

21st Century Complete Guide to

# **Electromagnetic Pulse EMP**



**Nuclear Weapon Effects (NWE) and the Threat  
to the Electric Grid and Critical Infrastructure  
HEMP, EMI, Microwave Devices**

# Electromagnetic Pulse Emp Threat To Critical Infrastructure

**Commission to Assess the Threat to  
the United States from  
Electromagnetic Pulse (EMP) Attack,U.  
S. House of Representatives,U. S.  
Government**

## **Electromagnetic Pulse Emp Threat To Critical Infrastructure:**

**Electromagnetic Pulse (Emp)** Infrastru Subcommittee on Cybersecurity, and Security Technologies of the Committee on Homeland Security House of Representatives, Infrastructure Protection Subcommittee on Cybersecurity, Infrastructure Protection, and Security Technologies of the Committee on Homeland Security House of Representatives, 2014-11-09 EMP is simply a burst of electromagnetic radiation that results from certain types of high energy explosions or from a suddenly fluctuating magnetic field EMPs can be generated by nuclear weapons from naturally occurring sources such as solar storms or specialized non nuclear EMP weapons In 1962 the United States conducted a test named STARFISH Prime where the military detonated a 1.4 megaton thermonuclear bomb about 25 miles above Johnston Atoll in the Pacific In space six American British and Soviet satellites suffered damage and 800 miles away in Hawaii burglar alarms sounded street lights blinked out and phones radios and televisions went dead While only 1 percent of the existing street lights were affected it became clear that electromagnetic pulse or EMP could cause significant damage Some would say it is a low probability but the damage that could be caused in the event of an EMP attack both by the sun a solar event or a man made attack would be catastrophic We talk a lot about a nuclear bomb in Manhattan and we talk about a cybersecurity threat the grid power grid in the Northeast and all these things would actually probably pale in comparison to the devastation that an EMP attack could perpetrate on Americans

**Electromagnetic Pulse (EMP)** United States. Congress. House. Committee on Homeland Security. Subcommittee on Cybersecurity, Infrastructure Protection, and Security Technologies, 2014

**Electromagnetic Pulse Emp** United States. Congress, United States House of Representatives, Committee on Homeland Security, 2017-09-23

Electromagnetic pulse EMP threat to critical infrastructure *Report of the Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack* Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack, 2008

**Report of the Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack** Bernan, United States, 2008

**Report of the Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack: Critical National Infrastructures**, 2008 This report presents the Commission's assessment of the effects of a high altitude electromagnetic pulse EMP attack on our critical national infrastructures An earlier report *Report of the Commission to Assess the Threat to the United States from Electromagnetic Pulse EMP Volume 1 Executive Report* 2004 provided an overview When a nuclear explosion occurs at high altitude the EMP signal it produces will cover a wide geographic region within the line of sight of the detonation Because of the dependence of U.S. society on the electrical power system its vulnerability to an EMP attack coupled with the EMP's particular damage mechanisms creates the possibility of long term catastrophic consequences The consequences of an EMP event should be prepared for and protected against to the extent reasonably possible Cold War style deterrence is not likely to be an effective threat against potential protagonists that are either failing states or trans national groups Therefore

making preparations to manage the effects of an EMP attack is critical to reducing the consequences and thus probability of attack. The appropriate national level approach should balance prevention, protection, and recovery. This volume focuses on a description of the potential vulnerabilities of our critical national infrastructures; the chapters in this document deal individually with the EMP threat to each critical infrastructure separately. It is also important to understand that not only mutual interdependence may be enabled by technology advances but also technologies that have facilitated this growing interdependence may be common across the many individual infrastructures. In particular, the Commission thought it important to single out the growth and common infrastructural infiltration of one particular transformative technology: the development of automated monitoring and control systems known as Supervisory Control and Data Acquisition (SCADA) systems.

2011 Essential Guide to Electromagnetic Pulse (EMP) Attack - Reports of the EMP Commission on the Threat and Critical National Infrastructure - the Danger from High-Altitude Nuclear Explosions

Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack, U. S. House of Representatives, U. S. Government, 2017-08-21

Comprehensive guide to the threat of an electromagnetic pulse (EMP) attack with a high altitude nuclear weapon detonation including both reports of the Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack Executive Report and 2008 Critical Infrastructure Report plus testimony given at hearings before the House of Representatives Committee on National Security Military Research and Development Subcommittee on the threat posed by EMP to U.S. military systems and civil infrastructure. The commission report abstract states: Several potential adversaries have or can acquire the capability to attack the United States with a high altitude nuclear weapon generated electromagnetic pulse (EMP). A determined adversary can achieve an EMP attack capability without having a high level of sophistication. EMP is one of a small number of threats that can hold our society at risk of catastrophic consequences. EMP will cover the wide geographic region within line of sight to the nuclear weapon. It has the capability to produce significant damage to critical infrastructures and thus to the very fabric of U.S. society as well as to the ability of the United States and Western nations to project influence and military power. The common element that can produce such an impact from EMP is primarily electronics so pervasive in all aspects of our society and military coupled through critical infrastructures. Our vulnerability is increasing daily as our use of and dependence on electronics continues to grow. The impact of EMP is asymmetric in relation to potential protagonists who are not as dependent on modern electronics. The current vulnerability of our critical infrastructures can both invite and reward attack if not corrected. Correction is feasible and well within the Nation's means and resources to accomplish.

Commission executive report contents include:

- Nature of the EMP Threat
- Prevention, Protection, and Recovery of Civilian Infrastructures
- Strategy And Recommendations
- Intelligence Interdiction and Deterrence
- Protecting Critical Components of the Infrastructure
- Maintaining the Capability to Monitor and Evaluate the Condition of Critical Infrastructures
- Recognizing EMP Attack
- Planning to Carry Out a Systematic Recovery of Critical Infrastructures
- Training

Evaluating Red Teaming and Periodically Reporting to the Congress Defining the Federal Government's Responsibility and Authority to Act Recognizing the Opportunities for Shared Benefits Conducting Research and Development Electric Power Infrastructure Telecommunications Importance of Assured Telecommunications EMP Effects on Telecommunications Recommended Mitigation Activities Banking And Finance Fuel Energy Infrastructure Transportation Infrastructure Food Infrastructure Water Supply Infrastructure Emergency Services Space Systems Government Keeping The Citizenry Informed Protection Of Military Forces The Critical National Infrastructures report includes Infrastructure Commonalities SCADA Systems Impact of SCADA Vulnerabilities on Critical Infrastructures Historical Insight Infrastructures and Their Interdependencies Commission Sponsored Modeling and Simulation M S Activities Electric Power Description Vulnerabilities Test Results Historical Insights Distinctions Strategy Recommendations Telecommunications Telecommunications Support During Emergencies EMP Impact on Telecommunications Recommendations Banking and Finance The Financial Services Industry Vulnerability to EMP Consequences of Financial Infrastructure Failure Petroleum and Natural Gas Infrastructure Description Direct Effects of EMP on Petroleum and Natural Gas Infrastructure Petroleum Infrastructure and SCADA Natural Gas Infrastructure and SCADA Effects of an EMP Event on the U S Petroleum and Natural Gas Infrastructures **21st Century Complete Guide to Electromagnetic Pulse (EMP)** Department of Defense,U. S. Congress,Federal Energy Regulatory Commission (FERC),National Aeronautics and Space Administration (NASA),Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack,U. S. Government,2017-05-09 This revised up to date and comprehensive ebook presents a superb collection of authoritative documents detailing the threat posed by electromagnetic pulse EMP caused by nuclear weapons and geomagnetic storms Contents Part 1 Overview of the Threat Part 2 High Altitude Electromagnetic Pulse HEMP and High Power Microwave HPM Devices Threat Assessments Part 3 Electromagnetic Pulse Threats in 2010 Part 4 Interim Report of the Defense Science Board DSB Task Force on the Survivability of Systems and Assets to Electromagnetic Pulse EMP and other Nuclear Weapon Effects NWE Part 5 Electronic Systems Failures and Anomalies Attributed to Electromagnetic Interference Part 6 Report of the Commission to Assess the Threat to the United States from Electromagnetic Pulse EMP Attack Volume 1 Executive Report Part 7 Report Of The Commission To Assess The Threat To The United States From Electromagnetic Pulse EMP Attack Critical National Infrastructures Part 8 Threat Posed By Electromagnetic Pulse EMP To U S Military Systems And Civil Infrastructure Hearings Before the U S House Of Representatives Committee On National Security Part 9 Space Weather Part 10 The Sun the Earth and Near Earth Space A Guide Part 11 Congressional Hearings about Electric Grid Threat The nation's power grid is vulnerable to the effects of an electromagnetic pulse EMP a sudden burst of electromagnetic radiation resulting from a natural or man made event EMP events occur with little or no warning and can have catastrophic effects including causing outages to major portions of the U S power grid possibly lasting for months or longer Naturally occurring EMPs are produced as part of the normal cyclical

activity of the sun while man made EMPs including Intentional Electromagnetic Interference IEMI devices and High Altitude Electromagnetic Pulse HEMP are produced by devices designed specifically to disrupt or destroy electronic equipment or by the detonation of a nuclear device high above the earth's atmosphere EMP threats have the potential to cause wide scale long term losses with economic costs to the United States that vary with the magnitude of the event The cost of damage from the most extreme solar event has been estimated at 1 to 2 trillion with a recovery time of four to ten years while the average yearly cost of installing equipment to mitigate an EMP event is estimated at less than 20 cents per year for the average residential customer HEMP is produced by a nuclear weapon detonated above the atmosphere No blast shock or radiation is felt at the Earth's surface however electromagnetic fields do reach the surface IEMI is a term that is applied to the non explosive non nuclear intentional generation of intense electromagnetic fields that are used to introduce signals into electronic equipment for the specific purpose of disrupting confusing or damaging these electronics IEMI devices are malicious in nature and are used for terrorist or criminal purposes Many types of IEMI are commercially available and can be as compact as a briefcase in size In many ways the IEMI threat is similar to that of the early time threat of high altitude EMP and can be addressed in a similar fashion

*Threat Posed by Electromagnetic Pulse (EMP) Attack* United States. Congress. House. Committee on Armed Services, 2009

**Understanding America's Greatest Existential Threats** Dr. J. R. Maxwell, 2020-12-08 In this introductory volume readers will learn about the vital role that the various Critical Infrastructure CI sectors play in America in the context of homeland security The protection maintenance and monitoring of these interdependent CI assets is a shared responsibility of governments private sector owner operators first responders and all those involved in homeland security and emergency management As this foundational learning resource demonstrates rapidly advancing technologies combined with exponential growth in demand on the aging infrastructure of America's power grid is setting the stage for a potentially catastrophic collapse that would paralyze each and every facet of civilian life and military operations This meticulously researched primer will guide readers through the known world of power failures and cyber attacks to the emerging threat from a High altitude Electromagnetic Pulse HEMP A HEMP would cause cascading failures in the power grid communications water treatment facilities oil refineries pipelines banking supply chain management food production air traffic control and all forms of transportation Each chapter in America's Greatest Existential Threat Vol 1 begins with learning objectives and ends with a series of review questions to assess take up of the chapter material Similarly subsequent volumes will explore HEMP and emerging issues in closer detail with current research and analysis now in development

*21st Century Complete Guide to Electromagnetic Pulse (EMP)* Progressive Management, 2013 This revised up to date and comprehensive ebook presents a superb collection of authoritative documents detailing the threat posed by electromagnetic pulse EMP caused by nuclear weapons and geomagnetic storms Contents Part 1 Overview of the Threat Part 2 High Altitude Electromagnetic Pulse HEMP and High Power Microwave HPM Devices Threat

Assessments Part 3 Electromagnetic Pulse Threats in 2010 Part 4 Interim Report of the Defense Science Board DSB Task Force on the Survivability of Systems and Assets to Electromagnetic Pulse EMP and other Nuclear Weapon Effects NWE Part 5 Electronic Systems Failures and Anomalies Attributed to Electromagnetic Interference Part 6 Report of the Commission to Assess the Threat to the United States from Electromagnetic Pulse EMP Attack Volume 1 Executive Report Part 7 Report Of The Commission To Assess The Threat To The United States From Electromagnetic Pulse EMP Attack Critical National Infrastructures Part 8 Threat Posed By Electromagnetic Pulse EMP To U S Military Systems And Civil Infrastructure Hearings Before the U S House Of Representatives Committee On National Security Part 9 Space Weather Part 10 The Sun the Earth and Near Earth Space A Guide Part 11 Congressional Hearings about Electric Grid Threat The nation s power grid is vulnerable to the effects of an electromagnetic pulse EMP a sudden burst of electromagnetic radiation resulting from a natural or man made event EMP events occur with little or no warning and can have catastrophic effects including causing outages to major portions of the U S power grid possibly lasting for months or longer Naturally occurring EMPs are produced as part of the normal cyclical activity of the sun while man made EMPs including Intentional Electromagnetic Interference IEMI devices and High Altitude Electromagnetic Pulse HEMP are produced by devices designed specifically to disrupt or destroy electronic equipment or by the detonation of a nuclear device high above the earth s atmosphere EMP threats have the potential to cause wide scale long term losses with economic costs to the United States that vary with the magnitude of the event The cost of damage from the most extreme solar event has been estimated at 1 to 2 trillion with a recovery time of four to ten years while the average yearly cost of installing equipment to mitigate an EMP event is estimated at less than 20 cents per year for the average residential customer HEMP is produced by a nuclear weapon detonated above the atmosphere No blast shock or radiation is felt at the Earth s surface however electromagnetic fields do reach the surface IEMI is a term that is applied to the non explosive non nuclear intentional generation of intense electromagnetic fields that are used to introduce signals into electronic equipment for the specific purpose of disrupting confusing or damaging these electronics IEMI devices are malicious in nature and are used for terrorist or criminal purposes Many types of IEMI are commercially available and can be as compact as a briefcase in size In many ways the IEMI threat is similar to that of the early time threat of high altitude EMP and can be addressed in a similar fashion

*Protection of Substation Critical Equipment Against Intentional Electromagnetic Threats* Vladimir Gurevich, 2017-01-06 The modern microprocessor based electronic equipment most vulnerable to Intentional Destructive Electromagnetic Interferences IDEI includes High Altitude Electromagnetic Pulse HEMP in all substation equipment However power equipment and especially transformers are also subject to the influence of HEMP The book discusses problems and solutions for both kinds of substation equipment Separated into eight chapters the book covers Technological progress and its consequences Intentional Destructive Electromagnetic Interferences IDEI Methods and means of Digital Protective Relay DPR protection from electromagnetic pulse Passive methods and means of

DPR protection from electromagnetic pulse Active methods and means of DPR protection from electromagnetic pulse Tests of DPR resistance to IDEI impacts Organizational and technical measures to protect DPR from HEMP and Protection of power equipment and transformers from HEMP Key features Practical approach focusing on technical solutions for difficult problems Full data on electromagnetic threats and methods of their prevention are concentrated Addresses a gap in knowledge in the power system industry This book emphasizes practical recommendations on protection of power substations electric equipment from IDEI that intended for not only staff operating electric equipment but also for manufacturers of this equipment specialists of designing companies managers of electric energy industry as well as for teachers and postgraduate students

**Report of the Commission to Assess the Threat to the United States from Electromagnetic Pulse (Emp) Attack** Critical National Infrastructures, 2011-09 This is the 2008 in depth report to Congress on the threat to the United States from an EMP They conducted tests on equipment and vehicles and project what would happen if the U S was subjected to an EMP Chapters include Electric Power Telecommunications Banking and Finance Petroleum and Natural Gas Transportation Infrastructure Food Infrastructure Water Infrastructure Emergency Services Government and more *Electromagnetic Pulse (EMP)* United States. Congress. House. Committee on Homeland Security. Subcommittee on Cybersecurity, Infrastructure Protection, and Security Technologies, 2014

*Catastrophic Possibilities Threatening U.S. Security* Kristen Boon, Aziz Z. Huq, 2011 Terrorism Commentary on Security Documents is a hardbound series that provides primary source documents and expert commentary on the worldwide counter terrorism effort Among the documents collected are transcripts of Congressional testimony reports by such federal government bodies as the Congressional Research Service CRS and the Government Accountability Office GAO and case law covering issues related to terrorism Most volumes carry a single theme and inside each volume the documents appear within topic based categories The series also includes a subject index and other indices that guide the user through this complex area of the law Volume 119 *Catastrophic Possibilities Threatening U S Security* discusses the nightmare scenario of a catastrophic attack on the United States While the U S national security apparatus remains focused on the wars in Iraq and Afghanistan and appears to be postulating a future international security environment defined largely by threats increasingly posed by weak failing and failed states astute strategists are not discounting the possibility of a catastrophic attack on the United States In this volume Douglas Lovelace presents a number of documents that help describe explain and assess the nature and severity of the threat of a catastrophic attack Offering expert commentary for each section Lovelace groups the documents into three categories Catastrophic Potentialities in the International Security Environment Countering the Proliferation of Nuclear Weapons and Nuclear Materials and Catastrophic Cyber Attack Documents include a Department of Defense overview of the four categories of strategic challenges a Government Accountability Office report addressing weapons of mass destruction and the actions needed to allocate resources for counterproliferation programs and an insightful overview of the threat of

catastrophic cyber attack by the Department of Homeland Security The commentary and primary sources in Volume 119 will apprise researchers and practitioners of international law and national security of the perils of a catastrophic attack against the United States posed by terrorists radicals state failure and humanitarian disasters *Electromagnetic Pulse (EMP): Threat to Critical Infrastructure, Serial No. 113-68, May 8, 2014, 113-2 Hearing* United States. Congress. House. Select Committee on Homeland Security, 2014\* **Grid Act Impact , Critical Infrastructure Protection** , 2015 The threat posed by an electromagnetic pulse EMP or solar weather event could have a debilitating impact on the nation s critical electrical infrastructure as well as other key assets that depend on electricity These events could lead to power outages over broad geographic areas for extended durations Addressing these risks requires collaboration among multiple government and industry stakeholders with DHS in the lead role for overall infrastructure protection efforts working in coordination with DOE The EMP Commission established by statute and comprised of subject matter experts issued recommendations in 2008 addressing the preparation protection and recovery of critical infrastructures against a possible EMP attack The majority of these recommendations were made to DHS and DOE This testimony is based on preliminary observations from GAO s ongoing review of DHS s efforts to address electromagnetic threats Specifically this testimony addresses the extent to which DHS has 1 taken action to address recommendations from the 2008 EMP Commission Report and 2 coordinated with other principal federal agencies such as DOE and industry stakeholders to mitigate risks to the electric grid from electromagnetic threats GAO reviewed EMP Commission recommendations and DHS program documents and interviewed relevant stakeholders who provided insights on key issues and coordination activities with the federal government to address these threats Preliminary page **Assessing the Threat from Electromagnetic Pulse (EMP)** , 2017 The critical national infrastructure in the United States faces a present and continuing existential threat from combined arms warfare including cyber and manmade electromagnetic pulse EMP attack as well as from natural EMP from a solar superstorm Protecting and defending the national electric grid and other critical infrastructures from cyber and EMP could be accomplished at reasonable cost and minimal disruption to the present systems that comprise U S critical infrastructure In summary the Commission sees the high altitude nuclear explosion generated electromagnetic pulse as an existential threat to the survival of the United States and its allies that can be exploited by major nuclear powers and small scale nuclear weapon powers including North Korea and non state actors such as nuclear armed terrorists A Nation at War in an Era of Strategic Change Williamson Murray, 2004 The President Secretary of Defense and the Army s Chief of Staff have all stated that the United States is a Nation at War The U S military faces significant strategic challenges as it continues to transform the force and improve interagency integration into joint operations all the while engaging in active combat operations associated with the Global War on Terrorism This collection of outstanding essays three of which won prestigious writing awards by the students enrolled in the Army War College s Advanced Strategic Art Program ASAP highlight some of these strategic

challenges and offer thoughtful solutions They provide insights that will undoubtedly prove useful to decisionmakers at the highest levels of our national security establishment ASAP graduates continue to make their mark as outstanding theater strategists in the Office of the Secretary of Defense the Joint Staff and Army Staff and in the Combatant Commands

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