Box 11910 Lexington, KY 40578 (859) 244-8000 (859) 244-8239 (fax)

www.nemaweb.org/index.cfm

National Fire Protection Association (NFPA)

1 Batterymarch Park Quincy, MA 02169-7471

(617) 770-3000 or (800) 344-3555

(617) 770-0700 (fax)

www.nfpa.org/catalog/home/index.asp

National Governor's Association Center for Best Practices, Emergency Management Site

Hall of States 444 N Capitol Street Washington, DC 20001-1512 (202) 624-5300

 $www.nga.org/center/topics/1,\!1188,\!C\_CENTER\_$ 

ISSUE%5ED\_854,00.html

**National Institute for Chemical Studies** 

2300 MacCorkle Avenue SE Charleston, WV 25304 (304) 346-6264 (304) 346-6349 (fax) www.nicsinfo.org

National Voluntary Organizations Active in Disaster (NVOAD)

14253 Ballinger Terrace Burtonsville, MD 20866 (301) 890-2119 (253) 541-4915 (fax) www.nvoad.org

Natural Hazards Center, University of Colorado at Boulder

University of Colorado

482 UCB

Boulder, CO 80309-0482

(303) 492-6818 (303) 492-2151 (fax)

www.colorado.edu/hazards/index.html

**NBC Industry Group** 

P.O. Box 2781

Springfield, VA 22152 www.nbcindustrygroup.com

New England Disaster Recovery Information Exchange (NEDRIX)

McCormack P.O. Box 155 Boston, MA 02101-0155 (781) 485-0279

(617) 385-1616 (fax) www.nedrix.com

People Availability

www.availability.com

Public Entity Risk Institute 11350 Random Hills Road, Suite #210

Fairfax, VA 22030 (703) 352-1846 (703) 352-6339 (fax) www.riskinstitute.org

U.S. Nuclear Regulatory Commission

Office of Public Affairs (OPA) Washington, DC 20555

(800) 368-5642 or local (301) 415-8200

www.nrc.gov

NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants

C.2.1 States, Territories, and Insular Areas — Offices of Emergency Management Contact Lists.

C.2.1.1 States.

Alabama

**Emergency Management Agency** 

5898 County Road 41, P.O. Drawer 2160

Clanton, AL 35046-2160 (205) 280-2200 (205) 280-2410 (fax)

www.aema.state.al.us

Alaska

Division of Homeland Security & Emergency Management

Military and Veterans Affairs Department

P.O. Box 5750

Fort Richardson (Anchorage), AK 99505-5750

(907) 428-7000 (907) 428-7009 (fax) www.ak-prepared.com



ANNEX C 1600–37

#### Arizona

#### Arizona Division of Emergency Management

**Emergency and Military Affairs Department** 

5636 E McDowell Road Phoenix, AZ 85008

(602) 244-0504 or (800) 411-2336

(602) 231-6356 (fax) www.dem.state.az.us

#### Arkansas

# **Arkansas Department of Emergency Management**

P.O. Box 758

Conway, AR 72033-7058 (501) 730-9750 (501) 730-9754 (fax) www.adem.state.ar.us

#### California

# Governor's Office of Emergency Services

P.O. Box 419047

Rancho Cordova, CA 95741-9047

(916) 845-8527 (916) 845-8505 (fax) www.oes.ca.gov

#### Colorado

### Colorado Division of Emergency Management

9195 East Mineral Avenue, Suite 200

Centennial, CO 80112 (720) 852-6600 (720) 852-6750(fax) www.dola.state.co.us/eom

#### **Connecticut Office of Emergency Management**

#### **Department of Public Safety**

360 Broad Street Hartford, CT 06105 (860) 566-3180 (860) 247-0664 (fax)

www.ct.gov/oem/site/default.asp

### Delaware

# **Emergency Management Agency**

165 Brick Store Landing Road

Smyrna, DE 19977

(302) 659-DEMA(3362) or (877) SAY-DEMA

(302) 659-6855 (fax) www.state.de.us/dema

#### **District of Columbia**

#### **Emergency Management Agency**

2000 14th Street, NW, 8th Floor

Washington, DC 20009 (202) 727-6161

www.dcema.dc.gov/main.shtm

#### Florida

# **Division of Emergency Management**

2555 Shumard Oak Boulevard Tallahassee, FL 32399-2100

(850) 413-9900 (850) 488-7842 (fax) www.floridadisaster.org

#### Georgia

#### **Emergency Management Agency, Southeast**

P.O. Box 18055

935 East Confederate Avenue, SE

Atlanta, GA 30316-0055

(404) 635-7000

(404) 635-7205 (fax)

www.state.ga.us/GEMA

#### Hawaii

#### **State Civil Defense**

3949 Diamond Head Road Honolulu, HI 96816-4495

(808) 733-4300 (808) 733-4287 (fax) www.scd.state.hi.us

#### Idaho

#### Bureau of Disaster Services/Military Division

4040 Guard Street, Building 600

Boise, ID 83705-5004 (208) 334-3460 (208) 334-2322 (fax) www.state.id.us/bds

#### Illinois

#### **Emergency Management Agency**

110 E Adams Street Springfield, IL 62701-1109 (217) 782-2700

(217) 782-2700 (217) 782-2589 (fax) www.state.il.us/iema

#### Indiana

# **Department of Homeland Security**

302 W Washington Street, Room E-208

Indianapolis, IN 46204 (317) 232-3830 (317) 232-3895 (fax)

www.in.gov/sema/emerg\_mgt

#### Iowa

# **Emergency Management Division**

Hoover State Office Building, Level A, Room 29

Des Moines, IA 50319-0113

(515) 281-3231 (515) 281-7539 (fax)

www.state.ia.us/government/dpd/emd

#### Kansas

#### **Division of Emergency Management**

2800 SW Topeka Boulevard Topeka, KS 66611-1287 (785) 274-1000 (785) 274-1426 (fax) www.accesskansas.org/kdem

Certification: Kansas Certified Emergency Manager Through

Kansas Emergency Management Association

#### Kentucky

# **Division of Emergency Management**

Boone Center, 100 Minuteman Parkway

Frankfort, KY 40601

(800) 255-2587 or (502) 564-7815

(502) 607-1614 (fax) www.kyem.dma.state.ky.us

#### Louisiana

#### Office of Emergency Preparedness

7667 Independence Boulevard

Baton Rouge, LA 70806 (225) 925-7500 (225) 925-7501 (fax)

www.loep.state.la.us

#### Maine

# **Emergency Management Agency**

72 State House Station Augusta, ME 04333-0072 (207) 626-4503

(207) 626-4299 (fax) www.state.me.us.mema

#### Maryland

#### **Emergency Management Agency**

Camp Fretterd Military Reservation

5401 Rue Saint Lo Drive Reisterstown, MD 21136

(410) 517-3600 or (877) MEMA-USA

(410) 517-3610 (fax) www.mema.state.md.us

#### Massachusetts

#### **Emergency Management Agency**

400 Worcester Road

Framingham, MA 01702-5399 (508) 820-2000 or (800) 982-6846

(508) 820-2030 (fax) www.state.ma.us/mema

### Michigan

#### Michigan State Police

**Emergency Management Division** 

4000 Collins Road Lansing, MI 48909 (517) 336-6198 (517) 333-4987 (fax) www.michigan.gov/msp

# Minnesota

# Division of Homeland Security and Emergency Management

444 Cedar Street, Suite 223 St. Paul, MN 55101-6223 (651) 201-7400 (651) 296-0459 (fax)

# Mississippi

### **Emergency Management Agency**

P.O. Box 4501 1410 Riverside Drive Jackson, MS 39296-4501

www.hsem.state.mn.us

(601) 352-9100 or (800) 222-MEMA(6362)

(601) 352-8314 (fax) www.msema.org/index.htm

#### Missouri

#### State Emergency Management Agency

P.O. Box 116 2302 Militia Drive Jefferson City, MO 65102 (573) 526-9101 (573) 634-7966 (fax)

www.sema.state.mo.us/semapage.htm

#### Montana

#### **Disaster and Emergency Services Division**

P.O. Box 4789 1900 Williams Street Helena, MT 59604-4789 (406) 841-3911 (406) 841-3965 (fax) www.state.mt.us

#### Nebraska

#### **Emergency Management Agency**

1300 Military Road Lincoln, NE 68508-1090 (402) 471-7421 or (877) 297-2368 (402) 471-7433 (fax) www.nebema.org

#### Nevada

#### **Division of Emergency Management**

2525 S Carson Street, Capital Complex

Carson City, NV 89701 (702) 687-4240 (702) 687-6788 (fax) www.dem.state.nv.us

# New Hampshire

#### Office of Emergency Management

State Office Park South 107 Pleasant Street Concord, NH 03301-3809 Mailing address: 10 Hazen Drive Concord, NH 03305 (603) 271-2231 or (800) 852-3792 (603) 225-7341 (fax)

# New Jersey

#### **New Jersey State Police**

www.nhoem.state.nh.us

Office of Emergency Management P.O. Box 7068, Old River Road West Trenton, NJ 08268-0068 (609) 882-2000

(609) 538-0345 (fax) www.state.nj.us/njoem

#### **New Mexico**

# State of New Mexico, Emergency Management

Emergency Management Center 13 Bataan Boulevard P.O. Box 1628

Santa Fe, NM 87504-1628



ANNEX C 1600–39

(505) 476-9600 (505) 476-9650 (fax)

www.dps.nm.org/emergency

#### **New York**

# Contingency Planning Exchange, Inc.

551 Fifth Avenue, Suite 3025 New York, NY 10176-3099

(212) 983-8644 (212) 687-4016 (fax) www.cpeworld.org

# **New York State Emergency Management Office**

1220 Washington Avenue Building 22, Suite 101 Albany, NY 12226-2251 (518) 457-2222 (518) 457-995 (fax) www.nysemo.state.ny.us

#### **North Carolina**

# **Division of Emergency Management**

116 W Jones Street Raleigh, NC 27603-1335 (919) 733-3867 (919) 733-7554 (fax) www.ncem.org

#### North Dakota

P.O. Box 5511

#### **Division of Emergency Management**

Bismarck, ND 58506-5511 (701) 328-8100 (701) 328-8181 (fax) www.state.nd.us/dem

### **Northeast States Emergency Consortium**

419 Main Street, Suite 5 Wakefield, MA 01880 (781) 224-9876 (781) 224-4350 (fax) www.serve.com/NESEC

# Ohio

#### **Ohio Department of Public Safety**

Emergency Management Agency 2855 W Dublin Granville Road Columbus, OH 43235-2206

(614) 889-7150 (614) 889-7183 (fax)

www.state.oh.us/odps/division/ema/index.htm

# Oklahoma

# Department of Civil Emergency Management

2401 North Lincoln Blvd, Suite C51 Oklahoma City, OK 73152-3365 (405) 521-2481 (405) 521-4053 (fax)

#### Oregon

# Office of Emergency Management

3225 State Street Salem, OR 97310

www.odcem.state.ok.us

(503) 378-2911 (503) 588-1378 (fax) www.osp.state.or.us/oem

#### Pennsylvania

#### **Emergency Management Agency**

P.O. Box 3321 Harrisburg, PA 17105-3321 (717) 651-2001

(717) 651-2040 (fax) www.pema.state.pa.us

#### Puerto Rico

# **State Civil Defense**

P.O. Box 5127 San Juan, PR 00906 (809) 724-0124

www.disaster-management.net/puerto\_di.htm

#### **Rhode Island**

# **Emergency Management Agency**

645 New London Avenue Cranston, RI 02920 (401) 946-9996 (401) 944-1891 (fax) www.state.ri.us/riema

#### **South Carolina**

# South Carolina Emergency Preparedness Division

1100 Fish Hatchery Road West Columbia, SC 29172 (803) 737-8500 (803) 734-8062 (fax)

# South Dakota

www.state.sc.us/emd

#### **Division of Emergency Management**

500 East Capitol Avenue Pierre, SD 57501-5070 (605) 773-3231 (605) 773-3580 (fax)

www.state.sd.us/military/sddem.htm

#### Tennessee

#### **Emergency Management Agency**

3041 Sidco Drive P.O. Box 45102 Nashville, TN 37204 (615) 741-4332 (615) 242-9635 (fax) www.tnema.org

# Texas

# **Division of Emergency Management**

Department of Public Safety

P.O. Box 4087

5805 N Lamar Boulevard Austin, TX 78752-4422

(512) 424-2138, (512) 424-2000 (non-duty hours)

(512) 424-2444 (fax) www.txdps.state.tx.us/dem

#### Utah

# **Division of Comprehensive Emergency Management**

Room 1110, State Office Building

Salt Lake City, UT 84114

(801) 538-3400

(801) 538-3770 (fax)

www.cem.state.ut.us

#### Vermont

#### **Division of Emergency Management**

103 S Main Street

Waterbury, VT 05671-2101

(802) 244-8721 or (800) 347-0488

(802) 244-8655 (fax)

www.dps.state.vt.us/vem

#### Virginia

#### **Department of Emergency Services**

10501 Trade Court

Richmond, VA 23236

(804) 897-6510

(804) 897-6506 (fax)

www.vdem.state.va.us

#### Washington

# **Washington State Military Department**

**Emergency Management Division** 

MS: TA-20, Building 20

Camp Murray, WA 98430-5122

(253) 512-7000 or (800) 562-6108

(253) 512-7207 (fax)

www.emd.wa.gov

#### West Virginia

#### Office of Emergency Services

Office of Emergency Services

Room EB-80, State Capitol

Charleston, WV 25305-0360

(304) 558-5380

(304) 344-4538 (fax)

www.state.wv.us/wvoes

#### Wisconsin

# **Division of Emergency Management**

2400 Wright Street

Madison, WI 53704

(608) 242-3232

(608) 242-3247 (fax)

www.emergencymanagement.wi.gov

#### Wyoming

#### **Emergency Management Agency**

5500 Bishop Road

Cheyenne, WY 82009-3320

(307) 777-4900

(307) 635-6017 (fax)

www.wyohomelandsecurity.state.wy.us

# C.2.1.2 Territories and Insular Areas.

# **Pacific Rim Caucus**

#### **American Samoa**

#### **Territorial Emergency Management Coordinating Office**

**TEMCO** Manager

Department of Public Safety

P.O. Box 086

Pago Pago, AS 96799

(684) 633-2331

(684) 633-2300 (fax)

#### Guam

#### Division of Civil Defense

### **Emergency Services Office**

P.O. Box 2877

Agana, GU 96910

(671) 475-9600

(671) 477-3727 (fax)

www.ns.gov.gu

#### Northern Mariana Islands

# **Emergency Management Office**

#### Office of the Governor

Capitol Hill

P.O. Box 10007

Saipan, MP 96950

(670) 322-9274 or (670) 322-8001

(670) 322-7743 (fax)

www.cnmiemo.org

#### Marshall Islands

#### **Civil Defense Coordinator**

# Republic of the Marshall Islands

P.O. Box 15

Majuro, RMI 96960

011-692-625-3234 / 3445

011-692-625-3649 (fax)

#### Micronesia

# Special Assistant to the President for Disaster Coordination

Disaster Control

Office of the President

P.O. Box P.S. 490

Kolonia, Pohnpel, FSM 96941

011-691-320-2822

011-691-320-2785 (fax)

# Republic of Palau

**NEMO Coordinator** 

Office of the Vice President

P.O. Box 100

Koror, Republic of Palau, 96940

011-680-488-2422

011-680-488-3312 (fax)

### Virgin Islands

# **Territorial Emergency Management Agency**

102 Estate Hermon Hill

Christiansted

St. Croix, VI 00820

(809) 773-2244

(809) 778-8980 (fax)

www.usvi.org/vitema

C.3 Risk Assessment. Systems Safety Analysis Handbook: A Source Book for Safety Practitioners, 2nd ed., System Safety Society, Unionville, VA, 1997.

www.system-safety.org



ANNEX D 1600-41

#### Annex D **Emergency Management Accreditation** and Certification Programs

This annex is not a part of the requirements of this NFPA document but is included for informational purposes only.

D.1 The following lists of certification and accreditation programs have been identified for informational purposes only and are not intended to be all-inclusive. Inclusion on the list does not constitute an endorsement by NFPA or the Technical Committee on Emergency Management and Business Continuity.

#### D.1.1 Accreditation — Canada.

#### **Canadian Emergency Preparedness College**

Public Safety and Emergency Preparedness Canada

1495 Heron Road

Ottawa, ON

Canada

(613) 949-5050

(613) 998-9589 (fax)

www.psepc.gc.ca/prg/em/cepc/cepc\_index-en.asp

#### **Emergency Management Ontario**

Ministry of Community Safety and Correctional Services

25 Grosvenor Street, 18th Floor

Toronto, ON M7A 1Y6

Canada

(416) 326-5010

www.mpss.jus.gov.on.ca/english/pub\_security/emo/

EMO\_training.html

#### Justice Institute of British Columbia

715 McBride Boulevard

New Westminster, BC V3L 5T4

Canada

(604) 525-5422

(604) 528-5518 (fax)

www.jibc.bc.ca/emergency/default.htm

#### York University

**Emergency Management Certificate Program** 

4700 Keele Street

Toronto, ON M3J 1P3

Canada

(416) 736-2100

(416) 736-5536 (fax)

www.yorku.ca/web/futurestudents/programs/

template.asp?id=618

#### D.1.2 Accreditation — United States.

# **Emergency Management Accreditation Program (EMAP)**

P.O. Box 11910

Lexington, KY 40578

(859) 244-8210

(859) 244-8239 (fax)

www.emaponline.org/index.cfm

EMAP is a voluntary accreditation process based on a national standard (NFPA 1600). A nine-member independent commission oversees the accreditation program. EMAP takes the CAR and NFPA 1600 to the next level by adding requirements for documentation, on-site assessment, committee review, and periodic review.

#### D.2 National and International Certifications.

#### D.2.1 Canada.

#### **DRI Canada**

2175 Sheppard Avenue E, Suite 310

Willowdale, ON M2J 1W8

Canada

(416) 491-5335

(888) 728-DRIC (3742)

(416) 491-1670 (fax)

www.drii.ca

DRI Canada is a Canadian not-for-profit corporation established in 1996 to create a base of common disaster recovery planning knowledge through education, assistance, and the development of a resource base; to certify qualified individuals; and to promote the credibility and professionalism of certified professionals. DRI Canada is the only affiliate of DRI International and provides DRI International education and certification programs in Canada.

#### D.2.2 United Kingdom.

#### **Business Continuity Institute (BCI)**

10 Southview Park

Marsack Street

Caversham

RG4 5AF

United Kingdom

+44 (0) 870 603 8783 or +44 118 947 8215

+44 (0) 870 603 8761 (fax)

www.thebci.org

The Business Continuity Institute (BCI) was established in 1994 to provide opportunities to obtain guidance and support from fellow professionals. The Institute provides an internationally recognized status in relation to the individual's experience as a continuity practitioner. The BCI has over 2000 members in more than 50 countries.

The wider role of the BCI is to promote the highest standards of professional competence and commercial ethics in the provision and maintenance of business continuity planning and services.

The main method of entry into the BCI is by certification through a structured interview. The certification process is based on a set of 10 certification standards for business continuity practitioners. These standards are reviewed annually by the BCI to ensure that they remain current.

# D.2.3 United States.

### **DRI** International

201 Park Washington Court

Falls Church, VA 22046-4527

(703) 538-1792

(703) 241-5603 (fax)

www.drii.org

DRI International (DRII) was originally formed in 1988 as the Disaster Recovery Institute in St. Louis, MO. A group of professionals from the industry and from Washington University in St. Louis foresaw the need for comprehensive education in business continuity. Alliances with academia helped shape early research and curriculum development.

The group understood that both individual certification and the establishment of a common body of knowledge (standards) could only enhance industry professionalism. As a result, the new nonprofit organization established the following goals:

- To promote a base of common knowledge for the business continuity planning/disaster recovery industry through education, assistance, and publication of the standard resource base
- (2) To certify qualified individuals in the discipline
- (3) To promote the credibility and professionalism of certified individuals

DRII sets standards that provide the minimum acceptable level of measurable knowledge, thus providing a baseline for levels of knowledge and capabilities.

Accordingly, in 1997, DRII, together with BCI, published the Professional Practices for Business Continuity Planners as the industry's international standard.

# Certified Emergency Manager (CEM®) Associate Emergency Manager (AEM) International Association of Emergency Managers (IAEM—Formerly NCCEM)

201 Park Washington Court Falls Church, VA 22046-4527

(703) 538-1795

(703) 241-5603 (fax)

www.iaem.com/certification.html

CEM® certification is a peer review process administered through the International Association of Emergency Managers (IAEM). It is not necessary to be an IAEM member to be certified, although IAEM membership does offer a number of benefits that can assist individuals through the certification process. Certification is maintained in five-year cycles. The CEM Program is served by a CEM Commission, which is composed of emergency management professionals, including representatives from allied fields, educations, the military, and private industry. Development of the CEM Program was supported by the Federal Emergency Management Agency (FEMA), the National Emergency Management Association (NEMA), and a host of allied organizations.

#### D.3 United States — State Certifications.

# Colorado

# Colorado Emergency Management Certification Program

15075 South Golden Road Golden, CO 80401-3979 (303) 273-1622 (303) 273-1795 (fax) www.dola.state.co.us/oem

The Colorado certification program is designed to provide a method of professional certification for emergency management personnel in the state of Colorado. This volunteer program seeks to establish a clearly visible set of career goals for emergency management professionals, provide public officials and chief executive officers with defined standards in selecting personnel to fill emergency management positions, promote continued training and education of emergency management personnel, and increase the visibility and professional scope of emergency management personnel.

# Florida

#### **FEPA Certification Program**

3015 Shannon Lakes North, Suite 303 Tallahassee, FL 32309 (850) 906-0779 (850) 893-1845 (fax) www.fepa.org The Florida Emergency Preparedness Association (FEPA) certification plan was approved in 1998, and offers the following certifications: Florida Associate Emergency Manager (FAEM), Florida Professional Emergency Manager (FPEM), and Florida Emergency Management Volunteer (FEMV).

In addition, the CEM certification is recognized for reciprocity.

#### Indiana

#### **Emergency Management Agency (Indiana)**

302 W Washington Street, Room E-208

Indianapolis, IN 46204

(317) 232-3830

(317) 232-3895 (fax)

www.in.gov/sema/emerg\_mgt

The State of Indiana and the Indiana Public Safety Training Institute certify emergency management personnel through a Professional Emergency Manager (PEM) program. The program covers three phases of recognition (Basic Level, Senior Level, and Master Level), which must be completed in order.

To receive a certificate for each level, participants must pass a 100-question comprehensive written examination with a minimum of 75 correct answers. In order to maintain the PEM designation, each participant is required to complete 24 hours annually of professional development/continuing education training. The present curriculum encompasses 172 hours of training at the Basic Level, 188 hours of training at the Senior Level, and an additional 158 hours of training at the Master Level.

Additional information may be obtained by contacting the PEM Coordinator, Amy Lindsey, at (317) 234-2539 or at alindsey@sema.state.in.us.

#### Kansas

# Kansas Emergency Manager Program

#### Kansas Emergency Management Association

Reno County Emergency Management 206 W First Anenue

Hutchinson, KS 67501

(620) 694-2975

www.kema.org/KCEM

For information contact:

Janice Davidson, KCEM

Ottawa County Emergency Management

307 N Concord, Suite 170

Minneapolis, KS 67467

785-392-3600

#### Michigan

# Michigan Professional Emergency Manager (PEM) Certification

#### Michigan State Police

**Emergency Management Division** 

4000 Collins Road

Lansing, MI 48909

(517) 336-6198

(517) 333-4987 (fax)

www.michigan.gov/msp

Emergency management is a discipline that, like any other profession, requires an academic background. The PEM certification program meets this requirement with nearly 240 instructional hours built into the program. The PEM credential has gained acceptance as the single most important development within emergency management in the State of Michigan. The



ANNEX D 1600–43

PEM program has been designed to offer formal academic preparation as well as practical classroom experience to anyone involved in emergency management.

#### Minnesota

# **Emergency Manager Certification Program, Division of Homeland Security and Emergency Management**

State Training Officer 444 Cedar Street, Suite 223 St. Paul, MN 55501-6223 (651) 201-7400 (651) 296-0459 (fax) www.hsem.state.mn.us

#### **Texas**

# Texas Emergency Manager (TEM) Certification Emergency Management Association of Texas

314 Highland Mall Boulevard, Suite 510 Austin, TX 78752 (512) 454-4476 (512) 451-9556 (fax) www.emat-tx.org

The Texas Emergency Manager (TEM®) certification is an indicator of experience, hard work, continuing education, dedication to integrity, and creativity. It is also an assurance that the individual has passed at least a minimum screening of competence. Obtaining certification as a TEM proves that you can effectively accomplish the goals and objectives of comprehensive emergency management in Texas. The TEM certification program is a modification of the International Association of Emergency Managers Certified Emergency Manager (CEM®) program. It is different from the CEM in that the TEM has requirements unique to Texas and does not require a college degree. The Emergency Management Association of Texas (EMAT) Board recognizes that many emergency managers have not had the opportunity to attend college, yet possess the knowledge, skills, and abilities to effectively manage a comprehensive emergency management program. The TEM addresses that situation.

# Virginia

# Virginia Emergency Management Certification Program, Virginia Emergency Management Association (VEMA)

c/o Joe A. Mellender Executive Assistant 11023 Popes Head Road Fairfax, VA 22030 www.vemaweb.org/prodev/cert.htm#read

VEMA Emergency Management Certification Program provides a structured certification program for professional development by support staff, administrative personnel, volunteers, technical specialists, and program managers in local jurisdiction, agency, or state government emergency management programs.

# Wisconsin

# Wisconsin Division of Emergency Management

2400 Wright Street
P.O. Box 7865
Madison, WI 53707-7865
(608) 242-3232
(608) 242-3247 (fax)
www.emergencymanagement.wi.gov

ship with the Wisconsin Emergency Management Association (WEMA), established a voluntary, nonmandatory Emergency Manager Certification program. This program was designed for the dedicated emergency manager who seeks professional status and certification in the field of emergency management. The program encourages emergency managers to enhance their career development, expand their knowledge by completing a specified training curriculum, and successfully finish an examination in order to gain recognition as a Certified Emergency Manager.

Wisconsin Emergency Management (WEM), in partner-

#### D.4 Additional Certifications of Interest.

# American Society for Industrial Security (ASIS)

1625 Prince Street Alexandria, VA 22314-2818 (703) 518-1470 (703) 519-6299 (fax) www.asisonline.org

ASIS International is the largest international organization for professionals responsible for security. These professionals are becoming involved with ASIS International to understand the constant changes in security issues and solutions. ASIS International is dedicated to increasing the effectiveness and productivity of security practices by developing educational programs and materials that address broad security concerns.

### Certified Floodplain Manager Association of Floodplain Managers, Inc. FEMA

500 C Street, SW Washington, DC 20472 (202) 566-1600 www.fema.gov

# Certified Safety Professional (CSP) Associate Safety Professional (ASP) Board of Certified Safety Professionals

208 Burwash Avenue Savoy, IL 61874 (217) 359-9263 (217) 359-0055 (fax)

Certified Safety Professional (CSP) is a title or designation awarded by the Board of Certified Safety Professionals (BCSP) to individuals who meet the standards for a safety professional established by BCSP. A safety professional is a person engaged in the prevention of accidents, incidents, and events that harm people, property, or the environment. Safety professionals use qualitative and quantitative analysis of simple and complex products, systems, operations, and activities to identify hazards; evaluate the hazards to identify what events can occur and the likelihood of occurrence, severity of results, risk (a combination of probability and severity), and cost; and identify what controls are appropriate and their cost and effectiveness. Safety professionals make recommendations to managers, designers, employers, government agencies, and others. Safety professionals may manage and implement controls. Controls may involve administrative controls (such as plans, policies, procedures, training, etc.) and engineering controls (such as safety features and systems, fail-safe features, barriers, and other forms of protection).

#### **International Facility Management Association (IFMA)**

1 E Greenway Plaza, Suite 1100 Houston, TX 77046-0194 (713) 623-4362 (713) 623-6124 (fax)

www.ifma.org

IFMA is committed to meeting the educational needs of all workplace professionals through the most convenient and cost effective delivery methods possible. IFMA's self-study courses provide the workplace professional with opportunities to earn continuing education units and certification maintenance points.

# Emergency Number Professional (ENP) Certification National Emergency Number Association (NENA)

422 Beecher Road Columbus, OH 43230 (800) 332-3911 or (614) 741-2080 (614) 933-0911 (fax) www.nena.org/certification

# Occupational Health and Safety Technologist (OHST) Council on Certification of Health, Environmental and Safety Technologists

208 Burwash Avenue Savoy, IL 61874-9571 (217) 359-2686 (217) 359-0055 (fax) www.cchest.org

This program is intended for persons who work in occupational health and safety. Typical individuals are involved in safety inspections, industrial hygiene monitoring, safety and health training, investigating and maintaining records and similar functions. The job duties may be full time or part time. Qualifications are less stringent than those of the Certified Safety Professional (CSP) operated by the Board of Certified Safety Professionals or the Certified Industrial Hygiene (CIH) operated by the American Board of Industrial Hygiene. The OHST certification has achieved recognition in several state regulations related to safety, workers' compensation, and other areas.

#### Annex E Incident Management System (IMS)

This annex is not a part of the requirements of this NFPA document but is included for informational purposes only.

- **E.1 Incident Command System Resources.** The incident command system (ICS) is based on proven management characteristics. Each management characteristic contributes to the strength and efficiency of the overall system.
- **E.1.1 Common Terminology.** ICS establishes common terminology that allows diverse incident management and support entities to work together across a wide variety of incident management functions and hazard scenarios. This common terminology covers the following:
- Organizational Functions. Major functions and functional units with domestic incident management responsibilities are named, and defined terminology for the organizational elements involved is standard and consistent.

- (2) Resource Descriptions. Major resources including personnel, facilities, and major equipment and supply items used to support incident management activities are given common names and are "typed" with respect to their capabilities to help avoid confusion and to enhance interoperability. The process for accomplishing this task is specified in Chapter IV of NIMS.
- (3) Incident Facilities. Common terminology is used to designate the facilities in the vicinity of the incident area that will be used in the course of incident management activities.
  - (a) Modular Organization. The incident command organizational structure develops in a top-down, modular fashion that is based on the size and complexity of the incident, as well as the specifics of the hazard environment created by the incident. When needed, separate functional elements can be established, each of which can be further subdivided to enhance external organizational management and external coordination. Responsibility for the establishment and expansion of the ICS modular organization ultimately rests with the Incident Commander (IC), who bases these decisions on the requirements of the situation. As incident complexity increases, the organization expands from the top down as functional responsibilities are delegated and the number of management positions expand to adequately address the requirement of the incident.
  - (b) Management by Objectives. Management by objectives represents an approach that is communicated throughout the entire ICS organization. This approach includes establishing overarching objectives for the following:
    - Developing and issuing assignments, plans, procedures, and protocols
    - ii. Establishing specific, measurable objectives for various incident management functional activities, and directing efforts to attain them, in support of defined strategic objectives
    - iii. Documenting results to measure performance and facilitate corrective action
  - (c) Reliance on an Incident Action Plan. Incident action plans (IAPs) provide a coherent means of communicating the overall incident objectives in the contexts of both operational and support activities.
  - (d) Manageable Span of Control. Span of control is key to effective and efficient incident management. Within ICS, the span of control of any individual with incident management supervisory responsibility should range from three to seven subordinates. The type of incident, nature of the task, hazards and safety factors, and distances between personnel and resources all influence span-of-control considerations.
  - (e) Predesignated Incident Locations and Facilities. Various types of operational locations and support facilities are established in the vicinity of an incident to accomplish a variety of purposes, such as decontamination, donated goods processing, mass care, and evacuation. The IC will direct the identification and location of facilities based on the requirements of the situation at hand. Typical predesignated facilities include incident command posts, bases, camps, staging areas, mass casualty triage areas, and others, as required.
  - (f) Comprehensive Resource Management. Maintaining an accurate and up-to-date picture of resource utilization is a critical component of domestic incident



ANNEX E 1600–45

- management. Resource management includes processes for categorizing, ordering, dispatching, tracking, and recovering resources. It also includes processes for reimbursement for resources, as appropriate. Resources are defined as personnel, teams, equipment, supplies, and facilities available or potentially available for assignment or allocation in support of incident management and emergency response activities.
- (g) Integrated Communications. Incident communications are facilitated through the development and use of a common communications plan and interoperable communications processes and architectures. This integrated approach links the operational and support units of the various agencies involved and is necessary to maintain communications connectivity and discipline and enable common situational awareness and interaction. Preparedness planning has to address the equipment, systems, and protocols necessary to achieve integrated voice and data incident management communications.
- (h) Establishment and Transfer of Command. The command function has to be clearly established from the beginning of incident operations. The agency with primary jurisdictional authority over the incident designates the individual at the scene responsible for establishing command. When command is transferred, the process must include a briefing that captures all essential information for continuing safe and effective operations.
- (i) Chain of Command and Unity of Command. Chain of command refers to the orderly line of authority within the ranks of the incident management organization. Unity of command means that every individual has a designated supervisor to whom they report at the scene of the incident. These principles clarify reporting relationships and eliminate the confusion caused by multiple, conflicting directives. Incident managers at all levels have to be able to control the actions of all personnel under their supervision.
- (j) Unified Command (UC). In incidents involving multiple jurisdictions, a single jurisdiction with multiagency involvement, or multiple jurisdictions with multi-agency involvement, unified command allows agencies with different legal, geographic, and functional authorities and responsibilities to work together effectively without affecting individual agency authority, responsibility, or accountability.
- (k) Accountability. Effective accountability at all jurisdictional levels and within individual functional areas during incident operations is essential. To that end, the following principles have to be adhered to:
  - Check-In. All responders, regardless of agency affiliation, have to report in to receive an assignment in accordance with the procedures established by the IC.
  - Incident Action Plan (IAP). Response operations have to be directed and coordinated as outlined in the IAP.
  - Unity of Command. Each individual involved in incident operations will be assigned to only one supervisor.

- iv. **Span of Control.** Supervisors have to be able to adequately supervise and control their subordinates, as well as communicate with and manage all resources under their supervision.
- Resource Tracking. Supervisors have to record and report resource status changes as they occur.
- (l) **Deployment.** Personnel and equipment should respond only when requested or when dispatched by an appropriate authority.
- (m) Information and Intelligence Management. The incident management organization has to establish a process for gathering, sharing, and managing incident-related information and intelligence.

# **E.1.2 The Command Function.** The command function can be conducted in one of the two following general ways:

- (1) Single Command IC. When an incident occurs within a single jurisdiction and there is no jurisdictional or functional agency overlap, a single IC should be designated with overall incident management responsibility by the appropriate jurisdictional authority. (In some cases in which incident management crosses jurisdictional and/or functional agency boundaries, a single IC can be designated if all parties agree to such an option.) Jurisdictions should consider pre-designating ICs in their preparedness plans. The designated IC will develop the incident objectives on which subsequent incident action planning will be based. The IC will approve the incident action plan (IAP) and all requests pertaining to the ordering and releasing of incident resources.
- (2) Unified Command (UC). UC is an important element in multi-jurisdictional or multi-agency domestic incident management. It provides guidelines to enable agencies with different legal, geographic, and functional responsibilities to coordinate, plan, and interact effectively. As a team effort, UC overcomes much of the inefficiency and duplication of effort that can occur when agencies from different functional and geographic jurisdictions, or agencies at different levels of government, operate without a common system or organizational framework.

All agencies with jurisdictional authority or functional responsibility for any or all aspects of an incident and those able to provide specific resource support participate in the UC structure and contribute to the process of determining overall incident strategies; selecting objectives; ensuring that joint planning for tactical activities is accomplished in accordance with approved incident objectives; ensuring the integration of tactical operations; and approving, committing, and making optimum use of all assigned resources. The exact composition of the UC structure will depend on the location(s) of the incident [i.e., which geographical administrative jurisdiction(s) are involved] and the type of incident [i.e., which functional agencies of the involved jurisdiction(s) are required]. In the case of some multi-jurisdictional incidents, the designation of a single IC can be considered to promote greater unity of effort and efficiency.

# E.1.3 Area Command.

(1) Description. An Area Command is activated only if necessary, depending on the complexity of the incident and incident management span-of-control considerations. An agency administrator or other public official with jurisdictional responsibility for the incident usually makes the

decision to establish an Area Command. An Area Command is established either to oversee the management of multiple incidents that are each being handled by a separate ICS organization or to oversee the management of a very large incident that involves multiple ICS organizations, such as would likely be the case for incidents that are not site specific, geographically dispersed, or evolve over long periods of time (a bioterrorism event). In this sense, acts of biological, chemical, radiological, and/or nuclear terrorism represent particular challenges for the traditional ICS structure and will require extraordinary coordination between federal, state, local, tribal, private-sector, and nongovernmental organizations.

Area Command is also used when there are a number of incidents in the same area and of the same type, such as two or more hazardous material (HAZMAT) or oil spills, and fires. These represent incidents that can compete for the same resources. When incidents do not have similar resource demands, they are usually handled separately and are coordinated through an Emergency Operations Center (EOC). If the incidents under the authority of the Area Command are multi-jurisdictional, then a Unified Area Command should be established. This allows each jurisdiction to have representation in the command structure. Area Command should not be confused with the functions performed by an EOC. An Area Command oversees management of the incident(s), while an EOC coordinates support functions and provides resources support.

- (2) **Responsibilities.** For incidents under its authority, an Area Command has the following responsibilities:
  - (a) Set overall incident-related priorities
  - (b) Allocate critical resources according to priorities
  - (c) Ensure that incidents are properly managed and that incident management objectives are met and do not conflict with each other or with agency policy
  - (d) Identify critical resource needs and report them to EOCs and/or multi-agency
  - (e) Coordinate entities
  - (f) Ensure that short-term emergency recovery is coordinated to assist in the transition to full recovery operations

Where necessary, equivalent titles and functions should be cross-referenced.

**E.2 Incident Management System Resources.** Incident management systems have numerous versions throughout the world. The versions sometimes differ by agency, state, province, or government, and in the public and private sectors. The following list of resources is not intended to be inclusive or to signify endorsement or approval.

# **E.2.1 Incident Management Publications.**

#### E.2.1.1 Canada. (Reserved)

### E.2.1.2 United States.

National Fire Protection Association (NFPA)

**NFPA Publications** 1 Batterymarch Park

O---- MA 09160 747

Quincy, MA 02169-7471

NFPA 1561, Standard on Emergency Services Incident Management System, 2005 edition.

# Oklahoma State University

#### **Fire Protection Publications**

Headquarters for the International Fire Service Training Association (IFSTA)

930 N Willis

Stillwater, OK 74078

(800) 654-4055

(405) 744-8204 (fax)

Model Procedures for Incident Management Systems for Structural Firefighting

Model Procedures for Incident Management Systems for EMS

Model Procedures for Incident Management Systems for Hi-Rise Firefighting

Model Procedures for Incident Management Systems for Wildland Firefighting

Model Procedures for Incident Management Systems for HazMat Model Procedures for Incident Management Systems for USAR

#### **United States Government**

# Occupational Safety and Health Administration (www.osha.gov)

29 CFR 1910.38 Employee Emergency Plans

29 CFR 1910.120 Hazardous Waste Operations and Emergency Response

HICS (Hospital Incident Command System)

BCERMS (British Columbia Emergency Response Management System)

www.pep.bc.ca/bcerms/bcerms\_overview-manual.pdf

HSPD-5, Management of Domestic Incidents (Homeland Security Presidential Directive), February 2003

HSPD-7, Critical Infrastructure Identification, Prioritization, and Protection (Homeland Security Presidential Directive), December 2003

HSPD-8, National Preparedness (Homeland Security Presidential Directive), December 2003

HSPD-12, Policy for a Common Identification Standard for Federal Employees and Contractors (Homeland Security Presidential Directive), August 2004

NIMS (National Incident Management System)

NIIMS (National Interagency Incident Management System)

NRP (National Response Plan)

SEMS (Standardized Emergency Management System)

# E.3 Training Resources.

#### E.3.1 Canada.

### **DART Rescue Inc.**

75 King Street South

Box 40061

Waterloo, ON N2J 4V1

Canada

(519) 721-DART

(519) 721-3278

www.dartrescue.com

#### **Echelon Response and Training**

10 Kenmore Avenue, Unit 4

Stoney Creek, ON L8E 5N1

Canada

(905) 388-4444

(905) 643-3106 (fax)

www.echelonresponse.com



ANNEX F 1600–47

# **Emergency Response Management Consulting**

Suite 280, 17010 103 Avenue Edmonton, AB T5S 1K7

Canada

(780) 483-9168 or (800) 718-ERMC (3762)

(780) 444-6167 (fax)

www.ru-ready.com

# **ENFORM, Petroleum Industry Training Service**

Calgary Training Centre 1538 25th Avenue NE Calgary, AB T2E 8Y3

Canada

(403) 250-9606

(403) 250-1289 (fax)

(800)667-5557 (registration line)

www.pits.ca/index.htm

#### **Environmental Accident Protection Incorporated**

4156 Petrolia Street

P.O. Box 929

Petrolia, ON N0N 1R0

Canada

(519) 882-3542

(519) 882-3562 (fax)

www.eap-inc.com/main.html

#### **Fielding Chemical Technologies**

3575 Mavis Road

Mississauga, ON L5C 1T7

Canada

(888) 873-2524 or (905) 279-5122

(905) 279-4130 (fax)

www.fieldchem.com/trainingservices.asp

# **Magellan Engineering**

185 Rideau Street, 3rd Floor

Ottawa, ON K1N 5X8

Canada

(613) 562-9535

(613) 562-9538 (fax)

www.emergencies.ca

# **Professional Emergency Management**

PROEM LTD.

Calgary, AB

Canada

(403) 560-9456

www.proem.com

# Sécurité Publique du Québec Civil Protection Training

Direction des Communications

2525 boul. Laurier, 5th floor

Tour du Saint-Laurent

Québec, QC G1V 2L2

Canada

(418) 644-6826 or (866) 644-6826

(418) 643-3194 (fax)

www.msp.gouv.qc.ca/secivile/secivile\_en.asp?ndn=03&txtSection=formation

#### **Shield Specialized Emergency Services**

2257 Premier Way, # 100 Sherwood Park, AB T8H 2K8

Canada

(780) 416-6082

(780) 416-6084 (fax)

www.shieldspecialized.com

#### **Team-1 Environmental Services**

1650 Upper Ottawa Street Hamilton, ON L8W 3P2

Canada

(905) 383-5550

(905) 574-0492 (fax)

www.team-1.com

**E.3.2 United States.** Various training courses are available in both the public and private sectors to support Incident Management among other emergency management functions identified in this standard. Training sources for courses include, but are not limited to, the following:

The National Emergency Training Center, U.S. Fire Administration, Emmitsburg, MD

Federal, State and Local Emergency Management Agencies State Fire Academies and Schools

National Interagency Fire Coordination Center, Boise, ID

California Specialized Training Institute

DRI International, Falls Church, VA

# Annex F Informational References

- **F.1 Referenced Publications.** The documents or portions thereof listed in this annex are referenced within the informational sections of this code and are not part of the requirements of this document unless also listed in Chapter 2 for other reasons.
- **F.1.1 NFPA Publications.** National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 99, Standard for Health Care Facilities, 2005 edition.

**F.1.2 Other Publications.** Department of Homeland Security/FEMA, 500 C Street, SW, Washington, DC 20472.

National Mutual Aid and Resource Management Initiative Resource Type Definitions, National Incident Management System, Chapter IV.

**F.2 Informational References.** The following documents or portions thereof are listed here as informational resources only. They are not a part of the requirements of this document.

# F.2.1 Canada.

# Bureau de normalization du Québec

Montréal

8475 Avenue Christophe-Colomb

Montréal, QC H2M 2N9

Canada

(418) 652-2238 or (800) 386-5114

(418) 652-2292 (fax)

www.bnq.qc.ca



#### Canadian Standards Association (CSA)

5060 Spectrum Way

Mississauga, ON L4W 5N6

Canada

(416) 747-4000 or (800) 463-6727

(416) 747-2473 (fax)

www.csa.ca

#### **National Pollutant Release Inventory**

**Environment Canada** 

**Inquiry Centre** 

70 Crémazie Street

Gatineau, QC K1A 0H3

Canada

(819) 997-2800 or (800) 668-6767

(819) 994-1412 (fax)

www.ec.gc.ca/pdb/npri/npri\_home\_e.cfm

#### **Standards Council of Canada**

270 Albert Street, Suite 200

Ottawa, ON K1P 6N7

Canada

(613) 238-3222

(613) 569-7808 (fax)

www.scc.ca

#### **Underwriters Laboratories of Canada**

7 Underwriters Road

Toronto, ON M1R 3B4

(866) 9373-ULC or (416) 757-3611

(416) 757-8727 (fax)

www.ulc.ca

# F.2.2 United States.

# **F.2.2.1 NFPA Publications.** National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA codes, standards, recommended practices, and guides are excellent resources to assist in developing, implementing, and maintaining disaster and emergency management and business continuity programs. This annex provides a summary of the resources that are most commonly referenced.

For a complete list of NFPA documents, see NFPA at www.nfpa.org.

# F.2.2.1.1 Building Design Features.

NFPA 220, Standard on Types of Building Construction, 2006 edition.

NFPA 221, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls, 2006 edition.

NFPA 232, Standard for the Protection of Records, 2007 edition.

NFPA 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations, 2004 edition.

#### F.2.2.1.2 Codes.

NFPA 1, Uniform Fire Code<sup>TM</sup>, 2006 edition.

NFPA 54, National Fuel Gas Code, 2006 edition.

NFPA 70, National Electrical Code®, 2005 edition.

NFPA 70A, National Electrical Code<sup>®</sup> Requirements for One- and Two-Family Dwellings, 2005 edition.

NFPA 70B, Recommended Practice for Electrical Equipment Maintenance, 2006 edition.

NFPA 72<sup>®</sup>, National Fire Alarm Code<sup>®</sup>, 2007 edition.

NFPA 73, Electrical Inspection Code for Existing Dwellings, 2006 edition.

NFPA 101<sup>®</sup>, Life Safety Code<sup>®</sup>, 2006 edition.

# F.2.2.1.3 Emergency Operations.

NFPA 13E, Recommended Practice for Fire Department Operations in Properties Protected by Sprinkler and Standpipe Systems, 2005 edition.

NFPA 414, Standard for Aircraft Rescue and Fire-Fighting Vehicles, 2007 edition.

NFPA 422, Guide for Aircraft Accident/Incident Response Assessment, 2004 edition.

NFPA 424, Guide for Airport/Community Emergency Planning, 2002 edition.

NFPA 471, Recommended Practice for Responding to Hazardous Materials Incidents, 2002 edition.

NFPA 600, Standard on Industrial Fire Brigades, 2005 edition.

NFPA 601, Standard for Security Services in Fire Loss Prevention, 2005 edition.

NFPA 704, Standard System for the Identification of the Hazards of Materials for Emergency Response, 2007 edition.

NFPA 901, Standard Classifications for Incident Reporting and Fire Protection Data, 2006 edition.

NFPA 921, Guide for Fire and Explosion Investigations, 2004 edition.

NFPA 1141, Standard for Fire Protection in Planned Building Groups, 2003 edition.

NFPA 1600, Standard on Disaster/Emergency Management and Business Continuity Programs, 2007 edition.

NFPA 1620, Recommended Practice for Pre-Incident Planning, 2003 edition.

### F.2.2.1.4 Emergency Power.

NFPA 110, Standard for Emergency and Standby Power Systems, 2005 edition.

NFPA 111, Standard on Stored Electrical Energy Emergency and Standby Power Systems, 2005 edition.

NFPA 853, Standard for the Installation of Stationary Fuel Cell Power Systems, 2007 edition.

#### F.2.2.1.5 Fire Department.

NFPA 1201, Standard for Providing Emergency Services to the Public, 2004 edition.

NFPA 1221, Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems, 2007 edition.

NFPA 1250, Recommended Practice in Emergency Service Organization Risk Management, 2004 edition.

NFPA 1401, Recommended Practice for Fire Service Training Reports and Records, 2006 edition.

NFPA 1402, Guide to Building Fire Service Training Centers, 2007 edition.

NFPA 1403, Standard on Live Fire Training Evolutions, 2007 edition.

NFPA 1404, Standard for Fire Service Respiratory Protection Training, 2006 edition.

NFPA 1405, Guide for Land-Based Fire Fighters Who Respond to Marine Vessel Fires, 2006 edition.

NFPA 1410, Standard on Training for Initial Emergency Scene Operations, 2005 edition.

NFPA 1451, Standard for a Fire Service Vehicle Operations Training Program, 2007 edition.

NFPA 1452, Guide for Training Fire Service Personnel to Conduct Dwelling Fire Safety Surveys, 2005 edition.



ANNEX F 1600–49

NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, 2007 edition.

NFPA 1521, Standard for Fire Department Safety Officer, 2002 edition.

NFPA 1561, Standard on Emergency Services Incident Management System, 2005 edition.

NFPA 1581, Standard on Fire Department Infection Control Program, 2005 edition.

NFPA 1582, Standard on Comprehensive Occupational Medical Program for Fire Departments, 2007 edition.

NFPA 1583, Standard on Health-Related Fitness Programs for Fire Fighters, 2000 edition.

NFPA 1670, Standard on Operations and Training for Technical Search and Rescue Incidents, 2004 edition.

NFPA 1710, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments, 2004 edition.

NFPA 1720, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Volunteer Fire Departments, 2004 edition.

#### F.2.2.1.6 Fire Protection Equipment.

NFPA 10, Standard for Portable Fire Extinguishers, 2007 edition.

NFPA 13, Standard for the Installation of Sprinkler Systems, 2007 edition.

NFPA 13D, Standard for the Installation of Sprinkler Systems in Oneand Two-Family Dwellings and Manufactured Homes, 2007 edition.

NFPA 13R, Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height, 2007 edition.

NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, 2007 edition.

NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, 2002 edition.

NFPA 720, Standard for the Installation of Carbon Monoxide (CO) Warning Equipment in Dwelling Units, 2005 edition.

NFPA 1142, Standard on Water Supplies for Suburban and Rural Fire Fighting, 2007 edition.

#### F.2.2.1.7 Industrial Operations.

NFPA 30, Flammable and Combustible Liquids Code, 2003 edition.

NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages, 2003 edition.

NFPA 30B, Code for the Manufacture and Storage of Aerosol Products, 2007 edition.

NFPA 32, Standard for Drycleaning Plants, 2007 edition.

NFPA 45, Standard on Fire Protection for Laboratories Using Chemicals, 2004 edition.

NFPA 75, Standard for the Protection of Information Technology Equipment, 2003 edition.

NFPA 76, Standard for the Fire Protection of Telecommunications Facilities, 2005 edition.

NFPA 88A, Standard for Parking Structures, 2007 edition.

NFPA 99, Standard for Health Care Facilities, 2005 edition.

NFPA 130, Standard for Fixed Guideway Transit and Passenger Rail Systems, 2007 edition.

NFPA 140, Standard on Motion Picture and Television Production Studio Soundstages and Approved Production Facilities, 2004 edition

NFPA 150, Standard on Fire and Life Safety in Animal Housing Facilities, 2007 edition.

NFPA 303, Fire Protection Standard for Marinas and Boatyards, 2006 edition.

NFPA 318, Standard for the Protection of Semiconductor Fabrication Facilities, 2006 edition.

NFPA 415, Standard on Airport Terminal Buildings, Fueling Ramp Drainage, and Loading Walkways, 2002 edition.

NFPA 418, Standard for Heliports, 2006 edition.

NFPA 501A, Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities, 2005 edition.

NFPA 502, Standard for Road Tunnels, Bridges, and Other Limited Access Highways, 2004 edition.

NFPA 909, Code for the Protection of Cultural Resource Properties
— Museums, Libraries, and Places of Worship, 2005 edition.

NFPA 914, Code for Fire Protection of Historic Structures, 2007 edition.

#### F.2.2.1.8 Prevention.

NFPA 730, Guide for Premises Security, 2006 edition.

NFPA 731, Standard for the Installation of Electronic Premises Security Systems, 2006 edition.

#### F.2.2.1.9 Professional Qualifications.

NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents, 2002 edition.

NFPA 473, Standard for Competencies for EMS Personnel Responding to Hazardous Materials Incidents, 2002 edition.

NFPA 1000, Standard for Fire Service Professional Qualifications Accreditation and Certification Systems, 2006 edition.

NFPA 1001, Standard for Fire Fighter Professional Qualifications, 2002 edition.

NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications, 2003 edition.

NFPA 1003, Standard for Airport Fire Fighter Professional Qualifications, 2005 edition.

NFPA 1006, Standard for Rescue Technician Professional Qualifications, 2003 edition.

NFPA 1021, Standard for Fire Officer Professional Qualifications, 2003 edition.

NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, 2003 edition.

NFPA 1033, Standard for Professional Qualifications for Fire Investigator, 2003 edition.

NFPA 1035, Standard for Professional Qualifications for Public Fire and Life Safety Educator, 2005 edition.

NFPA 1041, Standard for Fire Service Instructor Professional Qualifications, 2007 edition.

NFPA 1051, Standard for Wildland Fire Fighter Professional Qualifications, 2007 edition.

NFPA 1061, Standard for Professional Qualifications for Public Safety Telecommunicator, 2007 edition.

NFPA 1071, Standard for Emergency Vehicle Technician Professional Qualifications, 2006 edition.

NFPA 1081, Standard for Industrial Fire Brigade Member Professional Qualifications, 2007 edition.

# F.2.2.1.10 Risk Control.

NFPA 51B, Standard for Fire Prevention During Welding, Cutting, and Other Hot Work, 2003 edition.

NFPA 70E<sup>®</sup>, Standard for Electrical Safety in the Workplace, 2004

NFPA 1144, Standard for Protection of Life and Property from Wildfire, 2002 edition.

# F.3 References for Extracts in Informational Sections.(Reserved)

# Index

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-A-	-I-
Accreditation programs,	Impact analysis [business impact analysis (BIA)] 5.3.3, A.5.3.3
disaster/emergency management A.1.3, Annex D	Definition
Administration	Incident action plan
Advisory committee	Definition
Application of standard	Incident management system (IMS)
Approved (definition)       3.2.1, A.3.2.1         Authorities       5.2, A.5.2.1, A.5.2.2	Definition
Authority having jurisdiction (definition)	Resources for E.2
interiority intring jurisdiction (definition)	Training 5.13.4
n.	International disaster/emergency management and related agencies
-В-	and organizations
Business continuity (definition)	Certification programs
see also Continuity of operations; Recovery	List Annex B
Business impact analysis (BIA)see Impact analysis [business impact	
analysis (BIA)]	-L-
C	Laws
-C-	Logistics
Canadian disaster/emergency management and related organizations	Logistics
Certification programs, disaster/emergency	-M-
management	
Communications	Mitigation       5.1.2, 5.5, A.4.1(3), A.5.1.2, A.5.5.1, A.5.5.2         Definition       3.3.9
Continuity of operations Activities	Plan 5.8.1.1, 5.8.3.1, 5.8.3.6, A.5.8.3.1
Impact analysis	Mutual aid/assistance agreements
Plan	Definition
Corrective Action Program	Definition
ū	
-D-	-N-
<b>Damage assessment</b>	NFPA 1600, BCI & DRII professional practices, and DHS/FEMA's
Definition	FPC 65 COOP elements crosswalk Table A.5.1
Definitions	
Disaster/emergency management (definition)	-0-
Disaster, emergency management,	
and related organizations Annex B, Annex C	Operational procedures
-E-	Emergency operations plan 5.8.1.1, 5.8.3.1, 5.8.3.4,
<b>Economic impact analysis</b>	A.5.8.3.1, A.5.8.3.4
Emergency management program (definition)	
Emergency operations centers (EOCs)	_P_
Emergency operations plan	<del>-</del>
A.5.8.3.1, A.5.8.3.4	Performance objectives
<b>Entity (definition)</b>	Plans and planning
<b>Evaluation</b>	Evaluation
Exercises, test	Exercises to test plan
	Preparedness
-F-	Definition
Facilities	<b>Prevention</b>
Finance	Definition
Impact analysis 5.3.3(7), A.5.3.3(7)	Plan
Procedures	Proceduressee Operational procedures
	Program administration
-H-	<b>Program coordinator</b>
Hazard identification	Program elements
Mitigation based on	<b>Program evaluation</b>
Prevention based on	Program management
Types of hazards	<b>Public information</b>
Hazard mitigationsee Mitigation	Purpose of standard
9	



INDEX **1600–**51

-R-	-S-
<b>Recovery</b>	<b>Scope of standard</b>
Definition	<b>Shall (definition)</b>
Incident management system for 5.9, A.5.9.1, A.5.9.2	<b>Should (definition)</b>
Plan 5.8.1.1, 5.8.3.1, 5.8.3.7, A.5.8.3.1, A.5.8.3.7	<b>Situation analysis</b>
Situation analysis	Definition
References	Stakeholder (definition)
<b>Resource management</b> 5.6, A.5.6	Standard (definition)
Definition	State certifications
Resources	State offices of emergency management
Accreditation and certification programs Annex D	<b>Strategic plan</b> 5.8.1.1, 5.8.3.1, 5.8.3.3, A.5.8.3.1, A.5.8.3.3
Incident management system E.2	
Organizations Annex B, Annex C	-T-
<b>Response</b>	<b>Training</b>
Definition	Disaster/emergency management accreditation and certification
Incident management system for 5.9, A.5.9.1 to A.5.9.5	programs Annex D
Plan 5.8.1.1, 5.8.3.1, 5.8.3.4, A.5.8.3.1, A.5.8.3.4	Resources for E.3
Situation analysis	
<b>Risk assessment</b>	-W-
Mitigation based on	Warning process/procedure

# Sequence of Events Leading to Issuance of an NFPA Committee Document

# **Step 1: Call for Proposals**

•Proposed new Document or new edition of an existing Document is entered into one of two yearly revision cycles, and a Call for Proposals is published.

# **Step 2: Report on Proposals (ROP)**

- •Committee meets to act on Proposals, to develop its own Proposals, and to prepare its Report.
- •Committee votes by written ballot on Proposals. If twothirds approve, Report goes forward. Lacking two-thirds approval, Report returns to Committee.
- •Report on Proposals (ROP) is published for public review and comment.

# **Step 3: Report on Comments (ROC)**

- •Committee meets to act on Public Comments to develop its own Comments, and to prepare its report.
- •Committee votes by written ballot on Comments. If twothirds approve, Report goes forward. Lacking two-thirds approval, Report returns to Committee.
- Report on Comments (ROC) is published for public review.

# **Step 4: Technical Report Session**

- "Notices of intent to make a motion" are filed, are reviewed, and valid motions are certified for presentation at the Technical Report Session. ("Consent Documents" that have no certified motions bypass the Technical Report Session and proceed to the Standards Council for issuance.)
- •NFPA membership meets each June at the Annual Meeting Technical Report Session and acts on Technical Committee Reports (ROP and ROC) for Documents with "certified amending motions."
- •Committee(s) vote on any amendments to Report approved at NFPA Annual Membership Meeting.

# **Step 5: Standards Council Issuance**

- •Notification of intent to file an appeal to the Standards Council on Association action must be filed within 20 days of the NFPA Annual Membership Meeting.
- •Standards Council decides, based on all evidence, whether or not to issue Document or to take other action, including hearing any appeals.

# Committee Membership Classifications

The following classifications apply to Technical Committee members and represent their principal interest in the activity of the committee.

- M *Manufacturer:* A representative of a maker or marketer of a product, assembly, or system, or portion thereof, that is affected by the standard.
- U *User:* A representative of an entity that is subject to the provisions of the standard or that voluntarily uses the standard.
- I/M *Installer/Maintainer:* A representative of an entity that is in the business of installing or maintaining a product, assembly, or system affected by the standard.
- L *Labor:* A labor representative or employee concerned with safety in the workplace.
- R/T Applied Research/Testing Laboratory: A representative of an independent testing laboratory or independent applied research organization that promulgates and/or enforces standards.
- E Enforcing Authority: A representative of an agency or an organization that promulgates and/or enforces standards.
- I *Insurance:* A representative of an insurance company, broker, agent, bureau, or inspection agency.
- C *Consumer:* A person who is, or represents, the ultimate purchaser of a product, system, or service affected by the standard, but who is not included in the *User* classification.
- SE Special Expert: A person not representing any of the previous classifications, but who has a special expertise in the scope of the standard or portion thereof.

# NOTES;

- 1. "Standard" connotes code, standard, recommended practice, or guide.
- 2. A representative includes an employee.
- 3. While these classifications will be used by the Standards Council to achieve a balance for Technical Committees, the Standards Council may determine that new classifications of members or unique interests need representation in order to foster the best possible committee deliberations on any project. In this connection, the Standards Council may make appointments as it deems appropriate in the public interest, such as the classification of "Utilities" in the National Electrical Code Committee.
- 4. Representatives of subsidiaries of any group are generally considered to have the same classification as the parent organization.

# **NFPA Technical Committee Document Proposal Form**

NOTE: All Proposals must be received by 5:00 pm EST/EDST on the published Proposal Closing Date. FOR OFFICE USE ONLY For further information on the standards-making process, please contact the Codes and Standards Administration at 617-984-7249 or visit www.nfpa.org/codes. Log #: For technical assistance, please call NFPA at 617-770-3000. Date Rec'd: Please indicate in which format you wish to receive your ROP/ROC | electronic | paper | download (Note: If choosing the download option, you must view the ROP/ROC from our website; no copy will be sent to you.) Tel. No. 716-555-1234 April 1, 200X Name John J. Doe Company Air Canada Pilot's Association Street Address 123 Summer Street Lane City Lewiston State NY 14092 Please indicate organization represented (if any) 1. (a) NFPA Document Title National Fuel Gas Code NFPA No. & Year 54, 200X Edition (b) Section/Paragraph 2. Proposal Recommends (check one): new text revised text deleted text Proposal (include proposed new or revised wording, or identification of wording to be deleted): [Note: Proposed text should be in legislative format; i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (deleted wording).] Revise definition of effective ground-fault current path to read: 3.3.78 Effective Ground-Fault Current Path. An intentionally constructed, permanent, low impedance electrically conductive path designed and intended to carry underground electric fault current conditions from the point of a ground fault on a wiring system to the electrical supply source. Statement of Problem and Substantiation for Proposal: (Note: State the problem that would be resolved by your recommendation; give the specific reason for your Proposal, including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.) Change uses proper electrical terms. 5. Copyright Assignment (a) I am the author of the text or other material (such as illustrations, graphs) proposed in this Proposal. (b) Some or all of the text or other material proposed in this Proposal was not authored by me. Its source is as follows (please identify which material and provide complete information on its source): ABC Co. I agree that any material that I author, either individually or with others, in connection with work performed by an NFPA Technical Committee shall be considered to be works made for hire for the NFPA. To the extent that I retain any rights in copyright as to such material, or as to any other material authored by me that I submit for the use of an NFPA Technical Committee in the drafting of an NFPA code, standard, or other NFPA document, I hereby grant and assign all and full rights in copyright to the NFPA. I further agree and acknowledge that I acquire no rights in any publication of the NFPA and that copyright and all rights in materials produced by NFPA Technical Committees are owned by the NFPA and that the NFPA may register copyright in its own name. Signature (Required) PLEASE USE SEPARATE FORM FOR EACH PROPOSAL • NFPA Fax: (617) 770-3500

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