



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

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Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

### **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

May 8, 2003

Brad N. Mondschein  
Updike, Kelly & Spellancy, P.C.  
One State St., P.O. Box 231277  
Hartford, CT 06123

RE: **PETITION NO. 619E** - Select Energy Services, Inc. petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required is required for the construction, operation and maintenance of a fuel cell to be located at St. Francis Hospital and Medical Center, 114 Woodland Street, Hartford, Connecticut.

Dear Attorney Mondschein:

At a public meeting held on May 6, 2003, 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.

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 April 8, 2003, and additional information received May 1, 2003.

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

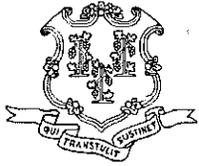
Very truly yours,

Pamela B. Katz, P.E.  
Chairman

PBK/laf

Enclosure: Staff Report dated May 6, 2003

c: Honorable Eddie A. Perez, Mayor, City of Hartford  
Saundra Kee-Borges, City Manager, City of Hartford  
Robert A. LaPorte, Chairman of City Plan Com., City of Hartford



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Petition No. 619

St. Francis Hospital and Medical Center

Hartford, Connecticut

Staff Report

May 6, 2003

On Monday, April 21, 2003 Connecticut Siting Council (Council) member Brian Emerick with Derek Phelps of Council staff met St. Francis Hospital and Medical Center (St. Francis) representative Joseph R. Greenier, Site Director, Engineering, and Select Energy Services, Inc. (Select) representative David J. Chiovoloni, Project Engineer, at St. Francis for a field review of this petition. St. Francis Hospital, through Select, is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) would be required for installation of a fuel cell on the east side of St. Francis Hospital along Collins Street in Hartford. The parking garage for the hospital is located directly across the street from the proposed fuel cell location.

St. Francis proposes to install a PC25 Power Plant (fuel cell) manufactured by UTC Fuel Cells LLC. The proposed fuel cell project consists of a single unit that is approximately ten feet wide, 18 feet long, and ten feet high. A fuel cell module contains electrochemical cells that produce direct current electricity. An electrical module converts the direct current power to alternating current power. A mechanical module contains fuel and water treatment equipment, air blowers, and a heat exchanger that utilizes waste heat to preheat fuel and water.

The fuel cell is capable of producing 200 kilowatts of electricity and would provide 800,000 BTUs of thermal energy to the hospital. The fuel cell will be interconnected with the hospital's distribution system and air conditioning system. The fuel cell will provide heat to an air-to water heat exchanger which in turn will provide heated water to re-heat coils on the hospital's air handling units.

The fuel cell will utilize natural gas as a fuel and will be water-cooled. The fuel cell would consume approximately 300 standard cubic feet per hour of natural gas, which will be provided by the Connecticut Natural Gas Company. Approximately 240 gallons of water per day would be consumed by the fuel cell. The fuel cell exhaust will contain low levels of oxides of nitrogen, oxides of sulfur, carbon monoxide, and volatile organic compounds. An air permit will not be required due to low emission levels of these regulated constituents.

The fuel cell proposed has a decibel rating of 60 dba at a distance of 30 feet, including noise from the cooling module fans. This level is considered similar to a conversational tone. At the hospital property line on Collins Street, approximately 290 feet from the proposed fuel cell site, the sound level would be below the zoning noise criteria of 45 dba for residential areas.

Bollards and fencing would be installed to provide fuel cell security. The fence would be eight feet in height and of similar design and color to the fence installed around an existing gas meter.