

# Energy Emergency Planning Guide

An increase in major natural disasters and the growing number of damaging events involving gas, electric, water, and other utilities has led to heightened concerns about utility operations and public safety. Due to today's complex, compliance-based environment, utility managers and planners often find it difficult to plan for the actions needed to handle

The aim of this book is to present in a single volume an up-to-date account of the principles of chemistry and chemical engineering which underlie the major areas of the chemical process industry. This most recent edition includes several new chapters which address important threads in the industry's total fabric. These new chapters cover waste minimization, safety considerations in chemical plant design and operation, emergency response planning, and statistical applications in quality control and experimental planning. Together with the chapters on chemical industry economics and wastewater treatment~ they provide a unifying base on which the reader can most effectively use the information provided in the chapters which describe the various areas of the chemical process industries. The ninth edition of this established reference work contains the contributions of some fifty experts from industry, government, and academe. I have been humbled by the breadth and depth of their knowledge and expertise and by the willingness and enthusiasm with which they shared their knowledge and insights. They have, without exception, been unstinting in their efforts to make their respective contributions as complete and informative as possible within the space available. Errors of omission, duplication, and shortcomings in organization are mine. Grateful acknowledgments are made to the editors of technical journals and publishing houses for permission to reproduce illustrations and other materials and to the many industrial concerns that have contributed drawings and photographs. Comments and criticisms by readers will be welcome.

Meant to aid State & local emergency managers in their efforts to develop & maintain a viable all-hazard emergency operations plan. This guide clarifies the preparedness, response, & short-term recovery planning elements that warrant inclusion in emergency operations plans. It offers the best judgment & recommendations on how to deal with the entire planning process -- from forming a planning team to writing the plan. Specific topics of discussion include: preliminary considerations, the planning process, emergency operations plan format, basic plan content, functional annex content, unique planning, & linking Federal & State operations.

[Emergency Preparedness at the Indian Point Energy Center Located in Buchanan, New York](#)

[Energy Facilities](#)

[Energy Emergencies](#)

[Energy Emergency Planning Guide: Winter 1977-78](#)

[Government Preparedness for Weather Emergencies for Winter of 1977-1978](#)

[Index](#)

[Improved Energy Contingency Planning is Needed to Manage Future Energy Shortages](#)

[More Effectively](#)

[Winter 1977-78](#)

[Developing and Maintaining Emergency Operations Plans: Comprehensive Preparedness Guide \(CPG\) 101, Version 2. 0](#)

[2011 Essential Guide to Nuclear Power Plants and Nuclear Energy  
A Report of the Special Committee on Aging, United States Senate](#)

This book provides a history of emergency planning with respect to nuclear power plant accidents from the 1950's to the 2000's. It gives an overview of essential concepts that a working emergency planner should know, including brief overviews of the health physics and plant engineering that applies to emergency planning. Each chapter covers topics unique to radiological planning that distinguish it from planning for natural disasters. Some of the topics include processes that damage fuel, reactor source terms, basic dispersion theory, protective measures for the public and emergency worker, environmental surveys, and the essential elements of a drill and exercise program. Emergency Planning for Nuclear Power Plants is not intended as a guide to meeting regulatory requirements but provides an understanding of the essential concepts and language of radiological planning, so the planner can apply those concepts to their particular situation.

In the past few years the United States has experienced a series of disasters, such as Hurricane Katrina in 2005, which have severely taxed and in many cases overwhelmed responding agencies. In all aspects of emergency management, geospatial data and tools have the potential to help save lives, limit damage, and reduce the costs of dealing with emergencies. Great strides have been made in the past four decades in the development of geospatial data and tools that describe locations of objects on the Earth's surface and make it possible for anyone with access to the Internet to witness the magnitude of a disaster. However, the effectiveness of any technology is as much about the human systems in which it is embedded as about the technology itself. Successful Response Starts with a Map assesses the status of the use of geospatial data, tools, and infrastructure in disaster management, and recommends ways to increase and improve their use. This book explores emergency planning and response; how geospatial data and tools are currently being used in this field; the current policies that govern their use; various issues related to data accessibility and security; training; and funding. Successful Response Starts with a Map recommends significant investments be made in training of personnel, coordination among agencies, sharing of data and tools, planning and preparedness, and the tools themselves.

Sam Mullen is a System Restoration Planner for an Atlantic Energy company. He has more than twenty-five years' experience in various operating areas, has written several editions of the company's corporate contingency plan, and has consulted on many others. He develops training and directs corporate emergency planning and disaster recovery exercises. Mullen has written articles for technical publications and regularly speaks at conferences and seminars. He has presented his model for emergency plan development at Electric Power Research Institute's first two conferences on utility emergency preparedness. He has assisted in the development of software applications and has chaired and worked on several task forces related to emergency preparedness and the installation of automated systems.

[Report](#)

[Hearing Before the Subcommittee on Energy and Power of the Committee on Interstate and Foreign Commerce, House of Representatives, Ninety-fifth Congress, Second Session ...  
February 16, 1978](#)

[Annual Report to Congress - U.S. Department of Energy, Office of Policy and Evaluation  
Monthly Catalog of United States Government Publications](#)

[Energy emergency planning guide](#)

[A Governor's Guide](#)

[Energy Emergency Planning Guide](#)

[Hearings Before the Subcommittee on Energy and Power of the Committee on Interstate and Foreign Commerce, House of Representatives, Ninety-sixth Congress, First Session ...](#)

[Riegel's Handbook of Industrial Chemistry](#)

[Energy Impacts of the Coal Strike](#)

[Energy Research Abstracts](#)

[Improving Geospatial Support for Disaster Management](#)

*This authoritative guide provides official information on nuclear power plants and the nuclear energy industry with coverage of commercial reactor designs, safety, emergency preparedness, security, renewals, new designs, licensing, American plants, decommissioning, soviet plants, fuel cycle, and more. Contents include: Pressurized Water Reactors (PWRs) \* Boiling Water Reactors (BWRs) \* Reactors by Region in the U.S. \* March 2011 \* List of Power Reactor Units \* New Nuclear Plant Designs \* Emergency Preparedness at Nuclear Power Plants \* Emergency Planning Zones \* Emergency Classification \* Terrorism and Emergency Preparedness \* Oversight of Nuclear Power Plants \* Inspection Program \* Nuclear Reactor Risk \* Policy, Regulations, and Regulatory Framework \* Seismic Issues for Existing Nuclear Power Plants \* Environmental Monitoring \* Underground Pipes at Nuclear Reactors \* Reactor License Renewal \* Nuclear Security \* Security Inspections and Rulemaking \* Force-on-Force Security Inspections \* Nuclear Power for Electrical Generation Reactor Concepts Manual \* Reactor Fuel Assemblies \* High Temperature Gas-Cooled Reactor (HTGR) \* Outlook for New U.S. Reactors \* Current Status of U.S. Nuclear Industry \* Federal Initiatives To Encourage New Nuclear Power Plant Construction \* Nuclear Power in the U.S. - An Overview \* Nuclear Power and the Environment \* The Nuclear Fuel Cycle \* U.S. Nuclear Power History \* TVA's Nuclear at a Glance \* Soviet Nuclear Power Plant Designs \* International Nuclear Event Scale \* Nuclear Power Options Viability Study \* Advanced Nuclear Energy \* Decommissioning Nuclear Power Plants \* Demolition of a Reactor Containment Building \* Decommissioning Status for Shut Down NRC-Licensed Power Reactors \* Frequently Asked Questions About License Applications for New Nuclear Power Reactors. In the U.S., 104 commercial nuclear power reactors are licensed to operate at 65 sites in 31 States. For each site, there are onsite and offsite emergency plans to assure that adequate protective measures can be taken to protect the public in the event of a radiological emergency. Federal oversight of emergency preparedness for licensed nuclear power plants is shared by the NRC and Federal Emergency Management Agency (FEMA). This sharing is facilitated through a Memorandum of Understanding (MOU). The MOU is responsive to the President's decision of December 7, 1979, that FEMA take the lead in overseeing offsite planning and response, and that NRC assist FEMA in carrying out this role. The NRC has statutory responsibility for the radiological health and safety of the public by overseeing onsite preparedness and has overall authority for both onsite and offsite emergency preparedness. For planning purposes, the NRC defines two emergency planning zones (EPZs) around each nuclear power plant. The exact size and configuration of the zones vary from plant to plant due to local emergency response needs and capabilities, population, land characteristics, access routes, and jurisdictional boundaries. The two types of EPZs are: The plume exposure pathway EPZ extends about 10 miles in radius around a plant. Its primary concern is the exposure of the public to, and the inhalation of, airborne radioactive*

contamination. This is a privately authored news service and educational publication of Progressive Management.

This guide highlights the findings of the National Governors' Association (NGA) Emergency Preparedness Project study, recommends an approach to comprehensive state emergency management, and offers pertinent management advice and tools based on hard-won experience in a variety of states. Case histories based on actual experience, as told by governors, their aides, and state emergency office directors, appear as insets throughout the text. These case histories both illustrate and augment the surrounding text. The outcomes of cases describing comprehensive emergency management are hypothetical, as this practice is not yet implemented in most states. Intended for governors and their staff aides, this guide is concerned with emergency management. It is one of a series of five companion publications of the NGA Center for Policy Research. The NPR includes analysis based on data available as of December 31, 2019, that helps decision-makers understand the risks facing the Nation and the country's ability to address those risks. Additionally, the report includes content that can inspire action and identify areas of focus. The report provides an annual picture of the risks the Nation faces; the capabilities the Nation has—and needs—to prepare for those risks; and data-driven analysis of current, critical considerations in emergency management.

[hearing before the Subcommittee on Energy Regulation of the Committee on Energy and Natural Resources, United States Senate, Ninety-sixth Congress, first session ....](#)

[2020 National Preparedness Report](#)

[Department of Energy authorizations \(fiscal years 1979 and 1980\) and energy emergency preparedness](#)

[Texas Energy Emergency Planning Guide](#)

[Successful Response Starts with a Map winter 1977-78](#)

[Energy Aware Planning Guide](#)

[Comprehensive Emergency Management](#)

[Model Guidelines for Including Energy Efficiency and Renewable Energy Into State Energy Emergency Plans](#)

[Mandatory energy conservation and gasoline and diesel fuel rationing](#)

[Transportation Energy Contingency Planning](#)

[Guide for All-Hazard Emergency Operations Planning](#)

Over 19,000 total pages ... Public Domain U.S. Government published manual:

Numerous illustrations and matrices. Published in the 1990s and after 2000.

TITLES and CONTENTS: ELECTRICAL SCIENCES - Contains the following

manuals: Electrical Science, Vol 1 - Electrical Science, Vol 2 - Electrical

Science, Vol 3 - Electrical Science, Vol 4 - Thermodynamics, Heat Transfer,

And Fluid Flow, Vol 1 - Thermodynamics, Heat Transfer, And Fluid Flow, Vol 2

- Thermodynamics, Heat Transfer, And Fluid Flow, Vol 3 - Instrumentation

And Control, Vol 1 - Instrumentation And Control, Vol 2 Mathematics, Vol 1 -

Mathematics, Vol 2 - Chemistry, Vol 1 - Chemistry, Vol 2 - Engineering

Symbology, Prints, And Drawings, Vol 1 - Engineering Symbology, Prints, And

Drawings, Vol 2 - Material Science, Vol 1 - Material Science, Vol 2 -

Mechanical Science, Vol 1 - Mechanical Science, Vol 2 - Nuclear Physics And

*Reactor Theory, Vol 1 - Nuclear Physics And Reactor Theory, Vol 2.*

**CLASSICAL PHYSICS - The Classical Physics Fundamentals** includes information on the units used to measure physical properties; vectors, and how they are used to show the net effect of various forces; Newton's Laws of motion, and how to use these laws in force and motion applications; and the concepts of energy, work, and power, and how to measure and calculate the energy involved in various applications. \* Scalar And Vector Quantities \* Vector Identification \* Vectors: Resultants And Components \* Graphic Method Of Vector Addition \* Component Addition Method \* Analytical Method Of Vector Addition \* Newton's Laws Of Motion \* Momentum Principles \* Force And Weight \* Free-Body Diagrams \* Force Equilibrium \* Types Of Force \* Energy And Work \* Law Of Conservation Of Energy \* Power - **ELECTRICAL SCIENCE: The Electrical Science Fundamentals Handbook** includes information on alternating current (AC) and direct current (DC) theory, circuits, motors, and generators; AC power and reactive components; batteries; AC and DC voltage regulators; transformers; and electrical test instruments and measuring devices. \* Atom And Its Forces \* Electrical Terminology \* Units Of Electrical Measurement \* Methods Of Producing Voltage (Electricity) \* Magnetism \* Magnetic Circuits \* Electrical Symbols \* DC Sources \* DC Circuit Terminology \* Basic DC Circuit Calculations \* Voltage Polarity And Current Direction \* Kirchoff's Laws \* DC Circuit Analysis \* DC Circuit Faults \* Inductance \* Capacitance \* Battery Terminology \* Battery Theory \* Battery Operations \* Types Of Batteries \* Battery Hazards \* DC Equipment Terminology \* DC Equipment Construction \* DC Generator Theory \* DC Generator Construction \* DC Motor Theory \* Types Of DC Motors \* DC Motor Operation \* AC Generation \* AC Generation Analysis \* Inductance \* Capacitance \* Impedance \* Resonance \* Power Triangle \* Three-Phase Circuits \* AC Generator Components \* AC Generator Theory \* AC Generator Operation \* Voltage Regulators \* AC Motor Theory \* AC Motor Types \* Transformer Theory \* Transformer Types \* Meter Movements \* Voltmeters \* Ammeters \* Ohm Meters \* Wattmeters \* Other Electrical Measuring Devices \* Test Equipment \* System Components And Protection Devices \* Circuit Breakers \* Motor Controllers \* Wiring Schemes And Grounding **THERMODYNAMICS, HEAT TRANSFER AND FLUID FUNDAMENTALS.** The Thermodynamics, Heat Transfer, and Fluid Flow Fundamentals Handbook includes information on thermodynamics and the properties of fluids; the three modes of heat transfer - conduction, convection, and radiation; and fluid flow, and the energy relationships in fluid systems. \* Thermodynamic Properties \* Temperature And Pressure Measurements \* Energy, Work, And Heat \* Thermodynamic Systems And Processes \* Change Of Phase \* Property Diagrams And Steam Tables \* First Law Of Thermodynamics \* Second Law Of Thermodynamics \* Compression Processes \* Heat Transfer Terminology \* Conduction Heat Transfer \* Convection Heat

*Transfer \* Radiant Heat Transfer \* Heat Exchangers \* Boiling Heat Transfer \* Heat Generation \* Decay Heat \* Continuity Equation \* Laminar And Turbulent Flow \* Bernoulli's Equation \* Head Loss \* Natural Circulation \* Two-Phase Fluid Flow \* Centrifugal Pumps INSTRUMENTATION AND CONTROL. The Instrumentation and Control Fundamentals Handbook includes information on temperature, pressure, flow, and level detection systems; position indication systems; process control systems; and radiation detection principles. \* Resistance Temperature Detectors (Rtds) \* Thermocouples \* Functional Uses Of Temperature Detectors \* Temperature Detection Circuitry \* Pressure Detectors \* Pressure Detector Functional Uses \* Pressure Detection Circuitry \* Level Detectors \* Density Compensation \* Level Detection Circuitry \* Head Flow Meters \* Other Flow Meters \* Steam Flow Detection \* Flow Circuitry \* Synchro Equipment \* Switches \* Variable Output Devices \* Position Indication Circuitry \* Radiation Detection Terminology \* Radiation Types \* Gas-Filled Detector \* Detector Voltage \* Proportional Counter \* Proportional Counter Circuitry \* Ionization Chamber \* Compensated Ion Chamber \* Electroscope Ionization Chamber \* Geiger-Müller Detector \* Scintillation Counter \* Gamma Spectroscopy \* Miscellaneous Detectors \* Circuitry And Circuit Elements \* Source Range Nuclear Instrumentation \* Intermediate Range Nuclear Instrumentation \* Power Range Nuclear Instrumentation \* Principles Of Control Systems \* Control Loop Diagrams \* Two Position Control Systems \* Proportional Control Systems \* Reset (Integral) Control Systems \* Proportional Plus Reset Control Systems \* Proportional Plus Rate Control Systems \* Proportional-Integral-Derivative Control Systems \* Controllers \* Valve Actuators MATHEMATICS The Mathematics Fundamentals Handbook includes a review of introductory mathematics and the concepts and functional use of algebra, geometry, trigonometry, and calculus. Word problems, equations, calculations, and practical exercises that require the use of each of the mathematical concepts are also presented. \* Calculator Operations \* Four Basic Arithmetic Operations \* Averages \* Fractions \* Decimals \* Signed Numbers \* Significant Digits \* Percentages \* Exponents \* Scientific Notation \* Radicals \* Algebraic Laws \* Linear Equations \* Quadratic Equations \* Simultaneous Equations \* Word Problems \* Graphing \* Slopes \* Interpolation And Extrapolation \* Basic Concepts Of Geometry \* Shapes And Figures Of Plane Geometry \* Solid Geometric Figures \* Pythagorean Theorem \* Trigonometric Functions \* Radians \* Statistics \* Imaginary And Complex Numbers \* Matrices And Determinants \* Calculus CHEMISTRY The Chemistry Handbook includes information on the atomic structure of matter; chemical bonding; chemical equations; chemical interactions involved with corrosion processes; water chemistry control, including the principles of water treatment; the hazards of chemicals and gases, and basic gaseous diffusion processes. \* Characteristics Of Atoms \* The Periodic Table \* Chemical Bonding \* Chemical Equations \* Acids, Bases, Salts, And Ph \* Converters \**

*Corrosion Theory \* General Corrosion \* Crud And Galvanic Corrosion \* Specialized Corrosion \* Effects Of Radiation On Water Chemistry (Synthesis) \* Chemistry Parameters \* Purpose Of Water Treatment \* Water Treatment Processes \* Dissolved Gases, Suspended Solids, And Ph Control \* Water Purity \* Corrosives (Acids And Alkalies) \* Toxic Compound \* Compressed Gases \* Flammable And Combustible Liquids*

**ENGINEERING SYMBOLOGY.** *The Engineering Symbology, Prints, and Drawings Handbook includes information on engineering fluid drawings and prints; piping and instrument drawings; major symbols and conventions; electronic diagrams and schematics; logic circuits and diagrams; and fabrication, construction, and architectural drawings. \* Introduction To Print Reading \* Introduction To The Types Of Drawings, Views, And Perspectives \* Engineering Fluids Diagrams And Prints \* Reading Engineering P&Ids \* P&Id Print Reading Example \* Fluid Power P&Ids \* Electrical Diagrams And Schematics \* Electrical Wiring And Schematic Diagram Reading Examples \* Electronic Diagrams And Schematics \* Examples \* Engineering Logic Diagrams \* Truth Tables And Exercises \* Engineering Fabrication, Construction, And Architectural Drawings \* Engineering Fabrication, Construction, And Architectural Drawing, Examples*

**MATERIAL SCIENCE.** *The Material Science Handbook includes information on the structure and properties of metals, stress mechanisms in metals, failure modes, and the characteristics of metals that are commonly used in DOE nuclear facilities. \* Bonding \* Common Lattice Types \* Grain Structure And Boundary \* Polymorphism \* Alloys \* Imperfections In Metals \* Stress \* Strain \* Young's Modulus \* Stress-Strain Relationship \* Physical Properties \* Working Of Metals \* Corrosion \* Hydrogen Embrittlement \* Tritium/Material Compatibility \* Thermal Stress \* Pressurized Thermal Shock \* Brittle Fracture Mechanism \* Minimum Pressurization-Temperature Curves \* Heatup And Cooldown Rate Limits \* Properties Considered \* When Selecting Materials \* Fuel Materials \* Cladding And Reflectors \* Control Materials \* Shielding Materials \* Nuclear Reactor Core Problems \* Plant Material Problems \* Atomic Displacement Due To Irradiation \* Thermal And Displacement Spikes \* Due To Irradiation \* Effect Due To Neutron Capture \* Radiation Effects In Organic Compounds \* Reactor Use Of Aluminum*

**MECHANICAL SCIENCE.** *The Mechanical Science Handbook includes information on diesel engines, heat exchangers, pumps, valves, and miscellaneous mechanical components. \* Diesel Engines \* Fundamentals Of The Diesel Cycle \* Diesel Engine Speed, Fuel Controls, And Protection \* Types Of Heat Exchangers \* Heat Exchanger Applications \* Centrifugal Pumps \* Centrifugal Pump Operation \* Positive Displacement Pumps \* Valve Functions And Basic Parts \* Types Of Valves \* Valve Actuators \* Air Compressors \* Hydraulics \* Boilers \* Cooling Towers \* Demineralizers \* Pressurizers \* Steam Traps \* Filters And Strainers*

**NUCLEAR PHYSICS AND REACTOR THEORY.** *The Nuclear Physics and Reactor Theory Handbook includes information on atomic and nuclear*

physics; neutron characteristics; reactor theory and nuclear parameters; and the theory of reactor operation. \* Atomic Nature Of Matter \* Chart Of The Nuclides \* Mass Defect And Binding Energy \* Modes Of Radioactive Decay \* Radioactivity \* Neutron Interactions \* Nuclear Fission \* Energy Release From Fission \* Interaction Of Radiation With Matter \* Neutron Sources \* Nuclear Cross Sections And Neutron Flux \* Reaction Rates \* Neutron Moderation \* Prompt And Delayed Neutrons \* Neutron Flux Spectrum \* Neutron Life Cycle \* Reactivity \* Reactivity Coefficients \* Neutron Poisons \* Xenon \* Samarium And Other Fission Product Poisons \* Control Rods \* Subcritical Multiplication \* Reactor Kinetics \* Reactor

This guide will help local communities prepare for potential accidents involving hazardous materials. Describes how to form a local planning team, find a team leader, identify and analyze hazards, identify existing response equipment and personnel, write a plan, and keep the plan up to date. Will help communities, small and large alike, to make the impact of accidents less severe. Appendices: implementing Title III; list of acronyms and recognized abbreviations; glossary; criteria for assessing state and local preparedness; bibliography. Also includes a 32-page report, "What's Happening with Hazardous Materials Emergency Response Teams," excerpts from "Energy and Transportation Network News" (April 1994).

These model guidelines can serve as a planning guide for state and local emergency planners. It is intended to supplement existing energy emergency management plans.

[Energy Emergency Preparedness \(EEP\) Program & Plan Four-phased Implementation Guide](#)

[Hearing Before the Subcommittee on Economic Development, Public Buildings and Emergency Management of the Committee on Transportation and Infrastructure, House of Representatives, One Hundred Eighth Congress, First Session, February 25, 2003](#)

[hearings before the Subcommittee on Energy and Power of the Committee on Interstate and Foreign Commerce, House of Representatives, Ninety-sixth Congress, first session, on H.R. 1004 ....](#)

[Emergency Planning Guide for Utilities](#)

[Federal Register](#)

[Developments in Aging](#)

[Emergency Planning for Nuclear Power Plants](#)

[A Continuing Bibliography with Indexes](#)

[Energy Abstracts for Policy Analysis](#)

[Preparing for Possible Motor Fuel Shortages](#)

[Energy](#)

[Energy Emergency Planning Guide for Local Government](#)

This Energy Emergency Planning Guide for Winter, 1977-78 has been prepared in order to: identify and evaluate actions available to deal with energy



emergencies this winter; provide an advance indication to the public of those actions considered most likely to be taken by the government, and provide industry, state, and local governments with suggestions about actions which they can take to deal with energy emergencies. The Guide contains specifications for over 50 standby programs and procedures, recommended implementation guidelines for using these programs keyed to a pre-emergency phase and three phases of shortfalls, and a design for an Energy Emergency Center. Flexible implementation guidelines are proposed for natural gas, petroleum, electricity/coal, and propane shortages. (MCW).

Comprehensive Preparedness Guide (CPG) 101 provides Federal Emergency Management Agency (FEMA) guidance on the fundamentals of planning and developing emergency operations plans (EOP). CPG 101 shows that EOPs are connected to planning efforts in the areas of prevention, protection, response, recovery, and mitigation. Version 2.0 of this Guide expands on these fundamentals and encourages emergency and homeland security managers to engage the whole community in addressing all risks that might impact their jurisdictions. While CPG 101 maintains its link to previous guidance, it also reflects the reality of the current operational planning environment. This Guide integrates key concepts from national preparedness policies and doctrines, as well as lessons learned from disasters, major incidents, national assessments, and grant programs. CPG 101 provides methods for planners to: Conduct community-based planning that engages the whole community by using a planning process that represents the actual population in the community and involves community leaders and the private sector in the planning process; Ensure plans are developed through an analysis of risk; Identify operational assumptions and resource demands; Prioritize plans and planning efforts to support their seamless transition from development to execution for any threat or hazard; Integrate and synchronize efforts across all levels of government. CPG 101 incorporates the following concepts from operational planning research and day-to-day experience: The process of planning is just as important as the resulting document; Plans are not scripts followed to the letter, but are flexible and adaptable to the actual situation; Effective plans convey the goals and objectives of the intended operation and the actions needed to achieve them. Successful operations occur when organizations know their roles, understand how they fit into the overall plan, and are able to execute the plan. Comprehensive Preparedness Guide (CPG) 101 provides guidelines on developing emergency operations plans (EOP). It promotes a common understanding of the fundamentals of risk-informed planning and decision making to help planners examine a hazard or threat and produce integrated, coordinated, and synchronized plans. The goal of CPG 101 is to make the planning process routine across all phases of emergency management and for all homeland security mission areas. This Guide helps planners at all levels of government in their efforts to develop and maintain

viable all-hazards, all-threats EOPs. Accomplished properly, planning provides a methodical way to engage the whole community in thinking through the life cycle of a potential crisis, determining required capabilities, and establishing a framework for roles and responsibilities. It shapes how a community envisions and shares a desired outcome, selects effective ways to achieve it, and communicates expected results. Each jurisdiction's plans must reflect what that community will do to address its specific risks with the unique resources it has or can obtain. Planners achieve unity of purpose through coordination and integration of plans across all levels of government, nongovernmental organizations, the private sector, and individuals and families. This supports the fundamental principle that, in many situations, emergency management and homeland security operations start at the local level and expand to include Federal, state, territorial, tribal, regional, and private sector assets as the affected jurisdiction requires additional resources and capabilities. A shared planning community increases the likelihood of integration and synchronization, makes planning cycles more efficient and effective, and makes plan maintenance easier.

[The President's Standby Energy Emergency Contingency Plans](#)

[Over 200 U.S. Department of Energy Manuals Combined: CLASSICAL PHYSICS; ELECTRICAL SCIENCE; THERMODYNAMICS, HEAT TRANSFER AND FLUID FUNDAMENTALS; INSTRUMENTATION AND CONTROL; MATHEMATICS; CHEMISTRY; ENGINEERING SYMBIOLOGY; MATERIAL SCIENCE; MECHANICAL SCIENCE; AND NUCLEAR PHYSICS AND REACTOR THEORY](#)

[ERDA Energy Research Abstracts](#)

[Hearing Before the Subcommittee on Energy and Power of the Committee on Interstate and Foreign Commerce, House of Representatives, Ninety-fifth Congress, Second Session ... November 17, 1978](#)

[Monthly Catalogue, United States Public Documents](#)

[Reactor Designs, Safety, Emergency Preparedness, Security, Renewals, New Designs, Licensing, American Plants, Decommissioning](#)

[A Community Planning Guide, Grants, New Mexico](#)

[Hearings Before the Subcommittee on Intergovernmental Relations of the Committee on Governmental Affairs, United States Senate, Ninety-fifth Congress, First Session](#)

[Hazardous Materials Emergency Planning Guide](#)