5 Ways your Annual Maintenance Contract (AMC) extends the life of power systems

Just think… will your newly-installed equipment last as long as the manufacturer says? One should never count on it. There are a variety of factors that can significantly cut into your equipment's lifespan. Based on our experience in the field, we've listed the top five ways power systems preventative maintenance can uncover weaknesses.

From a myriad of internal components to the environment in which they're kept, Power systems are as complex as one can think of. Just have an inside look! Without the proper maintenance, problems are likely to arise anytime giving you a unscheduled nightmare. Yearly routine maintenance checks can ensure your facility runs seamlessly and help prevent costly downtime.

5 Ways Preventative Maintenance can save you from a potential catastrophe

1. Minimizes downtime due to battery failure – The number one cause for UPS failure and loss of power is due to sudden battery failure. Fortunately, battery failure can almost always be predicted by having your batteries inspected at least twice per year. The no of inspection in year should increase with the age of the batteries.

Preventative maintenance includes visual inspection, thermal image scans and comprehensive testing with state-of-the-art battery analysers to check impedance, AC ripple and other tests to determine the health of your battery system. One can also do a discharge test and check the battery voltage stability to determine the condition of the batteries in no time.

If the preventive inspection & tests show any irregularities, we can help determine if your battery string is failing or perhaps has an open cell or short. Then we'll help to provide a recommendation on when you should replace your batteries.

2. Identifies potential points of failure – In addition to your UPS batteries, many other internal components are also prone to failure. During a Preventative Maintenance Inspection (PMI), a trained technician will investigate and test these internal components, including:

*Fans
*AC and DC Capacitors
*UPS Internal Connections
*Air Filters
*Power Supplies
*Contactors
*Sticking or Welded Relays and More

3. Identifies poor environmental conditions – A poorly designed or maintained electrical infrastructure can cost your facility thousands of rupees in wasted energy every year. That's why mission-critical facilities should be constructed in a way that the walls, floor, doors and ceiling, are hermetically sealed.

Not all facilities are that lucky, though. Often, we see dirty or caustic environments and exposure to the external dust elements.

A maintenance provider should also be a solutions provider, identifying inefficiently operating equipment, dangerous or poor environmental conditions, and offering appropriate recommendations for your facility and application.

A periodic cleaning of the system and the installed site can enhance uptime drastically and reduce downtime with its consequential monetary losses considerably. Sometimes, it can add significantly to the bottom-line of the organisation.

4. Ensures generator functions properly – Although most generators are designed as a secondary source of power, they must be properly maintained to function when needed.

Similar to an automobile, a generator's engine depends on a battery, which requires maintenance to ensure optimal performance. The most common cause of a generator system failure is battery failure, which once again stems from little or no maintenance and often age.

Maintenance testing also ensures the generator is properly sized, configured, and maintained to support the power systems, AC and mission-critical infrastructure. While this is not part of a power system maintenance inspection, it is critical that your facility maintains the infrastructure supporting your critical loads.

5. Ensures faster downtime response – Unfortunately, no matter what the level of preventive maintenance, power outages can and do happen. If your power system experiences a sudden power outage, it is the time to respond to the failure will be the essence to save you millions. That's where it is essential to have an Annual Maintenance Contract (AMC) with the provider that is familiar with your equipment and facility, who can respond to your emergencies with urgency and confidence. Having a solutions provider on your side is crucial in getting your operations back online and minimizing disruption.

Turn the five potential points of failure into five ways an AMC can save the day. Something as simple as routine preventative maintenance checks each year can ensure your facility, power systems and your business keep running smoothly.