

# What the Louisiana Grid Coalition is doing -

## Importance, Concerns, & Simulation in process,

Henry Newton, P.E., M.B.A & IEEE member

*Abstract:* -- -- Aug 11, 2018 in the afternoon

Even an EMP (electromagnetic pulse) attack from a single 10-kiloton nuclear weapon could cause cascading failures which could black out the U.S. Eastern Grid for months or years, and devastate the civilian economy. Visit [www.lagridcoalition.org](http://www.lagridcoalition.org) for many links to EMP information/data.

We are doing EMP numerical simulation to verify a Thesis document done in 1974 by Terry C. Chapman – Catalog Number **AD 777841** -- of the US Air Force College Post Grad Program (AFIT).

### A Three legged stool to use to make your town/area secure& safe in your mind.

**1<sup>st</sup> leg.** = A Small town in New Mexico evaluated, **AD A023927** EMP effects on a rural area elect system USAF -- AFIT - (Please implement it)

**2<sup>nd</sup> leg.** = Dr Baker's **Mil Std 188-125** document with A thru C appendices

**3<sup>rd</sup> leg.** = Numerical Simulations at: **GitHub coding**

<https://github.com/LAGridCoalition/HEMP-Modeling> and Simulations/documents in

Google Drop boxes <https://goo.gl/7aJqj4> = 5 docs at 90% done &-

<https://goo.gl/KYr6fd> = 50 meg of EMP docs & Simulation tests

& <https://goo.gl/caE8vq> = video & You must copy –not click-URL into your web

address bar: - <https://goo.gl/71bBVt> = Entire Huntsville AL presentation materials used.

### Important notes:

A. Critical materials and methods in advanced weapons are not mentioned in 2 AFIT

Thesis PDFs & Gas boosting is not mentioned. eg 1<sup>st</sup> and 2<sup>nd</sup> generation weapons only.

B. We verified the 6448 V/M in Thesis AD 777841 - Terry Chapman.

C. Reverse engineering methods were required to verify data including inputs.

D. AFIT will cooperate with us much more if we can receive **FOUO** information.

Please research Seth Baum Fortran Fortran works that uses the 'finite difference time domain (FDTD) method that is emerging as the most popular Math technique due to its conceptual elegance and the completeness of the results it produces and Dr. Carl Baum PhD **technical notes**. in New Mexico. Note; the college at <https://www.odu.edu/vmasc> & how they make \$10M/year doing what we are in the process of completing for free. & see <https://ARA.com> also.