

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

December 4, 2009

Joey Lee Miranda, Esq.  
Robinson & Cole LLP  
280 Trumbull Street  
Hartford, CT 06103-3597

**RE: PETITION NO. 922 - DFC-ERG CT, LLC petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the installation of a Fuel Cell generating facility located at 1835 Hebron Avenue, Glastonbury, Connecticut.**

Dear Attorney Miranda:

At a public meeting held on December 3, 2009, the Connecticut Siting Council (Council) considered and ruled that this proposal would not have a substantial adverse environmental effect, and pursuant to General Statutes § 16-50k would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

- a) Erosion and sedimentation controls shall be installed consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, May 2002.
- b) Minimizing the extent of clearing along Chalker Hill Road and Hebron Avenue to the greatest practical extent possible.
- c) The installation of evergreens on the embankment between Chalker Hill Road and the proposed access drive and along the west side of the existing gate station.
- d) Submitting final construction plans to the Council prior to the commencement of construction.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition, dated November 5, 2009.

Enclosed for your information is a copy of the staff report on this project.

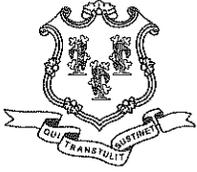
Very truly yours,

Daniel F. Caruso  
Chairman

DFC/RDM/laf

Enclosure: Staff Report dated December 3, 2009

c: Andrew J. Skok, DFC ERG CT, LLC  
The Honorable Susan Karp, Chairman Town Council, Town of Glastonbury  
Richard J. Johnson, Town Manager, Town of Glastonbury  
Kenith Leslie, Community Development Director, Town of Glastonbury



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Petition No. 922

DFC-ERG CT, LLC

1835 Hebron Avenue, Glastonbury

Staff Report

December 3, 2009

On November 5, 2009, the Connecticut Siting Council (Council) received a petition from DFC-ERG CT, LLC (DFC-ERG) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a combined Fuel Cell/Turbo-Expander energy system at 1835 Hebron Avenue in Glastonbury. The project was field reviewed by Council member Brian Golembiewski and Council staff member Robert Mercier on November 30, 2009. Others attending the field review included Joey Lee Miranda, Andrew J. Skok (DFC-ERG), Dennis Loria (DFC-ERG Consultant), and Jay Andruskiwec (Connecticut Natural Gas).

DFC-ERG proposes to install a 3.4 MW combined Fuel Cell/Turbo Expander energy system at an existing Connecticut Natural Gas gate station at the corner of Hebron Avenue and Chalker Hill Road in Glastonbury. The energy system consists of two fuel cell units that produce 2.8 MW of energy and a turbo expander unit that produces 0.6 MW utilizing pressure differentials within the existing gas pipeline infrastructure. The electrical energy produced by the system would be connected to CL&P's local distribution network through a 23 kV interconnection, providing an additional source of generation in the Connecticut market, identified by ISO New England as a constrained area. DFC-ERG has a long term contract with CL&P to provide the electricity.

The energy system has an efficiency rating near 60% with the turbo expander providing 10-14% more generation than a stand alone fuel cell unit without consuming additional fuel. Electricity generation will vary depending on daily and seasonal fluctuations in natural gas entering the gate station. The project was selected for funding by the Connecticut Clean Energy Fund Project 150, and is classified as a Connecticut Class I Renewable Energy source. The project would re-coup its cost outlays in approximately 15 years.

The existing gate station consists of a two brick cape-style buildings that house the metering/control equipment on a seven acre, mostly wood parcel. The Algonquin gas pipeline passes through the station. The proposed fuel cell facility would be installed north of the existing gate station, occupying a 0.14 acre area. Access to the proposed site would be from Chalker Hill Road.

The fuel cell unit, switchgear/transformer, water treatment and water tank components would be located within an approximate 85-foot by 75-foot fenced compound. The turbo expander and support infrastructure would be installed within the existing gate station compound. The fuel cell units are 14 feet in height. A single 18-inch diameter exhaust stack would extend to a height of 25 feet.

The project would use approximately 8,500 gallons of water per day, obtained from the municipal water system. The project would not discharge any wastewater. No water permits from the operation of the facility are required from the DEP. Air emissions of regulated pollutants from the project would be below applicable thresholds and thus the project would not require any state or federal air permits or air emission offsets.

The project would require the removal of 0.3 acres of woodland north of the existing gate station and east of Chalker Hill Road. Woodland would remain along Hebron Avenue, providing screening to passing vehicles. The proposed 10-foot compound fence would include green privacy slats to mitigate views from the northeast on Chalker Hill Road. The site is set behind a knoll blocking most views from residential areas southwest of the site. A residence directly west of the site access road is screened by existing evergreens.

The proposed project would not directly impact any wetlands or watercourses or any Federal or state endangered, threatened or special concern species. The project would have no effect on historic, architectural, or archeological resources listed on or eligible for the national Register of Historic Places. The projected noise levels from the project would range from 43 to 45 dBA at the nearest residences, less than the noise standard of 51 dBA.

DFC-ERG notified all abutting property owners of the project by certified mail and met with town officials. The Town did not comment on the proposal.

DFC-ERG contends the proposed project would fulfill the legislature's vision of creating renewable energy sources utilizing technology developed in the state. Further, DFC-ERG contends the project would not have a substantial adverse environmental effect.

If the petition is approved by the Council, staff recommends the following conditions;

- a) Erosion and sedimentation controls shall be installed consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, May 2002.
- b) Minimizing the extent of clearing along Chalker Hill Road and Hebron Avenue to the greatest extent possible.
- c) The installation of evergreens on the embankment between Chalker Hill Road and the proposed access drive and along the west side of the existing gate station.
- d) Submitting final construction plans to the Council prior to the commencement of construction.