



EMP and Our Food Infrastructure

EMPact AMERICA

prepare. protect. recover.

EMPact America is:

- non-partisan
- non-profit
- grass roots, for citizens dedicated to instilling awareness among Americans and fostering protection of America from a man-made or natural electromagnetic pulse (EMP) catastrophe.





National Geographic Explorer Series

ELECTRONIC ARMAGEDDON

Selected Clips

Play National Geographic Video

Prepared for Disaster

Smart Approach

or

Doom and Gloom

Preparedness was Respectable

**Aesop's Fable:
Grasshopper and Ant**

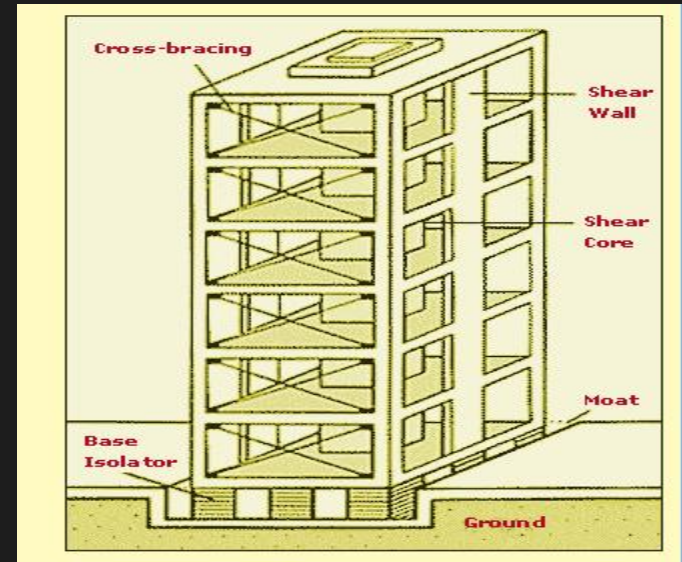


**English Fairy Tale:
Three Little Pigs**



Preparedness is Required

Earthquake Standards



Fire Prevention Codes And Equipment



Automobiles



And if Protection Fails...

INSURANCE - WARRANTY

Federal Overview



- 2001: EMP Commission Formed
- 2004: Executive Report Released
- 2008: Final Report Released
- 2009: Sub. Comms. of House Homeland Security and Energy and Commerce Committees hold hearings –

introduced draft legislation: HR 2195 and HR 2165 – cyber
transformed into HR 5026

Federal Overview



- 2010: Energy and Commerce Committee introduces HR 5026 – The Grid Reliability and Infrastructure Defense Act (“GRID Act”)
 - unanimous consent
 - In Senate as S 1462 (cyber only threat)
- 2010: Homeland Security Committee recommends setting up new committee continuing EMP Commission work
 - recommends adding to its appropriations bill (add Title VII to HR 4842) - now in S&T – to be added

NYS Legislation



- **TITLE OF BILL:** An act to create a commission to be known as the New York State EMP Critical Infrastructure Protection Commission.
 - S. 7699 - A. 10953

PURPOSE OF THE BILL: To create the New York State EMP Critical Infrastructure Protection Commission

- identify steps that it believes should be taken by New York State to protect its civilian systems from an (EMP) event.

Calls for NYS Action



- Multiple municipal organizations in New York State, including county and state wide organizations, have passed resolutions requesting immediate action to protect their citizens against EMP.
- Erie County Association of Governments
- Village Officials Association of Erie County, NY
- New York State Association of Towns (representing 932 towns across the state)

Food Infrastructure

EMP COMMISSION REPORT ,2008 CRITICAL NATIONAL INFRASTRUCTURES

Chapter 7. Food Infrastructure

EMP can damage or disrupt the infrastructure that supplies food to the population of the United States.

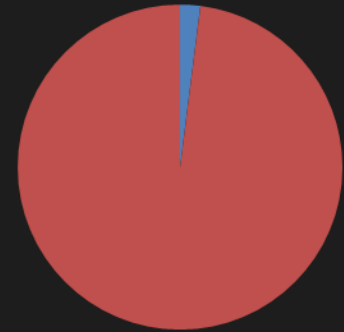
Recent federal efforts to better protect the food infrastructure from terrorist attack tend to focus on preventing small-scale disruption, such as would result from terrorists poisoning some food.

Yet an EMP attack could potentially disrupt the food infrastructure over a large region encompassing many cities for a protracted period of weeks to months.

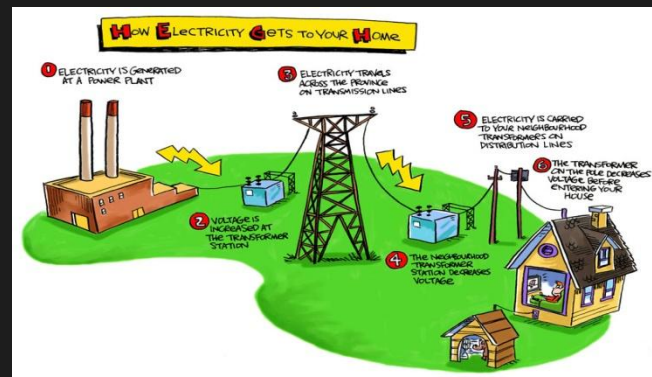
CRITICAL NATIONAL INFRASTRUCTURES

Chapter 7. Food Infrastructure

transformation of the United States from
a nation of farmers to a nation where less
than 2 percent is able to feed the other
98 percent and supply export markets ...



...Much of the technology for food production directly or
indirectly depends upon electricity, transportation, and other
infrastructures.



CRITICAL NATIONAL INFRASTRUCTURES

Chapter 7. Food Infrastructure

The distribution system is a chokepoint in the US food infrastructure. Supermarkets typically carry only enough food to provision the local population for 1 to 3 days.



Supermarkets replenish their stocks on virtually a daily basis from regional warehouses that usually carry enough food to supply a multi-county area for about one month.



CRITICAL NATIONAL INFRASTRUCTURES

Chapter 7. Food Infrastructure

The large quantities of food kept in regional warehouses will do little to alleviate a crisis if it cannot be distributed to the population in a timely manner.

Distribution depends largely on a functioning transportation system.

The Stafford Act should be amended to provide for plans to locate, protect, and distribute existing private and government stockpiles of food



Emergency Response Plan For Food

Many plans depend on reaction at the time of a disaster to procure and distribute food.

Haiti



Hurricane Katrina



Food Distribution Emergency Response Plan

Working Group



Emergency Response Plan For Food

State Emergency Management Conference, September 28, 2009
Food Distribution Emergency Response Plan – Working Group

Operation Concepts:

- Define real time emergency information execution between government and private sector (power, roads, general info)
- Attempt to define methods to acquire food distribution sector resources for mass feeding for emergency feeding donation or point of distribution of food and commodity dissemination for a fee. (May include food, water, gasoline, other products)

EMPact America Feeding Project

Elma Model

Plant Stored Inventory of Finished Product – Utilize for emergency response feeding programs

Plant Stored Inventory of Ingredients – Utilize for emergency response feeding programs

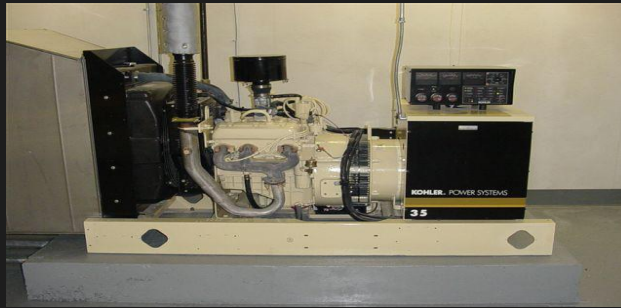


EMPact America Feeding Project

Elma Model

Plant hardening to preserve and protect inventories.

Generators



Equipment



Gas Supply



EMPact America Feeding Project

Elma Model

Develop water supply capabilities; existing or backup

Tank Refills



Local Tanker Fleet



Alternate Sources



EMPack America Feeding Project

Elma Model

Develop economical, long lasting food stores that can be utilized in times of major disaster



Basic supply of fortified dehydrated food: 1300 calories
Individual Cost of \$62 per year for basic meal

WHAT CAN YOU DO?

Learn about EMP and other risks our society faces and actively urge action by your governing leaders to protect and have emergency supplies of the major resources and infrastructure we need to survive

Partner with your community and identify resources you have

Develop your own personal plan and have life sustaining resources available for major emergencies.

Spread the word to others

