



## **EMP Triage Assessment™ by Instant Access Networks, LLC**

IAN, LLC provides a quick triage approach to business continuity assessment of electromagnetic pulse (EMP) on critical infrastructure. IAN has evaluated facilities that include production facilities, data centers, communications networks, government and mobile facilities.

The EMP Triage Assessment™ for protection from manmade and natural EMP includes a three part approach to your entire organization's vulnerability. The first covers the quick and inexpensive (often free) things you can do immediately to protect your infrastructure. The second area is the middle ground that covers improvements you can make at moderate effort and cost. IAN accomplishes this by bringing in nationally accomplished related experts to quickly assess your environment and provide a consensus report so you can determine what steps you can take and how to prioritize them. The third area will cover those things that you may not be able to afford to protect now but can address through "work-around" recommendations. Here is what is included in the assessment:

### **Site visit:**

- 1) Two days of site visits by 4 experts (manmade and natural EMP, test techniques, utilities, system integration)
- 2) Physical testing of one sample building, factory or network facility
- 3) Meeting with key facilities operators, engineers and business leaders
- 4) Quick meeting of local utilities' facilities and other relevant organizations

### **Report:**

- 1) Overview of vulnerabilities
- 2) Test results mapped against IAN 4 level EMP protection range
- 3) An overview of quick improvements and actions (Triage Step 1)
- 4) Recommendations for mitigation (Triage Step 2)
- 5) Recommendations for "work-arounds" for items unobtainable quickly (Triage Step 3)

**Client requirements:**

- 1) Sign-off by CEO
- 2) All meetings of outside utilities arranged to occur during the two day visit

**Cost:** \$30,000 plus travel and lodging

The results can be integrated into your continuity of operations plan meeting recommendations of NFPA 1600, the fire code for business continuity that covers scenarios for EMP events.

**Fact-based mapping against a relevant EMP rating system:** Your assessment will show how your specific facility or community may require different levels of protection depending on the importance of the system element being protected and its vulnerability. Instant Access Networks, LLC devised the Four-level EMP Rating System™ to show ranges of protection that may be relevant to various elements (power, data, communications) in a 4 level system-wide protection method where level three meets or exceeds various MIL SPECS for EMP and TEMPEST requirements:

IAN LEVEL	Base Shield	Compare to MIL SPEC 188-125		
		1KHz- 10 MHz (ea 20 dB is a factor of 10)	10 MHz-1GHz	1GHz-10GHz (-10 series only)
EMP 4	140 dB	60dB above MIL SPEC to 1KHz	140 dB (60 dB above MIL SPEC)	140 dB
EMP 3	100 dB	20dB above MIL SPEC to 1KHz	100 dB (20 dB above MIL SPEC)	100 dB
EMP 2	60 dB	20dB below MIL SPEC to 1KHz	60 dB (20 dB below MIL SPEC)	60 dB
EMP 1	30 dB	50dB below MIL SPEC to 1MHz	30 dB (50 dB below MIL SPEC)	30 dB

**Team Quality:** IAN and its staff also make use of industry consultants that have led the field in EMP and systems integration research, development and operations. They are among those who can be scheduled to participate in the assessment:

- Dr George Baker, James Madison University Institute for Infrastructure and Information Assurance (Cyber and EMP Security)
- John Kappenman, Storm Analysis Consultants (Space Weather and Utility Assessments)
- Dave Fromme, SARA Inc (Testing)
- Bill Kaewert, SENS, LLC (Standby Power Generation)

**Resource and Financial Assistance:** IAN also can show how infrastructure protection can be funded with outside grants and investment. Additional information and resources can be found in the white papers section of [www.stop-EMP.com](http://www.stop-EMP.com).

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