



April 28, 2017

**VIA ELECTRONIC MAIL AND OVERNIGHT MAIL**

Melanie A. Bachman  
Acting Executive Director  
State of Connecticut  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

**Petition No. 1218 – PSEG Power Connecticut LLC  
Bridgeport Harbor Station Unit 5 – Bridgeport, Connecticut  
Monthly Progress Report No. 4 – April 2017**

Dear Ms. Bachman:

This is the April 2017 monthly progress report submittal to the Connecticut Siting Council (CSC) for the new combined cycle generating station designated by PSEG Power Connecticut LLC (PSEG) as the PSEG Bridgeport Harbor Station Unit 5 Combined Cycle Project (BHS 5, the Project or the Facility). The monthly progress reports document compliance with all of the CSC's conditions as set forth in the CSC Decision and Order, as well as the two Development and Management Plan (D&MP) approvals. PSEG will continue to provide updates to design or construction plans via this monthly progress reporting process.

A complete CSC Condition Compliance Matrix is included in this report as Exhibit 1 and will be included in future monthly progress reports to track the CSC's requirements.

**General Status Summary**

Two major milestones were achieved this month. The Connecticut Department of Energy and Environmental Protection (CT DEEP) issued the three New Source Review (NSR) permits for BHS 5 on April 11, 2017. This was the last set of regulatory permits necessary for construction to be started, subject to ongoing local building permitting process requirements. With issuance of the NSR permits, and upon appropriate agency notifications as discussed below, construction commenced on April 12, 2017.

The required construction start notification and copies of applicable permits were provided to the CSC on April 11, 2017. Attached to that filing were the complete set of: (1) 12 FAA Determinations, including the original and renewal of the stack Determination and 10 Determinations for construction cranes, (2) the City of Bridgeport Coastal Site Plan (CSP) approval letter, (3) the CT DEEP General Permit for Construction Stormwater, (4) the CT DEEP outfall Certificate of Permission, and (5) the three approved CT DEEP New Source Review (NSR) air permits for the Project.

An information notice to the City of Bridgeport Planning and Zoning Administrator and the City Engineer was submitted on April 11, 2017.

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Construction start notifications were also provided to the CT DEEP Air Management Bureau and the United States Environmental Protection Agency Region 1 per the requirements of the NSR permits, on April 18, 2017.

Similarly, PSEG provided an information notice to the Independent System Operator – New England (ISO-NE) concerning receipt of the NSR permits.

The retirement delist offer to ISO NE was submitted on March 24, 2017, formalizing PSEG's commitment to cease operation of Bridgeport Harbor Station Unit 3 (the adjoining coal plant) by July 1, 2021 in accordance with the Community Environmental Benefits Agreement.

The second phase of remediation at the site has been initiated, which as noted previously, includes the placement of an orange geotextile warning fabric over the soils remaining onsite. The material that will be placed under permanent structures (water and fuel oil tanks) in order to remain inaccessible, is stockpiled on-site and will be placed in its final locations as construction progresses. The remediation schedule for the tank farm area (completion in the fall of 2017) remains unchanged.

**Construction and Engineering Summary**

Initial site construction activities, including sheet piling and fill placement are underway.

Detailed design continues for the Project, and major construction and equipment supply contracting continues on schedule. Building permitting is in process for the site activities (piling, foundations, etc.) and the initial Building Permits have been issued by the City of Bridgeport.

PSEG continues to evaluate underground utility designs to optimize routing, as detailed in the March 2017 Monthly Progress Report No. 3 to the CSC. Revised underground drawings will be provided to the CSC as they are developed and finalized via Development and Management Plan revision(s).

The detail piling and rigid inclusion design also continues, with load test data evaluation in process. The final number of pile and rigid inclusions will be finalized within approximately the next month.

**Offsite Fabrication and Barge Delivery of Equipment / Fill**

PSEG continues to develop design for the barge delivery of the Heat Recovery Steam Generator (HRSG). Delivery of the HRSG to the site is tentatively scheduled in the March to May 2018 timeframe. PSEG has discussed the offloading conceptual plans with the CT DEEP, United States Army Corps of Engineers, United States Coast Guard, and the City of Bridgeport Harbor Commission / Harbor Master. Permit applications are expected to be submitted in May 2017.

Fill deliveries by barge will be initiated in late May or early to mid-June at the previously identified eastern location on the site.

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**Onsite and Offsite Construction Support Facilities**

As previously outlined in its Monthly Progress Reports, PSEG is finalizing plans to use approximately five acres of the adjacent Remington Shaver site for parking and temporary trailers. The utilities for the onsite trailer area have been installed and trailer delivery and set-up is ongoing. PSEG will provide updates if other properties are identified to support the Project.

**Construction Schedule Update**

There have been no significant changes in the schedule for major activities from the prior reporting period. Minor changes are based on detailed equipment supply and engineering status.

1.	Forward Capacity Auction No. 10	February 10, 2016 (A)
2.	Completion of City of Bridgeport Land Use Permitting	November 1, 2016 (A)
3.	Completion of Non-Air CT DEEP Permitting	February 2017 (A)
4.	Initial City of Bridgeport Building Permit Submittals	February 2017 (A)
5.	Receipt of CT DEEP Final Air Permit	April 11, 2017 (A)
6.	Initiation of Field Construction Activities	April 12, 2017 (A)
	a. Temporary Construction Facilities	November 2016 (A)
	b. Site Work	April 12, 2017 (A)
	c. Foundations	June 2017
	d. Initial Equipment Deliveries	September 2017
	e. Major Equipment Delivery (Turbines, etc.)	November 2017
	f. GIS and Transformer Foundation Installation	June 2017
	g. Gas Turbine Generator (GTG) Installation	December 2017
	h. HRSG Delivery	March to May 2018
	i. Start-up Testing and Commissioning	September 2018
7.	Operational Testing (first GTG operations)	November 2018
8.	Balance of Plant Initial Start-up	September 2018
9.	Performance and Reliability Testing	March 2019
10.	Target Completion	April 2019
11.	Commercial Operations	June 2019

Note: "(A)" refers to ACTUAL

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**Status of Prior-Approved Conditions**

No prior approval condition completion documentation is included with this Monthly Progress Report.

If you have any questions or require clarification, please contact me at 973-856-0066 or the Project Senior Technical Director / Regulatory Lead, Jeff Pantazes at 856-359-7645.

Very truly yours



David Hinchey, Jr.

Manager Environmental - Major Permits & Technical Services  
PSEG Power LLC  
Fossil Environmental Affairs

**Enclosures - Exhibits:**

**1. CSC Condition Compliance Matrix**

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**Exhibit 1 - CSC Condition Compliance Matrix**

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<b>CSC Requirement Number</b>	<b>CSC Requirement</b>	<b>D&amp;M Plan Phase 1 Construction Support Facilities</b>	<b>D&amp;M Plan Phase 2 BHS 5 Design</b>	<b>Subsequent Filing Report and Date Closure Status</b>
1(a)	Final site plan showing roads, structures, and other improvements on the site	Partial: construction execution planning process summary included as Exhibit 1. A general update on Project Scope and Design is included as Exhibit 15.	Final structures and other improvements, including buildings, stack, power block, and balance of plant (Exhibits 1 and 2)	Completed
1(b)	Consideration of waste heat as supply for thermal loop or nearby industrial user	N/A	Included (Exhibit 9)	Completed; see CSC Requirement Number 12/23/16-04 below for follow-up requirements.
1(c)	Lighting plan and details to minimize impact on off-site properties	Partial: construction lighting only – Exhibit 9	Final lighting plans (Exhibits 1 and 2)	Completed
1(d)	Final fuel dock rehabilitation plan	Update on status included as Exhibit 7	Status unchanged since D&MP Phase 1 – PSEG will provide an update of this portion of the project by September 30, 2017 after design is completed. See Exhibit 10.	Completed; see CSC Requirement Number 12/23/16-05 below for follow-up actions.
1(e)	Water and sewer connection routes	Partial: temporary construction sewer line connection and other utilities included in Exhibit 9. Note that the status of the UI Exempt Modification request is included as Exhibit 11.	Permanent utility routing included (Exhibits 1 and 2)	Completed
1(f)	Status of site remediation in existing fuel tank area and remaining remediation work - Which areas of contamination will be inaccessible? - Layer showing contaminated soil locations	Remedial Action Plan Addendum included as Exhibit 6. Status of remediation implementation included as Exhibit 5.  Unit 3 tank and unloader status included as Exhibit 4.	Status for remaining work will be included to document final soil placement locations. (Exhibits 7 and 8)	Open – PSEG will submit final remediation status to CSC with a target of October 31, 2017.
1(g)	Natural gas interconnection plan and gas compressor building design and location	N/A	Included (Exhibit 2)	Completed
1(h)	Final Erosion and Sediment Control Plans	Soil Erosion and Sediment Control Plans included in Exhibit 9 as noted in Exhibit 14.  The USACE Jurisdictional Determination is included as Exhibit 13.	SESC plans included in Exhibit 2; they were previously provided in D&MP Phase 1 as well.	Completed
1(i)	Final stormwater design	N/A	Included (Exhibit 2)	Completed

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1(j)	Stormwater Pollution Protection Plan	N/A	Included (Exhibit 15)	Completed
1(k)	Flood Mitigation Plan	N/A	Included (Exhibit 3)	Completed
1(l)	Final plans to demonstrate compliance with CT DEEP noise standards	N/A	Final Noise Study Report Included (Exhibit 14)	Completed
1(m)	Fuel storage and handling plan, including containment and spill protection measures	N/A	Spill Prevention Control and Countermeasures Plan included (Exhibit 18)	Completed
1(n)	Containment measures for step-up transformer dielectric fluids and ULSD storage tank	N/A	Included (Exhibit 3)	Completed
1(o)	Containment and/or protective measures for delivery and storage of hydrogen and aqueous ammonia	N/A	Included (Exhibits 3 and 20)	Completed
1(p)	Backup generator design and containment measures for fuel, oil, and coolant	N/A	Included (Exhibit 3)	Open: vendor technical data will be included in a future Monthly Progress Report. An update will be provided by May 2017
1(q)	Dewatering plan to address groundwater issues during construction	N/A	Stormwater Pollution Control Plan for construction stormwater and dewatering included. (Exhibits 15 and 16)	Completed
1(r)	Detailed project schedules for all work activities and proposed typical construction days and hours	Partial: Schedule update Included as Exhibit 2 and permitting status included as Exhibit 3.	Work hours and schedule update included in Exhibits 3 and 6 respectively.	Completed
1(s)	Construction laydown area locations	Included in Exhibits 8 and 10 including access routings for high trucks.  In addition, the plans for barge delivery of equipment and unloading are included as Exhibit 12.	See Exhibit 3 for an update regarding a lease agreement for an adjoining property	Open: Submittal of information known to date is complete; an update is anticipated after final access agreements are completed.
1(t)	Site security measures	Partial: site security for construction discussed in Exhibit 1.	Partial: Site security measures (Exhibit 3)	Completed
1(u)	Final FAA lighting design for the stack and any FAA crane determinations	N/A	Included (Exhibit 3)	Completed

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1(v)	Decommissioning Plan as contingency plan, including infrastructure removal and site restoration plans	N/A	Included (Exhibit 19)	Completed
2	Submit FAA Determinations for temporary structures (cranes) and stack	N/A	N/A	Completed April 11, 2017 via memorandum to the CSC.
3	Submit local permits relative to the discharge of wastewater	N/A	N/A	Completed April 11, 2017 via memorandum to the CSC.
4	Submit final CT DEEP air emissions and water discharge permits	N/A	N/A	Completed April 11, 2017 via memorandum to the CSC.
5	The use of natural gas as a fuel pipeline / system cleaning medium for construction or any future facility modification shall be prohibited.	N/A	N/A	PSEG notes this condition and will retain it as "Open". The provisions of CSC Requirement Number 6 (below) address the specifics of compliance.
6	Submit the information included below in CSC requirement Numbers 6(i) to 6(viii) at least 15 days prior to fuel pipeline / system cleaning medium for construction or any future facility modification.*	N/A	N/A	Open
6(i)*	Identification of cleaning media to be used	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
6(ii)*	Identification of any known hazards through use of selected cleaning media	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
6(iii)*	Description of how known hazards will be mitigated, including applicable state or federal regulations	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
6(iv)*	Identification and description of accepted industry practices or relevant regulations concerning proper use of such media	N/A	Not currently available. An update will be provided by September 30, 2017.	Open



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6(v)*	Detailed narratives/drawings showing location and procedures to be used during pipe cleaning process, including worker safety exclusion zones	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
6(vi)*	Identification of contractor or personnel performing work, including description of past project experience and level of training/qualifications necessary for work	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
6(vii)*	Contact information for special inspector (CT registered engineer with knowledge or experience with electric generating facilities) with written approval by local fire marshal and building inspector	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
6(viii)*	Certification of notice regarding pipe cleaning operations (Submitted to all state agencies listed in CGS §16-50j(g), Dept of Consumer Protection, Dept of Labor, Dept of Emergency Services and Public Protection, Dept of Construction Services, Dept of Emergency Management and Homeland Security, and local fire marshal)	N/A	Not currently available. An update will be provided one month prior to the start date for pipe cleaning. An update will be provided by September 30, 2017 regarding the anticipated schedule.	Open
7	Compliance with specific codes and standards for any fuel pipeline / system cleaning operations related to construction or any future facility modification, as applicable. (Note: the Codes and Standards are listed in the Decision and Order)	N/A	N/A	PSEG notes this condition and will retain it as "Open". The provisions of CSC Requirement Number 6 (above) address the specifics of compliance.
8(i) <sup>†</sup>	Description of results of simulated emergency response activities	N/A	Not currently available. An update will be provided by September 30, 2017.	Open

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8(ii) <sup>†</sup>	Details of any facility site access system that accounts for all personnel entering and leaving the facility	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
8(iii) <sup>†</sup>	Establishment of emergency responder/local community notification system for onsite emergencies and planned construction-related activities	N/A	Not currently available. An update will be provided by September 30, 2017.	Open
9	Unless otherwise approved by the Council, the facility must be constructed within five years of July 22, 2016 (by July 21, 2021) or re-approval by the Council is required.	N/A	N/A	Open: PSEG anticipates completion of BHS 5 by June 1, 2019.
10	Notify the Council within 45 days of the completion of construction.	N/A	N/A	Open
11	Maintain the facility in a reasonable physical and operational condition consistent with the Decision and Order and the approved D&MPs.	N/A	N/A	Noted
12	Provide the Council with a minimum of 30 days written notice when the facility will cease operations.	N/A	N/A	Noted
13	Remit timely payments associated with annual assessments and invoices submitted by the Council.	N/A	N/A	Noted
14	Notify the Council of any change in ownership or contact information within 30 days of the sale and / or transfer.	N/A	N/A	Noted
15	Submit any request for extension as noted in CSC Requirement Number 9 (above) not later than 60 days prior to the expiration, including notice to specific parties and the service list.	N/A	N/A	Noted

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16	The Declaratory Ruling may be transferred subject to being current with payments and an agreement to continue payments as required.	N/A	N/A	Noted
17	Retain a Special Inspector to assist the Fire Marshall to assure compliance with CGS §16-50ii	N/A	N/A	Noted. This will be addressed in the response to CSC Requirement Number 6(vii).
18	Deposit a fee into the Code Training Fund in accordance with CGS § 29-251c.	N/A	N/A	Open. PSEG will work with the City of Bridgeport to establish the timing and amount of the subject fee. This will be addressed in a future Monthly Progress Report prior to the completion of the project.
	<b>D&amp;MP Phase 1 Conditions</b>			
10/31/16-01	Use of off-road construction equipment that meet the latest EPA or California Air Resources Board standards, or in the alternative, equipment with the best available controls on diesel emissions, including but not limited to retrofitting with diesel oxidation catalysts, particulate filters and use of ultra-low sulfur fuel.			Completed: February 2017 Monthly Progress Report.
10/31/16-02	Compliance with the provisions of Section 22a-174-18(b)(3)(C) of the RCSA that limit the idling of mobile sources to 3 minutes.			Completed: February 2017 Monthly Progress Report.
10/31/16-03	The petitioner shall submit the specifications of the fill to the Council			Completed; December 2, 2016 response to Interrogatory CSC D&M-05.
	<b>D&amp;MP Phase 2 Conditions</b>			
12/23/16-01	Same as 10/31/16-01 above			Completed: February 2017 Monthly Progress Report.
12/23/16-02	Same as 10/31/2016-02 above			Completed: February 2017 Monthly Progress Report.

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12/23/2016	Compliance with the reporting requirements under Section 16-50j-62 of the RCSA			Ongoing via Monthly Reporting to continue
12/23/16-04	The final modifications of the plant to accommodate the use of waste heat, if applicable, shall be submitted to the Council for review and approval.			PSEG will provide an update by January 31, 2018.
12/23/16-05	The final fuel dock rehabilitation plan shall be submitted to the Council for review and approval.			PSEG will provide an update by September 30, 2017.
12/23/16-06	The containment measures for the backup generator engine oil and coolant shall be submitted to the Council.			Open: vendor technical data will be included in a future Monthly Progress Report. An update will be provided by May 2017.
12/23/16-07	Prior to testing of start-up of the plant, the Certificate Holder shall submit to the council its final plans to comply with the recommendation and conditions relative to Council Docket No. NT-2010 and conditions (6i through 8iii) Council's Decision and Order for Petition No. 1218 relative to plant safety.			PSEG will provide an update by September 30, 2017 as noted in CSC Requirement Numbers 6i to 8iii above.
12/23/16-undesignated	The Council recommends that PSEG consult with Council staff regarding dust control measures for materials delivered by barge.			PSEG intends to submit information in the May 2017 monthly report to address this recommendation.
* 15 days prior to fuel pipeline/system cleaning operations related to construction or any future facility modifications				
† Submittal of Emergency Response/Safety Plan developed in cooperation with all local public safety officials, DESPP, and other emergency response officials				