



More Than Just Another DATA CENTER

By Linda J Morrow, Marketing Communications Supervisor, Mitsubishi Electric Power Products, Inc. UPS Division



There is no denying that our depenidentity theft.

One threat to data security that may not dence on electronics as a society be- be common knowledge to the masses is comes greater with each passing day and that of ElectroMagnetic Pulse, or EMP. drives the need for data storage, and Simply put, an EMP is a sudden blast of therefore, data centers, upward. Also on high energy electromagnetic radiation that the rise are the number of ways that data can originate from two basic sources: socan be compromised. Cybercrime has lar storms or man-made weaponry. A become the fastest growing cause of data crippling solar flare and resulting storm center outages and customers of retail gi- can be expected to occur once every 100 ants Target and Home Depot along with years, and the last one took place in 1859. the US government's Office of Person- Man-made weaponry falls into two nel Management and the Department of camps: IEMI (Intentional ElectroMag-Defense know all too well the pain of netic Interference) weapons, and HEMP (High altitude ElectroMagnetic Pulse)

trailer. Far more dangerous is the latter reaching energy waves vast distances underneath. An EMP is capable of shorting out electrical circuits and electronics importance in selecting a UPS vendor. within its line of sight, so the higher up the explosion, the greater the destruction UPSs and began noticing that it was not unbelow. Obviously, EMPs could have a usual for one of their UPSs to crash about devastating impact on critical infrastruc- every third time a storm passed through. tures making up our domestic power grid. stroyed, and recovering from such a downtime is excruciatingly painful for both calamity would take months if not years. Because of the sheer destruction EMPs can cause, the US government was concerned enough to establish an EMP Commission a number of years ago. Many utilities are under the impression that this is a national security concern. However, Congress has yet to pass legislation regarding protecting against EMPs, and ownership of this issue remains unclear.

Lifeline Data Centers is a company on the forefront of technology and is currently building an EMP-ready data center in Ft. Wayne, Indiana. To be truly protected against the ravages of EMP exposure, a data center must undergo extensive building and testing requirements as well as certification procedures. A physical shield is required in side walls, floors, and ceilings... "it's similar to building a box around your data center," explained Alex Carroll, co-owner of Lifeline Data Centers. Power and signal line filters and RF- & ruined inventory. In addition, they can tight doors are supplemental ways to add experience indirect costs such as a drop in protection against EMPs.

data center, and electromagnetic pulse is their brand. On the data center side, an outa very real threat to uptime and needs to be taken seriously. Michael Caruso, director of government and specialty business development at ETS-Lindgren stated, "The common response is, 'It can't happen'." He continued, "It can and will happen." Lifeline Data Centers is a leader in data center compliance, uptime, and innothe first half of 2017. It will be their third location in the state of Indiana and will

counting for twenty-five percent of all

The true value of a data center lies in its upclients and the data center staff alike. De-



Alex Carroll, co-owner of Lifeline Data Centers

pending on the business they are in, clients can incur a number of tangible costs, such as lost transactions, a drop in productivity, employee morale, customer good will, lost Uptime is the number one priority for a business opportunities, and even damage to age raises stress levels and typically requires extended working hours of all involved trying to resolve the problem and keeping clients informed of their progress.

Lifeline reached the breaking point with their supplier when one of their UPSs literally blew up when it went into bypass mode. Not surprising, Lifeline was anxious vation, and is forging ahead with its Ft. to make a change in their UPS supplier -Wayne facility and expects it to be online one that, in Carroll's words, "could stand up to a punch". They wanted a partner, not just a supplier, who could furnish a highly serve as their flagship data center. As reliable product consistently and on time.

weaponry. The IEMI variety is available such, they are being very selective in the The day after the catastrophic UPS failure, now and can range in size from fitting in equipment being incorporated into the fa- Carroll visited Mitsubishi's home offices in the palm of your hand to the size of a cility. Uninterruptible power supplies Pittsburgh and the following day had a Mit-(UPS) are one of the core components of subishi replacement UPS up and running in category. As its name indicates, a HEMP mission critical infrastructure in a data cenweapon is intended to detonate high in the ter; UPS failure is the number one cause the switch to Mitsubishi as their choice of atmosphere, radiating damaging and far of unplanned data center outages, ac- supplier in 2008 and has not seen an outage since. In Carroll's own words, "In such events. Clearly, reliability is of key large part, because of a Mitsubishi partnership, Lifeline has not lost a customer ex-Lifeline had been using a competitor's cept to bankruptcy or mergers over a 15+ year history."

It is interesting to note that Carroll first heard of the reputation of the Mitsubishi UPS brand from a service provider. The High voltage transformers would be detime and when it suffers an outage, the broad view of the Mitsubishi units in the industry is that they are extremely reliable, and that as long as they are properly maintained, they will deliver continuous troublefree operation. To date, Lifeline has a total of 14 Mitsubishi UPSs online and will be adding more for the new Ft. Wayne facility. "For me, Mitsubishi is the only option out there capable of providing the high level of protection that will match the rest of the structure," stated Carroll.

The Ft. Wayne facility will be one of the first EMP-ready commercial colocation data centers in the US.

About Lifeline Data Centers

Since 2001, Lifeline Data Centers has provided data center and office real estate to companies who require 99.995% uptime, connectivity, and scalability. Lifeline is a leader in compliance, uptime, and innovation and was recognized as one of the 20 Most Promising Data Center Solution Providers in 2016 by CIOReview. | lifelinedatacenters.com

About Mitsubishi Electric Power Products, Inc.:

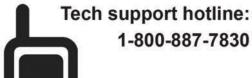
Since 1964, Mitsubishi Electric has manufactured precision-engineered, high quality uninterruptible power supplies (UPS) to protect mission critical equipment during times of power instability. Mitsubishi Electric is an industry leader in designing and manufacturing reliable, environmentally conscious UPS systems to extend uptime, prevent data loss and protect against power surges. Mitsubishi Electric Power Products' UPS division offers systems in both single- and multi-module configurations and a broad range of kVA capacities. Mitsubishi Electric Power Products, Inc. is a U.S. affiliate company of Mitsubishi Electric Corporation. It serves the North American power systems, rail transportation and water treatment industries with electrical and electronic products, systems and services. www.meppi.com.



Doesn't it make sense to leave maintenance of your UPS to the people that know it best? The Mitsubishi Service group offers a variety of service options that will keep your systems running at peak performance 24x7x365.

Available Services:

- · Start-up/Installation
- Preventive Maintenance
- Extended Warranty
- · Thermographic Imaging
- · Factory and On-site Testing
- · Load Bank Testing
- · Emergency Services



Mitsubishi Service... Unequaled. Unsurpassed. Uninterrupted.



