

NFPA 400 Hazardous Materials Code Project September 6, 2007

NFPA has several documents that address the storage, use, and handling of hazardous materials. These documents have been the responsibility of many different NFPA technical committees and as a result of this distributed authorship the documents vary in detail, basic terminology, and basic fire control concepts.

The following table shows a few of the key documents.

Document	Responsible NFPA Committee
NFPA 30	Flammable Liquids
NFPA 55	Industrial and Medical Gases
NFPA 430,432,434, 490, 40, and 42	Hazardous Chemicals
NFPA 484	Combustible metals and Metal Dusts

For some time, these committees produced documents with no coordinating effort by NFPA. NFPA's building code project intervened (in 2003) into the world of hazardous materials documents with a chapter on hazardous materials that used consistent terminology and fire protection concepts. It also, as a building code, had primary jurisdiction on its subject matter. The problem of lack of coordination in the NFPA hazardous materials documents began to be resolved by the development of a hazardous materials template, employing the building code fire protection concepts, that was to be implemented by the individual NFPA technical committees. The plan was that when the documents were restructured according to this template they could then be combined into a common hazardous materials document.

The Hazardous Chemicals technical committee implemented this template but because so many of their documents were their responsibility they began a project to combine their documents when they were reformatted and to expand the coverage of their documents considerably to cover most classes of hazardous materials.

This process of consolidation of hazardous chemicals documents and classes of hazardous materials began in fall of 2004 when the Hazardous Chemicals committee voted to consolidate their existing documents into a single document. The scope of this document was expanded by the NFPA Standards Council decision to assign responsibility for the following classes of hazardous materials to the Hazardous Chemicals Technical Committee

- (1) Corrosive solids and liquids
- (2) Flammable solids
- (3) Pyrophoric solids and liquids
- (4) Toxic and highly toxic solids and liquids
- (5) Unstable (reactive) solids and liquids
- (6) Water-reactive solids and liquids

The committee already had responsibility for oxidizers and organic peroxides. These eight classes of hazardous materials account for a large portion of hazardous materials.

This combination of hazardous materials requirements is taking place in NFPA 400 Hazardous Materials Code. The first edition of this document will cover the classes of materials shown in the scope and table of contents listing below as well as gases and cryogenic fluids. The only major class of hazardous materials that will likely not be addressed in the first edition of NFPA 400 (which will be issued in July 2008 – see schedule below also) is flammable and combustible liquids. This class of hazardous materials will likely be addressed in the second edition of NFPA 400. The second edition of NFPA 400 will likely be issued according to an accelerated schedule. This means that the second edition of NFPA 400 could be issued as early as 2010.

SCOPE

1.1 Scope.

1.1.1 Applicability. This code shall apply to the storage, use, and handling of the following hazardous materials in all occupancies and facilities.

- (1) Corrosive solids and liquids
- (2) Flammable solids
- (3) Organic peroxide formulations
- (4) Oxidizer- liquids or solids
- (5) Pyrophoric solids and liquids
- (6) Toxic and highly toxic solids and liquids
- (7) Unstable (reactive) solids and liquids
- (8) Water-reactive solids and liquids

1.1.1.1 Occupancies. Unless specified otherwise in this code, all occupancy definitions and classifications shall be in accordance with NFPA 5000.

1.1.1.2 Multiple Hazards.* Hazardous materials that are classified in more than one hazard category, as set forth in 4.1.1, shall conform to the code requirements for each hazard category.

TABLE OF CONTENTS

NFPA 400 Hazardous materials Code

1. Administration
 2. Referenced Publications
 3. Definitions
 4. Classification of Hazards
 5. Control Areas, Threshold Limits, and Protection Levels
 6. General Requirements
 7. Emergency Planning, Fire Risk Control, and Chemical Hazards
 8. Reserved
 9. Security
 10. Performance-Based Option
 11. Ammonium Nitrate
 12. Corrosive Solids and Liquids
 13. Flammable Solids
 14. Organic Peroxide Formulations
 15. Oxidizer Solids and Liquids
 16. Reserved
 17. Pyrophoric Solids and Liquids
 18. Toxic and Highly Toxic Solids and Liquids
 19. Unstable (reactive) Solids and Liquids
 20. Water-reactive Solids and Liquids
 21. Compressed Gases and Cryogenic Fluids
- Annex A Explanatory Material
- Annex B Typical Organic Peroxide Formulations
- Annex C Typical Oxidizers
- Annex D Methods and Procedures for Emergency Response Involving Solid Oxidizers
- Annex E Safety Information on Oxidizers used as Swimming Pool Chemicals
- Annex F Properties and Uses of Ammonium Nitrate and Fire Fighting Procedures

Annual 2008 Revision Cycle

	PROCESS STAGE	PROCESS STEP	DATES FOR TC	DATES FOR TC
1	PRELIMINARY	1.0 Notification of intent to enter cycle	7/7/06	7/7/06
2	REPORT ON PROPOSALS (ROP)	2.1 Proposal closing date	*11/22/06	*11/22/06
		2.2 Final date for ROP meeting	2/23/07	2/2/07
		2.3 Final date for mailing TC ballots	3/16/07	2/16/07
		2.4 Receipt of (TC) ballots by staff liaison	4/20/07	3/9/07
		2.5 Receipt of TC recirculation ballots	5/4/07	3/16/07
		2.6 Final date for TCC meeting		4/13/07
		2.7 Final date for mailing TCC ballots		4/20/07
		2.8 Receipt of TCC ballots		5/11/07
		2.9 Receipt of TCC recirculation ballots		5/18/07
		2.10 Final copy (w/ ballot statements) to Secretary, Standards Council	5/11/07	5/25/07
		2.11 Completion of Reports	5/18/07	6/1/07
		2.12 ROP Published and Posted	6/22/07	6/22/07
3	REPORT ON COMMENTS (ROC)	3.1 Comment closing date	8/31/07	8/31/07
		3.2 Final date for ROC meeting	11/2/07	10/5/07
		3.3 Final date for mailing TC ballots	11/16/07	10/19/07
		3.4 Receipt of (TC) ballots by staff liaison	11/30/07	11/9/07
		3.5 Receipt of TC recirculation ballots	12/7/07	11/16/07
		3.6 Final date for TCC meeting		12/14/07
		3.7 Final date for mailing TCC ballots		12/21/07
		3.8 Receipt of TCC ballots		1/11/08
		3.9 Receipt of TCC recirculation ballots		1/18/08
		3.10 Final copy (w/ ballot statements) to Secretary, Standards Council	12/21/07	1/25/08
		3.11 Completion of Reports	1/11/08	2/1/08
		3.12 ROC Published and Posted	2/22/08	2/22/08
4	TECH SESSION PREPARATION	4.1 Notice of Intent to Make a Motion (NITMAM) Closing Date	4/4/08	4/4/08
		4.2 Posting of Filed NITMAM	5/4/08	5/4/08
5	TECHNICAL SESSION	5.0 Association Meeting for Documents with NITMAM	6/2-6/08	6/2-6/08
6	APPEALS & ISSUANCE	6.1 Appeal closing date	6/26/08	6/26/08
		6.2 Council issuance for Documents with NITMAM or without NITMAM	7/24/08	7/24/08

* Proposal Closing Dates may vary according to documents and schedules for Revision Cycles may change. Please check the NFPA website (www.nfpa.org) for the most up-to-date information on proposals closing dates and schedules.