Are you sure your backup power supply system ready?

PowerLogic® EPSS automates monitoring and reporting with positive results

PowerLogic® Emergency Power Supply System

For Healthcare Monitoring and Test Reporting

Make the most of Your Energy℠

SQUARE D by Schneider Electric

Schneider Electric

"Why isn't the generator starting? We performed monthly generator tests. What is the problem?"

Common Issues Associated with Manual Testing

- Lost manpower due to physical requirements of manual testing.
- Insufficient loading during entire test is difficult to detect by manual inspection only.
- Misinformation due to not monitoring actual generator operating temperatures.
- Ascertaining precise timing of transfer switch is not possible manually.

How certain are you that your backup power system will perform in the event of an actual emergency?

Improper routine testing is one of the leading causes of generator nonperformance. Exercising a generator below recommended loading can actually reduce its reliability and result in unburned fuel and/or carbon build up in the exhaust system. This condition is known as “wet stacking.” Its presence is readily indicated by black smoke during engine-run operation. Wet stacking, left undetected, could affect the reliability of the generator engine and make an emergency power system useless.

Effectiveness. Efficiency. Reliability.
Traceability. Liability. Safety.
SERVICE. SUSTAINABILITY.
Maintenance.
Testing. Inspection.

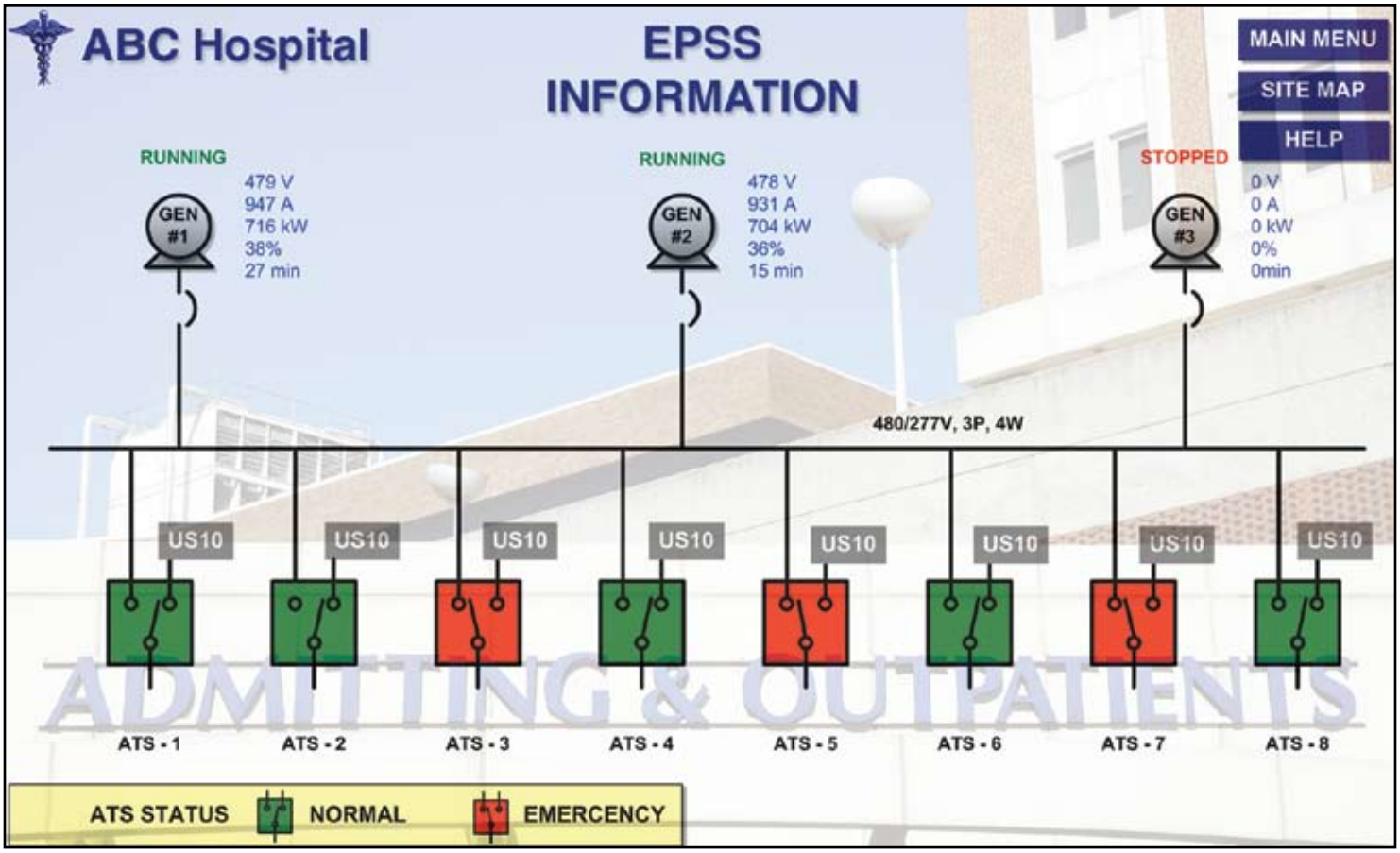
Ever stop to think how much your environment of care is riding on the reliability of the emergency power supply system (EPSS)?

You might be saying “yes, of course, we invested in a backup system!” But just between us, we know there is more to an emergency power supply system than just having one installed. Whether motivated by life safety, critical patient care, or essential equipment, , critical power facilities generally agree in principle that in order to protect essential loads, there must be an effective maintenance management plan that adheres to the NFPA 110 (Joint Commission standards) and includes:

- Routinely exercising emergency equipment.
- Permanent record of test performance and compliance.

Ensuring that the generator is properly loaded to sufficiently reach the recommended operating temperature for the entire run is an often over looked detail of the emergency power supply system management plan. Without verification, over the course of time, light loading while exercising the generator will eventually create a condition that may actually compromise reliability, impair starting and reduce the life of the generator. Why? Because if proper operating temperatures are not met and kept:

- Exhaust emissions containing unburned fuel can get into the generator’s combustion chamber.
- Blow-by gases and oil are forced into the pistons since the piston rings are not capable of fully expanding at lower temperatures.



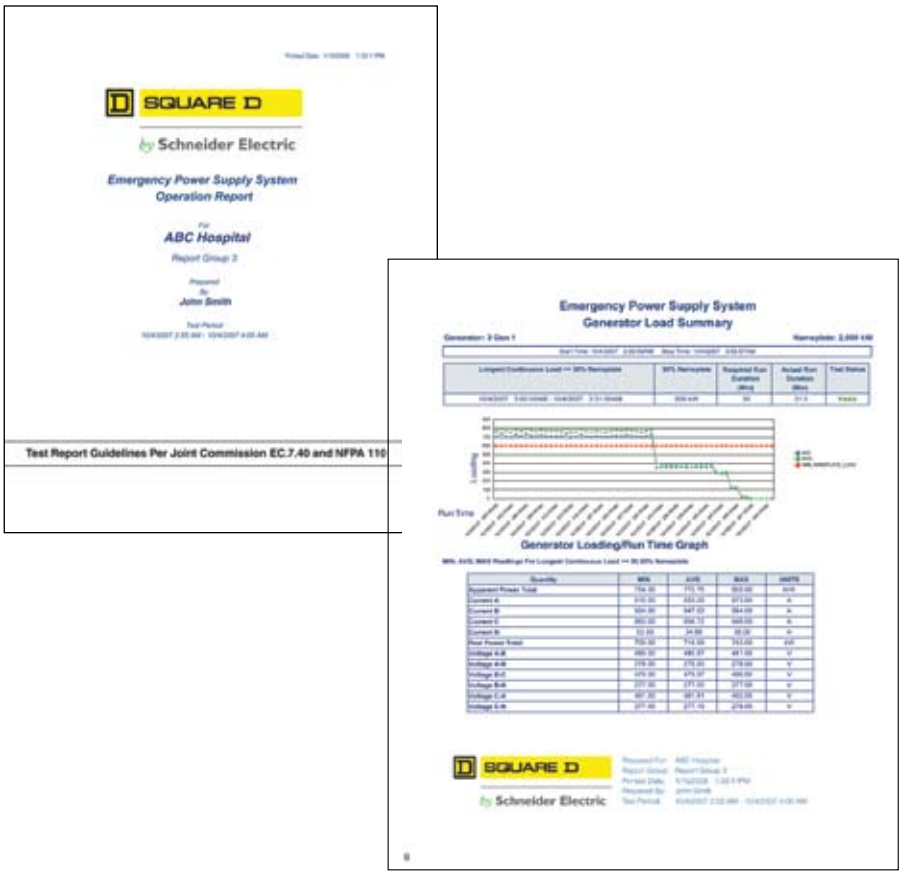
PowerLogic software with EPSS test reporting module gives real time status views that mimic your system plus provides data collection and reporting to document proper routine emergency power supply system maintenance.

PowerLogic® systems automate monitoring and reporting with positive results

"Accurate information gives me the edge I need to make sure our power systems perform – even in emergencies."

Documentation helps to identify emergency power supply system problems during tests, rather than experiencing failures under emergency situations. To streamline routine emergency power supply system maintenance and ensure that operational testing is producing the desired results, many facilities are opting for PowerLogic monitoring systems with automatic emergency power supply system reporting and rely on it as an indispensable tool. Generator and automatic transfer switches are still exercised monthly by operational personnel, but while testing is being conducted, the essential status and measurements are retained within the monitoring device onboard data logs throughout the testing process.

Upon completion, the system uses automatically collected data as well as accepts user entry of engine information and observations, then generates an emergency power supply system report, giving accurate conclusive results for Joint Commission compliance documentation and peace of mind that the mechanical and electrical systems tests have been properly executed.



Transfer Switch	Transfer Time (Sec)	In Emergency (hh:mm:ss)
3 ATS 01	0.3	00:45:12
3 ATS 02	15.3	00:46:57
3 ATS 03	1.3	00:42:11
3 ATS 04	32.4	00:45:54
3 ATS 05	0.3	00:45:12
3 ATS 06	0.3	00:42:12
3 ATS 07	34.5	00:49:19
3 ATS 08	34.4	00:15:31
3 ATS 09	6.5	00:49:18
3 ATS 10	0.3	N/A
3 ATS 11	6.5	00:47:39
3 ATS 12	0.3	00:45:12
3 ATS 13	0.3	00:42:12
3 ATS 14	34.4	00:47:11
3 ATS 15	34.4	00:13:25
3 ATS 16	34.3	00:47:11
3 ATS 17	6.5	00:49:18

Streamline testing, gain peace of mind and know emergency power supply systems have been properly exercised.

System Benefits

Automatic onboard data collection

- ✓ Reduces required manpower and documentation time
- ✓ Eliminates errors due to manual readings
- ✓ Provides accurate recording of loading levels throughout test

Automatic reporting

- ✓ Expedites performance verification
- ✓ Gives conclusive results proving testing compliance
- ✓ Increases confidence that tests have been conducted correctly

Report Highlights

- ✓ Generator loading pass/fail indication
- ✓ Minute by minute generator run table and trend plot
- ✓ Min/Max/Avg voltage and current readings during test period
- ✓ Generator run time information – engine hours, cool down, etc.
- ✓ Engine data -– manual or automatic collection of exhaust gas temperature, oil pressure, water temperature, DC Amps and DC Volts
- ✓ Manual entries incorporated into report – observed measurements and comments
- ✓ Event log showing date/time stamping of ATS and generator status
- ✓ Configurable pass/fail option to indicate if emergency power transfer occurred within 10 seconds

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