

# Wolf Hollow Generation Station

First Fire



Exelon Generation®

# Wolf Hollow Expansion Project

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Wolf Hollow is currently constructing a 1,100 megawatt expansion to their existing generation capacity

- 1 MW can power about 200 Texas homes during peak demand.
- 1,100 MW has the capability of powering up 220,000 homes during peak load

Prior to full operations, site teams must conduct first-time events including gas line air and steam blow tests. These tests are required to ensure all operating systems are working properly and to optimize units prior to them going online

The Texas Commission on Environmental Quality (TCEQ) has granted Exelon Generation an Air Permit to begin operational testing at Wolf Hollow Stations of the new GE gas turbines to ensure the emissions complies with all state and federal ambient air quality standards

Testing is currently scheduled to begin on November 30th and could potentially conclude April 2017

Commissioning scheduled for summer 2017

# Required Testing

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**First Fire** - "First Fire" means that the gas turbine is started and accelerated to full speed. It also demonstrates that all gas turbine systems, including fuel delivery, ignition, and rotor dynamics, and its software are functioning properly. This process helps to ensure long-term safety of the equipment.

**What should we expect to hear or see during the First Fire testing?**

- The initial start-up of the combustion turbine may produce a reddish haze for brief periods of time.

**Steam blows** - Blowing steam through piping to remove debris from the system also tests the system for possible leaks, another measure to ensure safety

- Steam blow testing could last as long as five to seven days
- Silencers will be used to reduce the noise

**Gas Line Air Blows** - use compressed air to clean the supply gas lines. Compressed air is stored in a tank and released rapidly thru the gas supply pipe(s). The compressed air releases are very short in nature - typically 4-6 seconds. Hearing protection is required of employees during this process and it occurs approximately 30-60 days before first fire of the units. It is important to note we do not use natural gas during this process and that we release ONLY compressed air very quickly.

# Required Testing

## FIRST FIRE

is the first time fuel is ignited in a gas turbine after installation. It's a huge milestone that proves the fuel delivery, ignition, and acceleration systems works correctly, and the plant is ready to start making electricity!



Once the entire power plant is installed and ready to run, the operators **START IT UP!**

This initiates the turbine rotor to rotate at **27% speed** or **972 RPM**. This spinning causes air to move through the turbine and flush out any residual fuel fumes.

Once the turbine is clear, it slows down to **14% speed** or **504 RPM**. Fuel starts to flow and **IGNITION IS ACTIVATED!**

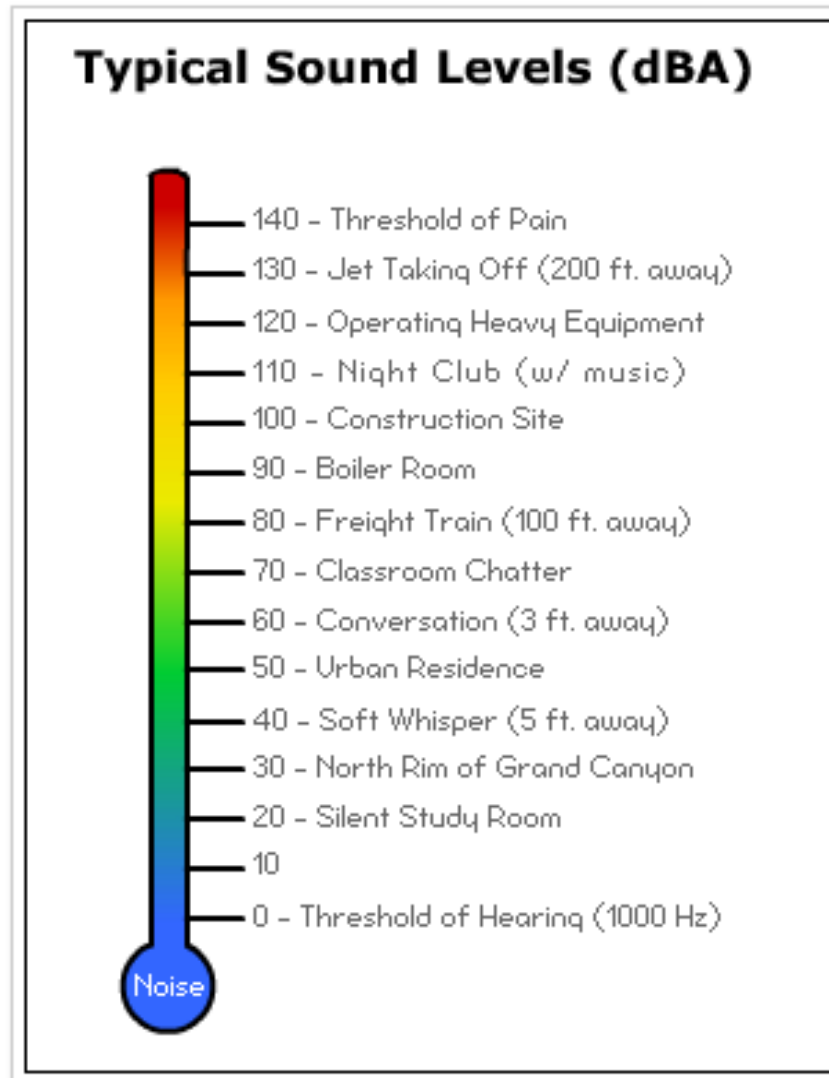
The hot air created by the ignited fuel makes the rotor spin faster and faster, up to **100% speed** or **3,600 RPM!** The gas turbine is now ready to start **PRODUCING ELECTRICITY!**

## Dry Silencers

<https://www.youtube.com/watch?v=M2I0wpXIS3s>

Exelon will monitor the emissions during these activities to demonstrate compliance with the permit(s).

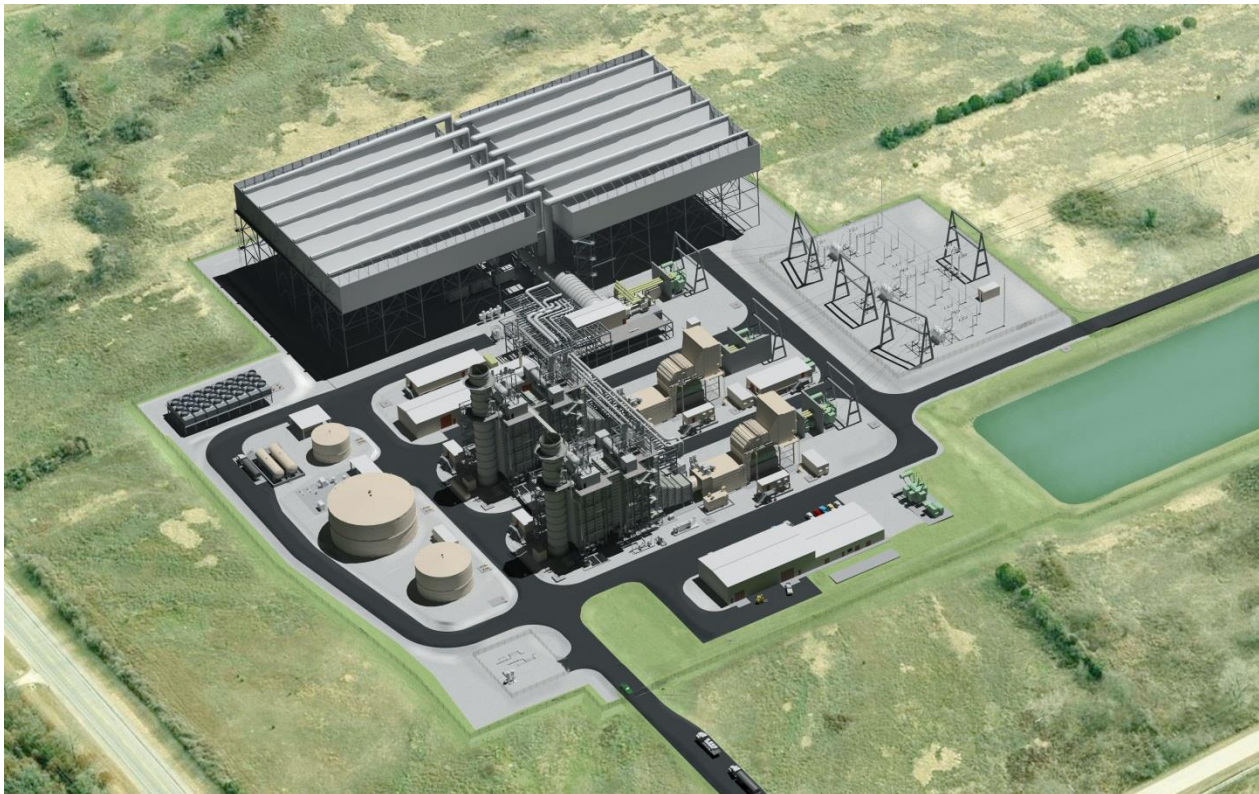
# Steam Blows – Noise Levels



# Community Concerns

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The testing of the units will not pose health, or environmental concerns or risks to the community  
Exelon complies with all applicable permitting to ensure testing is compliant within state and federal laws



# Community Outreach & Awareness

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**Has or will Exelon Generation take the necessary steps to ensure the public is aware of testing?**

- Yes, Exelon has and will continue to take a proactive approach and take extensive measures to notify the public in advance.

**Outreach will consist of:**

- Face-to-Face meetings
- Media Advisories
  - Hood County News
  - Granbury Chamber of Commerce Newsletter
- Emails / Text
- Door-to-Door Notifications - week testing begins



## Contacts During Testing

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