Disaster Preparedness for

EMP Attacks and Solar Storms

(Expanded Edition)

by Arthur T. Bradley, Ph.D.

Disaster Preparedness For Emp Attacks And Solar Storms Expanded Edition

Kevin Cogan, Army War College (U.S.). Center for Strategic Leadership

Disaster Preparedness For Emp Attacks And Solar Storms Expanded Edition:

Disaster Preparedness for EMP Attacks and Solar Storms Arthur T. Bradley, 2012 A book to help you to prepare for two end of the world as we know it events the EMP attack and the solar storm Practical preparations are outlined including steps to meet basic needs in the absence of modern utilities and the use of Faraday cages and uninterruptible power supplies to Disaster Preparedness for EMP Attacks and Solar Storms Arthur T. Bradley, 2012 A book to protect personal electronics help you to prepare for two end of the world as we know it events the EMP attack and the solar storm Practical preparations are outlined including steps to meet basic needs in the absence of modern utilities and the use of Faraday cages and uninterruptible power supplies to protect personal electronics Risk-based National Infrastructure Protection Priorities for EMP and Solar Storms George H. Baker, 2017 The Commission has provided a compelling case for protecting civilian infrastructure against the effects of EMP and geomagnetic disturbances GMDs caused by severe solar storms Similar to protecting critical infrastructure against any hazard it will be important to take a risk based priority approach for these two electromagnetic threats recognizing that it will be fiscally impracticable to protect everything In this regard EMP and solar storms are particularly challenging in that they interfere with electrical and electronic data control transmission and communication systems organic to nearly all infrastructures simultaneously over wide areas The affected geographies may be continental in scale These events thus represent a class of high consequence disasters that is unique in coverage and ubiquitous system debilitation Such disasters deserve particular attention with regard to preparedness and recovery since assistance from non affected regions of the nation could be scarce or nonexistent At first blush the problem of where to begin in developing a national protection program seems overwhelming Despite the challenges posed by such an endeavor it is the purpose of the present work to suggest that such a program is possible and affordable based on a system priority approach

Military Planning for a Catastrophic Critical Infrastructure Event - In the Dark, Terminal Blackout U. S. Army, Strategic Studies Institute, Director of National Intelligence, Central Intelligence Agency (CIA), U. S. Government, 2017-05-09 Two important reports from the U. S. Army s. Strategic Studies Institute and Army War College discuss the terrible threat to civilization posed by damage to the electrical grid from electromagnetic pulse EMP attack or a solar storm. For all but the last 150 years the infrastructure constructed for better human living standards has been relatively unaffected by localized geological disasters or the broader effects of solar storms. But the harnessing of electrical power begun in the mid nineteenth century and its distribution via an interconnected grid to which 86% of the U. S. population is now connected has created the potential for a near certain catastrophe of unprecedented proportion if it fails. The loss of electrical power and communications infrastructure for days weeks and more than a year are threat scenarios which could disintegrate the social agricultural and governmental fabric which makes a modern society possible today. The most serious threat to the electric grid would be the destruction of power transformers which would take months or years to restore on a national scale.

Similarly not only can this destruction be produced by naturally occurring solar storms but the same damaging effect can be replicated by a nuclear weapon and other man made interference devices through malicious intent A well placed deliberate nuclear attack at high altitude by a hostile party can produce radiation emissions which can destroy a nation s critical infrastructure Although there is nothing that can reduce the likelihood of solar flare activity defense against a nuclear attack is part of national defense High end cyberspace attacks such as shutting down various supervisory control and data acquisition SCADA systems controlling power generation and distribution throughout the nation offer a significant threat to critical infrastructure loss that must be defended against Threats to the electric grid cyber solar non nuclear electromagnetic pulse NNEMP and high altitude nuclear electromagnetic pulse HEMP as well as the potential consequences of significant damage to grid components by terrorists and other natural disasters have increased incrementally since 2001 but details releasable to the public at the unclassified level were rare prior to 2008 Efforts by the Congressional Commission to Assess the Threat to the United States from Electromagnetic Pulse EMP Attack to declassify data relevant to American society within their final 2008 report were successful albeit limited as much remains classified and subsequently heralded during a major conference at Niagara Falls sponsored by a new non profit non partisan organization which hosted highly influential experts and proponents of critical electric infrastructure protection Prepping for a Suburban Or Rural Community Michael Mabee, 2013-07-04 Millions of Americans perhaps the majority of the population would die if the electrical grid went down for a significant period of time And while this disturbing fact is well known to Congress it is also well known to America s enemies Little has been done to mitigate the threat Iran North Korea terrorist groups and others move forward in their capabilities to attack the power grid and the United States today remains extremely vulnerable Some individual Americans known as preppers have taken steps to prepare their families for such a disaster but the real key to survival lies in small communities having a civil defense plan A prepared community has a better chance of survival than a prepared individual This book is about taking prepping to the next level so that your town can be ready for any disaster large or small It is possible for a town to survive if the grid goes down long term But only if a few of its citizens act now This book is different from other books on prepping and emergency preparedness Rather than focusing on individual survival this book takes you through the steps to create a nonprofit civil defense organization which can help prepare your town for a worst case national disaster And in being prepared for a worst case scenario you and your town can be prepared for anything from a minor power outage to a hurricane to an electromagnetic pulse attack taking out the entire power grid In the Dark Kevin Cogan, Army War College (U.S.). Center for Strategic Leadership, 2011 The preservation of the electric grid is central to the defense of the United States To assess the state of preparedness of the nation in the event of the loss of critical infrastructure especially the electrical and communications infrastructure the Center of Strategic Leadership at the U S Army War College conducted a three day workshop which assembled a body of subject matter experts civic leaders and electric industry

providers to create awareness discuss threat postures and recommend actions to better prepare for the possibility of a critical infrastructure failure or collapse of the electrical grid and associated electronic devices due to either a solar storm Grid Act Impact, electromagnetic pulse EMP or a cyber attack P 1 Blackstarting the North American Power Grid After a Nuclear Electromagnetic Pulse (EMP) Event Or Major Solar Storm, 2012 The electric power grid is our most critical infrastructure This key resource provides the energy required for all other infrastructures to function In modern times electricity has become necessary to sustain life The power grid in the U S is a target for terrorists and is vulnerable to naturally occurring events Numerous assessments have been performed on the vulnerability of our national power grid to both manmade and natural events 1 Two significant wide area threats against our power grid are solar storms and electromagnetic pulse EMP attacks Solar storms are naturally occurring events that have the potential to create large scale blackouts that could potentially affect more than 50% of the U S population 2 EMP attacks occur when nuclear weapons are detonated at high altitudes although there is no threat of direct blast or radiation dangers to humans EMP events can wreck power grids Although numerous studies have been conducted on the effects of EMP events and solar storms on the U S power grid little has been done to plan for restarting or blackstarting the power grid after such an event If electricity from unaffected areas is not available the blackstart process becomes much more challenging. The procedures required to blackstart the power grid following a wide area outage are very different from the procedures used to restart the power grid following the major but limited blackouts that have occurred to date such as the 2003 Northeast blackout This document develops a starting point for blackstarting the U S power grid based on likely effects on critical infrastructures caused by solar storms and EMP events Previous regional blackstarts were assessed to glean empirical information on aspects that could be extrapolated to a national blackstart contingency Beyond the Storms Dane S Egli, 2014-12-18 This book deals with both actual and potential terrorist attacks on the United States as well as natural disaster preparedness and management in the current era of global climate change The topics of preparedness critical infrastructure investments and risk assessment are covered in detail The author takes the reader beyond counterterrorism statistics better first responder equipment and a fixation on FEMA grant proposals to a holistic analysis and implementation of mitigation response and recovery efforts The recent Oklahoma tornadoes and West Texas storage tank explosion show the unpredictability of disaster patterns and the Boston Marathon bombings expose the difficulty in predicting and preventing attacks Egli makes a compelling case for a culture of resilience by asserting a new focus on interagency collaboration public private partnerships and collective action Building upon the lessons of the 9 11 attacks hurricane Katrina and the Deepwater Horizon oil spill the basic findings are supported by a creative mix of case studies which include superstorm Sandy cascading power outages GPS and other system vulnerabilities and Japan's Fukushima disaster with its sobering aftermath This book will help a new generation of leaders understand the need for smart resilience **Surviving Emp** Rob Hanus, 2017-07-22 2nd Edition In a

blink of an eye life as you know it can change forever In the aftermath of an EMP attack or a CME impact from the sun the power grid will go down and it will be months or years before it is restored In that time millions of people will have starved to death Both an EMP and a CME can permanently take down the power grid in the United States leaving hundreds of millions of people without electricity water food and medicine Urban areas will soon erupt into violence as people quickly learn that the electricity won t be coming back Worse yet an EMP will also take out billions of electronic devices including vehicles by overloading the microchips with high voltage This Mini Guide on EMP and EMP Protection produced by the Preparedness Podcast will give you information on what these events are and considerations for preparing for these events including on how you can make your own Faraday cages to protect your electronic equipment It includes the information researched and tested by the Preparedness Podcast and gives you a solid understanding of the danger facing us from two plausible grid down **Electromagnetic Pulse (Emp)** Infrastru Subcommittee on Cybersecurity, and Security Technologies of the scenarios 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 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 **Emp Attack Bug Out Vehicle** Survival Nick, 2017-11-24 One of the most essential elements of any disaster preparedness plan is to have a designated bug out vehicle that you can use to evacuate your family and supplies from your home to your bug out location if need be The problem however is what if the disaster you face is a major EMP attack that fries all electronics and renders most cars useless What are you supposed to do now The answer of course is to own an EMP proof car that will still continue to run even after an EMP attack has happened There are very few cars that will continue to work after an EMP attack and the only ones that will will be a few older models made in 1990 or before Fortunately this book will discuss what specific types of cars will continue to work after an EMP attack and the features that you need to look for in each one In this book we will cover the

following topics The parts of a car that will be affected by an EMP Historical EMP tests on vehicle Qualities to look for in an EMP proof vehicle A list of affordable vehicles you can buy that will continue to work after an EMP attack Factors to consider with an EMP proof vehicle Steps to make your car even more EMP proof How to put together an EMP car survival kit Having a car that works even after an EMP will be a huge advantage that the vast majority of other people will not have Having a car will enable you to get from Point A to Point B fast to carry your family and supplies with you all in the same place and to provide shelter from inclement weather In contrast to this bugging out on foot or in a bicycle will make travel significantly slower will leave you more exposed to the outside elements and those who would seek to harm you and you ll be able to bring a lot less gear and supplies as well This is why having a bug out vehicle is so important and it s why having one that will still work after an EMP attack is also so important 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 Electric Armageddon Dr. Peter Vincent Pry, 2013-02-15 Imagine an America in a permanent blackout without electric power without communications without mass transportation without banking and finance without food and water Imagine the machinery of modern civilization stopped in an instant Imagine the high tech EMP threat killing millions of people the old fashioned way through chaos starvation disease and societal collapse Sound impossible The EMP threat is as real as the nuclear weapons programs of Iran North Korea China and Russia More fantastic still imagine that Mother Nature can make an EMP that would collapse the machinery of modern civilization everywhere on planet Earth Imagine that the Sun can make something like an electrical hurricane in space that we shall call a great geomagnetic storm that would destroy electronic systems and collapse critical infrastructures everywhere Imagine that great geomagnetic storms occur about once every century Imagine that the last great geomagnetic storm was in 1859 before civilization became dependent upon electricity Imagine that our modern electrified societies are now overdue to experience a natural EMP catastrophe Incredible It is all true and as real as the Sun Most fantastic of all imagine that the technology to protect civilization against the nuclear and natural EMP threat is well understood and has been at hand for decades Imagine that preparedness of the United States to survive and recover from EMP would also mitigate the effects of all other hazards including cyber attacks sabotage hurricanes and earthquakes Imagine that the cost of protecting the national electric grid from EMP is well within the nation s means and resources Imagine that saving our power grid and thus the lives of 200 million Americans who would perish in an EMP event today at the cost of about a dollar per life Now imagine that in the U S Congress Democrats and Republicans alike have been trying to protect the United States from EMP for years Imagine that this bipartisan unanimous effort to protect Americans from EMP has been thwarted by lawyers in the government bureaucracies and the electric power industry A paranoid fantasy It is all true as real as Washington bureaucrats and K Street lobbyists This book tells well the story of the EMP threat and of the struggle to protect our nation from this little known but most perilous and most imminent of all

national security nightmares However the greatest value of this book is a bold new vision for a way to rapidly protect America from EMP Every century or so a seminal book such as Carl von Clausewitz s On War or Alfred Thayer Mahan s Sea Power revolutionizes the way people think about national security This could be another such book if only it is read But beyond improved national security this book s prescriptions hold the promise of an improved America where national preparedness necessitates renewing in our citizens the fading virtues of self sufficiency and rugged individualism that made Threat to the United States from Electromagnetic Pulse (EMP) Attack U. S. America great and free Government, 2017-09-09 The EMP Commission a US Government body was established pursuant to title XIV of the Floyd D Spence National Defense Authorization Act for Fiscal Year 2001 as enacted into law by Public Law 106 398 114 Stat 1654A 345 Duties of the EMP Commission include assessing the nature and magnitude of potential high altitude EMP threats to the United States from all potentially hostile states or non state actors that have or could acquire nuclear weapons and ballistic missiles enabling them to perform a high altitude EMP attack against the United States within the next 15 years the vulnerability of United States military and especially civilian systems to an EMP attack giving special attention to vulnerability of the civilian infrastructure as a matter of emergency preparedness the capability of the United States to repair and recover from damage inflicted on United States military and civilian systems by an EMP attack and the feasibility and cost of hardening select military and civilian systems against EMP attack The Commission is charged with identifying any steps it believes should be taken by the United States to better protect its military and civilian systems from EMP attack

A Nation Forsaken Michael Maloof, 2013 Analyzes the threat of an electromagnetic pulse event arguing that America s defenses are not prepared for a natural or man made incident that could devastate a country almost entirely dependent on its electrical grid for power and communication Electric Armageddon Peter Pry, 2013-02-15 Imagine an America in a permanent blackout without electric power without communications without mass transportation without banking and finance without food and water Imagine the machinery of modern civilization stopped in an instant Imagine the high tech EMP threat killing millions of people the old fashioned way through chaos starvation disease and societal collapse Sound impossible The EMP threat is as real as the nuclear weapons programs of Iran North Korea China and Russia More fantastic still imagine that Mother Nature can make an EMP that would collapse the machinery of modern civilization everywhere on planet Earth Imagine that the Sun can make something like an electrical hurricane in space that we shall call a great geomagnetic storm that would destroy electronic systems and collapse critical infrastructures everywhere Imagine that great geomagnetic storms occur about once every century Imagine that the last great geomagnetic storm was in 1859 before civilization became dependent upon electricity Imagine that our modern electrified societies are now overdue to experience a natural EMP catastrophe Incredible It is all true and as real as the Sun Most fantastic of all imagine that the technology to protect civilization against the nuclear and natural EMP threat is well understood and has been at hand for decades Imagine

that preparedness of the United States to survive and recover from EMP would also mitigate the effects of all other hazards including cyber attacks sabotage hurricanes and earthquakes Imagine that the cost of protecting the national electric grid from EMP is well within the nation s means and resources Imagine that saving our power grid and thus the lives of 200 million Americans who would perish in an EMP event today at the cost of about a dollar per life Now imagine that in the U S Congress Democrats and Republicans alike have been trying to protect the United States from EMP for years Imagine that this bipartisan unanimous effort to protect Americans from EMP has been thwarted by lawyers in the government bureaucracies and the electric power industry A paranoid fantasy It is all true as real as Washington bureaucrats and K Street lobbyists This book tells well the story of the EMP threat and of the struggle to protect our nation from this little known but most perilous and most imminent of all national security nightmares However the greatest value of this book is a bold new vision for a way to rapidly protect America from EMP Every century or so a seminal book such as Carl von Clausewitz s On War or Alfred Thayer Mahan s Sea Power revolutionizes the way people think about national security This could be another such book if only it is read But beyond improved national security this book s prescriptions hold the promise of an improved America where national preparedness necessitates renewing in our citizens the fading virtues of self sufficiency and rugged individualism that made America great and free Chairman's Report William R. Graham, 2018-10-06 The United States critical national infrastructure faces a present and continuing existential threat from combined arms warfare including cyber and man made electromagnetic pulse EMP attack and natural EMP from a solar superstorm This book written by the chairman of the EMP Commission explains the great dangers **Powering Through** George H. Baker, Steven E. Bieber, John M. Contestabile, Torry D. Crass, David P. Hunt, John A. Jackson, John Juhasz, William Kaewert, Frank J. Koza, Stephanie A. Lokmer, Charles L. Manto, Curry W. Mayer, Robert E. McCreight, Robert B. Newman, Philip J. Palin, Steven C. Pappas, Thomas S. Popik, Fred M. Rosa, John D. Rosica, James W. Terbush, Janet R. Thomas, Loren M. Walker, 2016-12-01 Powering Through Version 1 0 contains for the first time a comparison of critical infrastructures that can be adversely impacted by five high impact threats high altitude Electromagnetic Pulse HEMP solar geomagnetic storms cyber attacks physical attacks and Radio Frequency RF weapons The stoplight chart in the Executive Summary is printed on the inside cover of the book in color This book is an Action Guide providing an overview of infrastructure interdependencies and opportunities to protect mitigate and recover It addresses all five hazards to critical infrastructure and potential cascading effects on water wastewater and other critical infrastructures if power blackouts are long lasting Importantly the book concentrates on consequence management starting at the individual household and community levels of preparedness If we are better prepared at home we can better assist the organizations that will lead recovery whatever the challenges Version 1 0 is published by the InfraGard Electromagnetic Pulse Special Interest Group in December 2016 in support of a Workshop to begin outreach and improvements for a future Version 2 0 The goals for Version 2 0 are to investigate

alternative resilient strategies to model resilient island communities and to examine the government and private sector domains and technologies to strengthen critical infrastructures and recovery opportunities in event of catastrophic losses InfraGard is an association of about 43 000 persons who represent businesses academic institutions state and local law enforcements infrastructure experts and others dedicated to sharing information and intelligence to prevent hostile acts against the U S It is a public private partnership with the FBI The Electromagnetic Pulse Special Interest Group EMP SIG tm mission is to inform communities how to mitigate high impact threats of long term power and communications failure greater than 30 days which could lead to catastrophic cascading losses of life sustaining infrastructures and resources for recovery Ordering information for hardcopy and e book versions of Powering Through can be obtained online via www empcenter org or via www amazon com Net proceeds from book sales are assigned to the InfraGard Electromagnetic Pulse Special Interest Group to enable improvements to the Action Guide in a planned Version 2 0 **Blackout Wars** Peter Vincent Pry, 2015-11-25 Blackout Wars is about the historically unprecedented threat to our electronic civilization from its dependence on the electric power grid Most Americans have experienced temporary blackouts and regard them as merely an inconvenience Some Americans have experienced more protracted local and regional blackouts as in the aftermaths of Hurricanes Sandy and Katrina and may be better able to imagine the consequences of a nationwide blackout lasting months or years that plunges the entire United States into the dark In such a nightmare blackout the entire population of the United States could be at risk There would be no food No water Communications transportation industry business and finance all of the critical infrastructures that support modern civilization and the lives of the American people would be paralyzed by collapse of the electric power grid Millions could die How could a catastrophic blackout happen Threats to the electric power grid are posed by cyber attack sabotage a geomagnetic super storm and electromagnetic pulse EMP from the high altitude detonation of a nuclear weapon Blackout Wars warns that terrorists and rogue states are developing a revolutionary new military strategy that could exploit all of these threats in combination including exploiting the opportunity of severe weather or a geo storm to collapse the national electric grid and all the critical infrastructures It would be the fall of American civilization For the first time in history the most dysfunctional societies like North Korea that cannot even feed its own people or even non state actors like terrorists could destroy the most successful societies on Earth by means of a Blackout War Attacking the electric grid enables an adversary to strike at the technological and societal Achilles Heel of U S military and economic power Blackout Wars likens this new Revolution in Military Affairs to Nazi Germany's Blitzkrieg strategy secretly developed and tested in low profile experiments during the 1930s sprung upon the Allies in 1939 1941 in a series of surprise attacks that nearly enabled the Third Reich to win World War II Just as the West was asleep to the threat from the Blitzkrieg so today U S and Western elites are blind to the looming threat from a Blackout War Fortunately where the Federal government is failing to protect the national electric grid State governments have legal authority and the technical capability

to protect their electric grids within their State boundaries and so spare their citizens from the worst consequences of a protracted blackout Maine Virginia Arizona Florida Oklahoma Texas Colorado and other States have initiatives underway to protect their grids and their peoples from the existential threat that is nuclear EMP attack and from other hazards that could cause a catastrophic blackout Ominously this necessary trend toward decentralization of a vital national security responsibility from the Federal government to State governments is eerily reminiscent of the late Roman Empire When Rome could no longer defend its cities from the barbarians the cities built walls to defend themselves Now that Washington cannot or will not defend the United States from nuclear EMP attack some States are building walls to protect their electric grids and peoples from the new barbarians Blackout Wars is the story of these heroic efforts by individual legislators and citizens to be Horatio on the Bridge defending their States and peoples against perhaps the greatest threat that has ever challenged civilization Most of all Blackout Wars is a handbook on why and how the States must meet this challenge and a clarion call to the States to defend themselves

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