

EXACTER® Outage-Avoidance System

Press FAQ & Fact Sheet

What is EXACTER?

- EXACTER is a power outage-avoidance system used by electrical utilities to identify power line equipment problems before an outage occurs.

Why is EXACTER a relevant newsworthy product?

- Power outages and power grid reliability are the top mandate in the electrical utility industry.
- 6,000,000 outages occur in the U.S. each year.
- Outages have a \$79 billion impact on the U.S. economy and a \$750 million direct impact on electric utilities.
- Experts agree that outages will only increase in the years ahead due to the aging of our electrical distribution system.
- 31%, or 1,800,000 outages/year could be avoided through the early detection EXACTER provides.

Is EXACTER a new technology solution?

- Yes.
- It is the only system of its kind anywhere in the world. EXACTER's patent-pending technology provides a level of reporting information never before available — specifically...identifying the significance of the problem itself, the GPS coordinates of the problem, and in some cases, what type of equipment is malfunctioning.
- One of the things that make EXACTER both unique and more useful to utilities is that it "discriminates" actual problems from normal electrical noise over the power lines. In other words, it's the only system or technology available that reports "only the problems."

What are utilities using now to detect outages before they occur?

- Right now, there is no viable solution in use. Utilities are hoping their preventive maintenance programs will help minimize the problem — even so, 31% of all outages still result from undetected problems on the distribution lines.
- In the past, there have been other systems that monitored and identified electrical disturbances. These systems were expensive to purchase and required full-time engineers to use. Engineers would have to spend significant amounts of time to review and analyze large amounts of information in order to “weed out” the true potential problems. Such systems have been deemed cumbersome, too expensive, and not practical by electrical utilities and there are virtually none in operation today.

Is the EXACTER® Outage-Avoidance System something that utilities can actually implement?

- Yes. It has been designed so it can be implemented immediately — without a lot of the obstacles that slow down new technology such as additional manpower, capital investment approvals, training, or safety issues.

Why will it be able to be deployed quickly by utilities?

- In addition to being a significant technology breakthrough, EXACTER makes its pre-emptive, outage-avoidance technology accessible for utilities of all sizes because...
 - No expensive capital investment is required. (EXACTER is rented.)
 - There is no dedicated person or “new hire” required to use it. (EXACTER is completely automated.)
 - There is no computer hardware or training required to view reports. (Results are available on the Web.)
 - There are no new vehicles or equipment required to survey power lines. (EXACTER works in any vehicle.)

Has EXACTER been used by utilities to successfully identify potential outages?

- Yes.
- The first EXACTER power line surveys were completed in 2006 for two cities in Ohio. Both surveys found “real” threats that the city utility maintenance departments were able to address before an outage occurred.
- Multiple units are now in the field and EXACTER surveys are being conducted at various utilities across the country.
- Quote from Utility End-User: “We used EXACTER in a short, 14-mile survey of our system. One of the findings was a three-phase cutout that was tracking to the pole. If the cutout had failed, we would have had an outage for half of our city. With the data from EXACTER, we were able to locate the cutout and remove it from service with a minimum of effort. As we removed the cutout from service, it literally fell apart in our hands. We were that close to a major outage.” — **Midwest Utility Maintenance Supervisor**

Will outages decrease?

- Outages from failing equipment will continue to increase from system aging and operating stresses. With EXACTER, utilities can find failing equipment before a power outage results and decrease the incidence of equipment-failure-related outages.

How does the EXACTER® Outage-Avoidance System work?

- The EXACTER® Outage-Avoidance System includes a sensor mounted in any vehicle, GPS coordinate technology, and an intelligent database reporting system that logs, analyzes, and maps reported problems. As that vehicle travels, readings are taken and problem components are identified. Mapped problem locations and prioritized information can then be accessed via a Web Information Portal for preventive maintenance scheduling.
- EXACTER continuously surveys the electrical system without equipment installation or personnel resources. It tells maintenance personnel where to find actual problems.

- **An Intelligent Database of Known Failure Signatures** - The predictive failure signatures discovered by EXACTER are logged into a Knowledge Database. As follow-up reports come back to the database, these electrical signatures are logged and profiled which allows the systems' intelligence to grow and provide more precise identification about the nature of specific problem reports (signals) in the future.

Exacter, Inc. the Company

- **Exacter, Inc.** began in 2006. Incorporated in the State of Ohio. Located in Columbus, OH. Principles John Lauletta, President & CEO, and Larry D. Anderson, V.P. of Operations. Both men come with extensive background in serving the utility industry in the area of power measurement, instrumentation, and transmission & distribution solutions.
- **Exacter, Inc.** was selected to receive investment funding from the North Coast Angel Fund in January of 2007. They were the only company of 125 making presentations that was awarded capital from the organization.

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