

November 11, 2010

Ms. Linda Roberts
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Docket No. NT-2010 - Generators

Stephen J. Humes
Partner
T. 860.275.6761
F. 860.560.5955
shumes@mccarter.com

Dear Ms. Roberts:

This letter provides the response of PSEG New Haven LLC to requests for the information listed below.


Response to CSC Generators dated October 28, 2010.

CSC -001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012 and 013.

We have filed an original and fifteen (15) copies and e-mailed a PDF version as per the instructions.

Please contact the undersigned with any questions.

Very truly yours,



Stephen J. Humes

BOSTON

HARTFORD

NEW YORK

NEWARK

PHILADELPHIA

STAMFORD

WILMINGTON

Enclosures

cc: Service List

PSEG New Haven LLC
NT-2010

Data Request NT-2010 Generators
Dated: 11/15/10
Q-CSC-001
Page 1 of 1

Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

If the facility has already been constructed, what versions of the NFPA standards were utilized?

Response:

Not applicable. PSEG New Haven LLC ("PSEG New Haven Peaking" or "facility") is currently in design.

PSEG New Haven LLC
NT-2010

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Dated: 11/15/10
Q-CSC-002
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

If the facility has yet to be constructed, what versions of the NFPA standards will be utilized?

Response:

PSEG New Haven Peaking is being designed in accordance with NFPA versions in effect as of Nov 5, 2009. Per good engineering practice, requirements of later revisions are being considered, as applicable.

PSEG New Haven LLC
NT-2010

Data Request NT-2010 Generators
Dated: 11/15/10
Q-CSC-003
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

How would recommendation #6, "Recommendation as to adoption of codes" in the Thomas Commission Executive Report affect the facility?

Response:

Please see responses to item 4 below.

Witnesses: Mukesh Shukla and Kenneth Daledda
Request from: Connecticut Siting Council

Question:

How would the following codes affect construction or modification of the facility:

- a. NFPA 37 (2010 edition);
- b. NFPA 54 (2009 edition);
- c. NFPA 54 Temporary Interim Amendment 09-3 (August 25, 2010);
- d. NFPA 850 (2010 edition);
- e. NFPA 853 (2010 edition);
- f. ASME B31; and
- g. ASME B31.1 Appendices IV and V

Response:

A review of the referenced codes, standards, and recommended practices was undertaken by the responsible lead Engineer, with input from designated experts. Anticipated impacts are listed below.

- a. NFPA 37 (2010 edition): No effect anticipated.
- b. NFPA 54 (2009 edition): This NFPA section is only applicable to systems with operating pressures at or below 125 psig. PSEG New Haven Peaking will have a maximum operating pressure above 125 psig. This NFPA section is not applicable.
- c. NFPA 54 Temporary Interim Amendment 09-3 (August 25, 2010): This NFPA section is only applicable to systems with operating pressures at or below 125 psig. PSEG New Haven Peaking will have a maximum operating pressure above 125 psig. This NFPA section is not applicable.
- d. NFPA 850 (2010 edition): No effect anticipated.
- e. NFPA 853 (2010 edition): This standard is for the Installation of Stationary Fuel Cell Power Systems, it is not applicable to the new installation at the New Haven Peaking Plant.
- f. ASME B31: No effect anticipated. Piping is in accordance with B31.1
- g. ASME B31.1
 1. Appendix IV: No effect anticipated

PSEG New Haven LLC
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Q-CSC-004
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Witnesses: Mukesh Shukla and Kenneth Daledda
Request from: Connecticut Siting Council

2. Appendix V: This appendix contains recommended practices for operation, maintenance and modification of facilities, and is not applicable to design and construction.

PSEG New Haven LLC
NT-2010

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Dated: 11/15/10
Q-CSC-005
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Witnesses: Mukesh Shukla and Kenneth Daledda
Request from: Connecticut Siting Council

Question:

What is useful lifespan of the natural gas piping/pipelines located within and to the facility?

Response:

The piping for the PSEG New Haven Peaking is expected to have a useful life in excess of 30 years.

PSEG New Haven LLC
NT-2010

Data Request NT-2010 Generators
Dated: 11/15/10
Q-CSC-006
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

Would the natural gas piping/pipelines within and to the facility need to be replaced during the life of the facility?

Response:

No, the lines will be installed new with the rest of PSEG New Haven Peaking (with the exception of the existing Southern Connecticut Gas (“SCG”) piping.

PSEG New Haven LLC
NT-2010

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Dated: 11/15/10
Q-CSC-007
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

Do you foresee any circumstances that would require replacement of a section of natural gas piping/pipeline within and to the facility?

Response:

PSEG New Haven Peaking does not foresee replacement of the natural gas piping being required within the expected life span of the new facility.

PSEG New Haven LLC
NT-2010

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Dated: 11/15/10
Q-CSC-008
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

If so, would a new section of natural gas piping/pipeline within and to the facility be installed and require cleaning?

Response:

Not applicable.

PSEG New Haven LLC
NT-2010

Data Request NT-2010 Generators
Dated: 11/15/10
Q-CSC-009
Page 1 of 1

Witnesses: Mukesh Shukla and Kenneth Daledda
Request from: Connecticut Siting Council

Question:

What type of material is the natural gas piping/pipeline within and to the facility composed of?

Response:

The new gas piping/pipeline will be primarily type A106 carbon steel, with some type 304 stainless steel. Three vendors will also handle the natural gas for the gas compressor, gas filter and gas turbine. These vendors will provide fully assembled and tested equipment packages meeting applicable safety standards. Additionally, SCG is contracted to supply natural gas to the existing Metering & Regulator ("M&R") station. SCG will provide a new meter element and interconnecting piping. At this point, PSEG New Haven will tie-in new piping to transport natural gas from the M&R station to the facility.

PSEG New Haven LLC
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Dated: 11/15/10
Q-CSC-0010
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

How many linear feet of natural gas piping/pipeline are located within and to the facility?

Response:

Although design is not completed at this time, up to approximately 1,500 feet of natural gas piping is anticipated (exclusive of any piping supplied by vendors that is integral with their packaged systems or any gas piping that is supplied and installed by SCG).

PSEG New Haven LLC
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Q-CSC-0011
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

What is operating pressure (psig) of the natural gas piping/pipeline within and to the facility?

Response:

Maximum operating pressures are 250 psig upstream of the new gas compressors (between the SCG M&R station and the new fuel gas compressors) and 700 psig downstream of new gas compressors (between the outlet of the new fuel gas compressors and the inlet of the new pre-packaged gas turbines.)

PSEG New Haven LLC
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Q-CSC-0012
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Witnesses: Mukesh Shukla and Kenneth Daleda
Request from: Connecticut Siting Council

Question:

What is the nominal pipe size in inches within and to the facility?

Response:

Nominal diameter natural gas pipe sizes will range up to 12".

PSEG New Haven LLC
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Q-CSC-0013
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Witnesses: Mukesh Shukla and Kenneth Daledda
Request from: Connecticut Siting Council

Question:

What is the length in feet of piping/pipeline that requires/required purging within and to the facility?

Response:

Because of the terminology being used in these discussions, it is unclear whether this question refers to “blowout” cleaning of the piping or “purging”. This response will address both.

Prior to the first admission of natural gas and subsequently during the evacuation and readmission of natural gas for any piping to be opened for maintenance purposes, all gas piping within the New Haven Peaking Plant will need to be “purged” with non-combustible gas from the SCG M&R station to the fuel gas trip valve on each of the three gas turbines. This is a required standard operating safety procedure for which engineered components are provided and for which procedures will be written.

If the question addresses the term “purge” to refer to the high velocity blow out cleaning of the piping to remove foreign solid debris and referred to in the industry by terms such as “blow out” or “exhaustive discharge cleaning”, that operation will apply to all piping from the SCG M&R station to the last welded piping connection at each gas turbine inlet. If performed, the blow out medium will be air, steam or other non-combustible medium. Other means will be considered to preclude such a procedure for large portions of the piping.