

### ***Is Your Facility Prepared for the Next Emergency?***

#### **PUBLIC SAFETY**

Backup power engine-generators can protect public safety and are especially crucial to industries such as:

- Hospitals & Emergency Care Facilities
- Nursing Homes & Assisted Living Facilities
- Medical Office Buildings & Ambulatory Surgery Centers
- Emergency 911 Centers for Police and Fire Responders
- Water and Wastewater Treatment Plants
- Television Stations
- Essential Public & Municipal Facilities

The National Electrical Code 517-13, as well as state codes, recommend and/ or require all hospitals and critical care facilities to have back-up power systems that start automatically and are functioning at full capacity within ten seconds after power failure, and most State Building Codes require emergency facilities to operate during disasters, such as tornados, hurricanes or earthquakes.

#### **Contact Us**

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Staff members of HSA Engineers & Scientists have faced the lack of back-up power generation and its affect on our business first-hand after losing power during Hurricanes Charley and Wilma in 2004 and 2005, respectively. For our firm it meant lost business, lost time, and extreme inconvenience to both our clients and our staff, but for many industries loss of power can have dire and even life-threatening consequences.

HSA Engineers & Scientists has provided the design of back-up power generation systems for many of our clients' facilities including medical, emergency, municipal and broadcasting facilities.

#### **WINK-TV, Fort Myers, Florida**

One such client is WINK-TV of Fort Myers Florida. As a subconsultant to Christopher J. Lee Architects, Inc., HSA provided mechanical and electrical engineering design services for an upgrade to the WINK-TV facilities, including a new emergency diesel-powered engine generator set to provide back-up power.

Among other local stations, WINK-TV acts as a key public information provider during power outages and severe weather. Residents throughout its coverage area including nine counties, Lee, Collier, Sarasota, Hendry, Glades, Charlotte, DeSoto, Highlands, and Hardee, rely on WINK-TV for up-to-the-minute coverage on hurricanes, tornados, brush fires, and other storm and emergency events.

According to Keith Stuhlmann, Director of Engineering at WINK-TV, "Back-up power generation for our facility is always a key component, and we will not compromise this aspect. When we began to plan the new Studio Expansion, back-up power was at the forefront of the project".

#### **City of Fort Myers City Hall, Florida**

The City of Fort Myers City Hall is the hub of the City's operations, housing many vital departments including the Mayor's office, the City Manager's office, City Council Chambers and various other municipal divisions. During severe weather and power interruptions, it is imperative that City Hall continues to operate to ensure that its staff members can serve the community during critical times. HSA provided electrical and structural services to design a back-up power generation system to serve the entire building, a system that was critical to the City's operations during Hurricanes Charley and Wilma. In fact, the start-up of the system was completed just hours before Charlie hit on August 13, 2004, allowing City Hall to be the only building still powered in the City of Fort Myers in the hours immediately following the hurricane!



## UST/AST UPGRADES

New regulations from the Florida Department of Environmental Protection (FDEP) require that Underground Storage Tanks (USTs) and Above Ground Storage Tanks (ASTs), including storage systems for backup power generation, must be upgraded for secondary containment for storage tanks of the following sizes:

### USTs

> 110-gallons

### ASTs

> 550-gallons

The deadline for these upgrades is fast approaching. The FDEP has set forth the following completion dates:

### UST upgrades

**December 31, 2009**

### AST upgrades

**January 1, 2010**

**As a Qualified PSSC Contractor, HSA can help you:**

- **Avoid Steep Fines (\$10,000 per day per violation);**
- **Maintain Insurance Coverage; and**
- **Avoid risks associated with re-financing properties.**

HSA has a full understanding of these new regulations and our experience will assure your project's success using quality, cost effective measures. Please contact Mike Bishop or Karen Miller for more information.

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## Fire Stations & Emergency Operations Centers

The most essential facilities in any community, especially during severe weather events and blackouts, are the emergency services facilities that house fire responders, emergency medical responders, and law enforcement officers. HSA Staff members have designed back-up power generators for emergency response facilities including:



- Bonita Springs Fire Station #1 & #2, FL
- Estero Fire Rescue Administration & Emergency Operations, FL
- Estero Fire Station - Coconut Pointe, FL
- Fort Myers Beach Fire Station #32 & #33, FL
- Fort Myers West District Sheriff Substation, FL
- Golden Gate Fire Station # 73, FL
- Immokalee Emergency Management Station #12, FL
- Lehigh Acres Fire Station #4 & #5, FL
- Naples Fire Station #2, FL
- North Fort Myers Fire Station #1, FL

## Medical & Long-Term Care Facilities

According to a report issued by the Department of Health and Human Services, frail elderly residents who were evacuated from nursing homes in the Gulf States suffered more than the vast majority of those who were not moved during the 2005 hurricane season. According to the New York Times (August 18, 2006), the nursing home administrators who were interviewed for the report agreed "that an evacuation can cause physical and mental stress on nursing home residents and consequently is not necessarily the best course of action."



Adequate emergency back-up power is an essential component of any medical or long-term care facility's Emergency Management Plan to allow patients and residents to shelter in place during severe storm events, whenever possible. In addition, back-up power is needed to avoid interruption of surgery or critical care services during power outages.

HSA Engineers & Scientists has provided emergency power generation system design for various medical and long-term care facilities including:

- Bradenton, Senior Health Center, Bradenton, FL
- Cape Coral Imaging Center, Cape Coral, FL
- Dr. Lisa Zack, Naples, FL
- Gulf Coast Medical Office Building, Fort Myers, FL
- Lantz Ambulatory Surgery Center, Fort Myers, FL
- Lee County Medical Examiner's Office, Fort Myers, FL
- Moorings Park Assisted Living Facility, Naples, FL
- Naples Eye Surgery Ambulatory Surgery Center, Naples, FL
- Heart Family Health Institute, Port St Lucie, FL

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