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June 24, 2009

Thomas S. Burack, Chairman
NH Site Evaluation Committee
c/o NH Department of Environmental Services
29 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

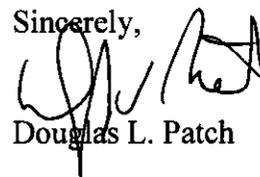
Re: Docket No. 2009-01 – Merrimack Station (90033-0001)

Dear Chairman Burack:

Enclosed is a Stipulation of the Parties entered into by the Campaign for Ratepayers Rights, Conservation Law Foundation, Freedom Logistics LLC, Granite Ridge Energy, LLC, Halifax-American Energy LLC, TransCanada Hydro Northeast Inc., and the Union of Concerned Scientists (“the Moving Parties”) and Public Service Company of New Hampshire (“PSNH”) in the above-captioned docket.

An electronic version of this Stipulation is being provided to the Site Evaluation Committee legal counsel for distribution to the Committee members prior to the hearing on June 26, 2009. Please let me know if you have any questions.

Sincerely,



Douglas L. Patch

Maureen D. Smith
(Of Counsel)

cc. Chris Allwarden
Barry Needleman
Michael J. Iacopino
Moving Parties

THE STATE OF NEW HAMPSHIRE

SITE EVALUATION COMMITTEE

DOCKET NO. 2009-01

RE: MOTION FOR DECLARATORY RULING REGARDING
MODIFICATIONS TO MERRIMACK STATION ELECTRIC
GENERATING FACILITY IN BOW

Stipulation of the Parties

For the purpose of resolving the issues raised by the motion for declaratory ruling filed by the Campaign for Ratepayers Rights, Conservation Law Foundation, Freedom Logistics LLC, Granite Ridge Energy, LLC, Halifax-American Energy LLC, TransCanada Hydro Northeast Inc., and the Union of Concerned Scientists (“the Moving Parties”) and the objection to the motion filed by Public Service Company of New Hampshire (“PSNH”) in this proceeding only, and not for the purpose of any other factual determination or proceeding, the parties in the above entitled docket hereby agree and stipulate to the following. The Moving Parties can neither verify nor confirm the accuracy of any of the exhibits provided by PSNH for purposes of this Stipulation, and there has been no opportunity for document discovery or witness examination independently to confirm the accuracy of any document, representation, calculation, or depiction. For purposes of this Stipulation, and subject to the limitation previously set forth, the Moving Parties accept and stipulate to this information solely for the purpose described above.

- I. The following definitions apply to this Stipulation:
 - a. “Facility” means all buildings, structures, equipment and associated facilities comprising PSNH’s Merrimack generating station in Bow, New Hampshire, unless otherwise noted.
 - b. “Scrubber Project” means the wet flue gas desulphurization system (FGD System) mandated by the New Hampshire legislature to be installed by PSNH and operational at the Merrimack generating station no later than July 1, 2013, under RSA 125-O:11 through 18 inclusive.
 - c. “Site” means the land contained within the metes and bounds of the PSNH property in Bow, New Hampshire upon which the Merrimack generating station is located and operates. An overall site plan of a major portion of the “Site,” comprising Block 2, Lots 200 and 200 A on Bow Tax Map 41, aggregating 306.5 acres, more or less, is attached as Stipulated Exhibit A.

- d. "Major Component" means all buildings, structures, and associated facilities and all substantial pieces of equipment making up either the Facility or the Scrubber Project or turbine project as indicated herein.

II. The following stipulations apply to the Scrubber Project:

- A. The colored drawings of Merrimack Station attached as Stipulated Exhibits B, C and D have been produced by PSNH and are accepted by the Moving Parties as generally accurate representations of what they depict, subject to the minor qualifications noted as follows:

Stipulated Exhibit B (formerly Moving Parties' Exhibit 1) depicts Merrimack Station as it appeared in 2008 prior to the turbine project.

Stipulated Exhibit C (formerly Moving Parties' Exhibit 2) is a 2008 PSNH rendering of Merrimack Station as it was expected to appear following completion of the Scrubber Project in 2013. The color orange depicts pre-existing Merrimack Station buildings, structures and/or facilities, and the other colors are used to visually distinguish and identify various new Major Components of the Scrubber Project.

Stipulated Exhibit D is the most recent and generally most accurate rendering (dated June, 2009) of Merrimack Station as it will appear in 2013 following installation of the Scrubber Project. As with Stipulated Exhibits B and C, orange is used to show pre-existing Merrimack Station buildings, structures, and/or facilities, while other colors are used to depict various new Major Components of the Scrubber Project.

- B. The entire Scrubber Project will be installed within the confines of the existing Site.

- C. PSNH will not acquire any additional land for the Scrubber Project.

- D. The parasitic load of the Scrubber Project will cause the net power output (as measured in megawatts) from the Facility to be reduced when the Scrubber Project begins to operate. PSNH has calculated the amount of reduction. See Stipulated Exhibit E.

- E. The Major Components of the Scrubber Project, a brief description of each, and the location of each are provided on the attached Stipulated Exhibit F.

- F. Stipulated Exhibit G, attached and entitled "Merrimack Station 2008 Facility Footprint," is a spreadsheet prepared by PSNH and showing the footprints (the base area in square feet and/or acres) of the various buildings, structures, facilities and other identifiable features comprising Merrimack Station in 2008, with the third dimension (height above grade) of several existing structures shown on page

6. The Moving Parties have not had opportunity to confirm or verify the dimensions shown for each individual structure or feature, nor do they agree that all structures or features listed on Stipulated Exhibit G are significant or relevant to a meaningful comparison of the size of the Scrubber Project and turbine project to the size of Merrimack Station as it existed in 2008, prior to the commencement of the turbine project. However, the Moving Parties do accept and stipulate to the dimensions shown for the various existing structures and features listed on Stipulated Exhibit G for purposes of this Stipulation only.

G. Stipulated Exhibit H, attached and entitled "Dimensions of CAP Facilities", is a spreadsheet prepared by PSNH showing the three dimensions (base area in square feet and height above grade) of the Major Components of the Scrubber Project as they will appear in 2013. The Moving Parties have had no opportunity to confirm or verify the dimensions shown for each individual structure or facility, but they accept and stipulate to the dimensions shown for the various proposed structures and facilities listed on Stipulated Exhibit H for purposes of this Stipulation only.

H. Stipulated Exhibit I, attached and entitled "Dimensions of Razed and Replaced or Relocated Facilities", is a spreadsheet prepared by PSNH and showing the dimensions (base area in square feet and height above grade) of various smaller buildings and other features of Merrimack Station as it existed in 2008 which are being (a) razed or removed in order to accommodate components of the Scrubber Project and not replaced, or (b) razed or removed and rebuilt or relocated elsewhere on the Site. Again, the Moving Parties have not had the opportunity to confirm or verify the dimensions shown for the various structures and features listed on Stipulated Exhibit I, but they accept and stipulate to the dimensions shown for purposes of this Stipulation only.

I. PSNH anticipates that the cost of the Scrubber Project will not exceed \$457 million.

III. The following stipulations apply to the turbine project, irrespective of whether it is deemed to be part of or separate from the Scrubber Project (See Section IV below):

A. Cost accrued as of February 3, 2009, in connection with the work described in PSNH's response to data request TS-01, Q-STAFF-001 in NH PUC Docket No. DE 08-145 is \$11.4 million. See, Stipulated Exhibit J attached.

B. The turbine project has increased the net generating capacity of Merrimack Unit 2. The attached Stipulated Exhibit K presents a breakdown of Merrimack Station's generating capacity and transmission interconnection capacity both before April-May 2008 and as of the date of this Stipulation, based on PSNH's ISO-New England filing in January, 2009.

IV. The Moving Parties maintain that the turbine project is part of the Scrubber Project for the purpose of the sizable addition determination. PSNH maintains that the two projects are separate for purposes of that determination.

In witness whereof, the parties signing below have caused this Stipulation to be executed as of the date referenced above.

Public Service Company of New Hampshire

Dated: June 27, 2009 by 

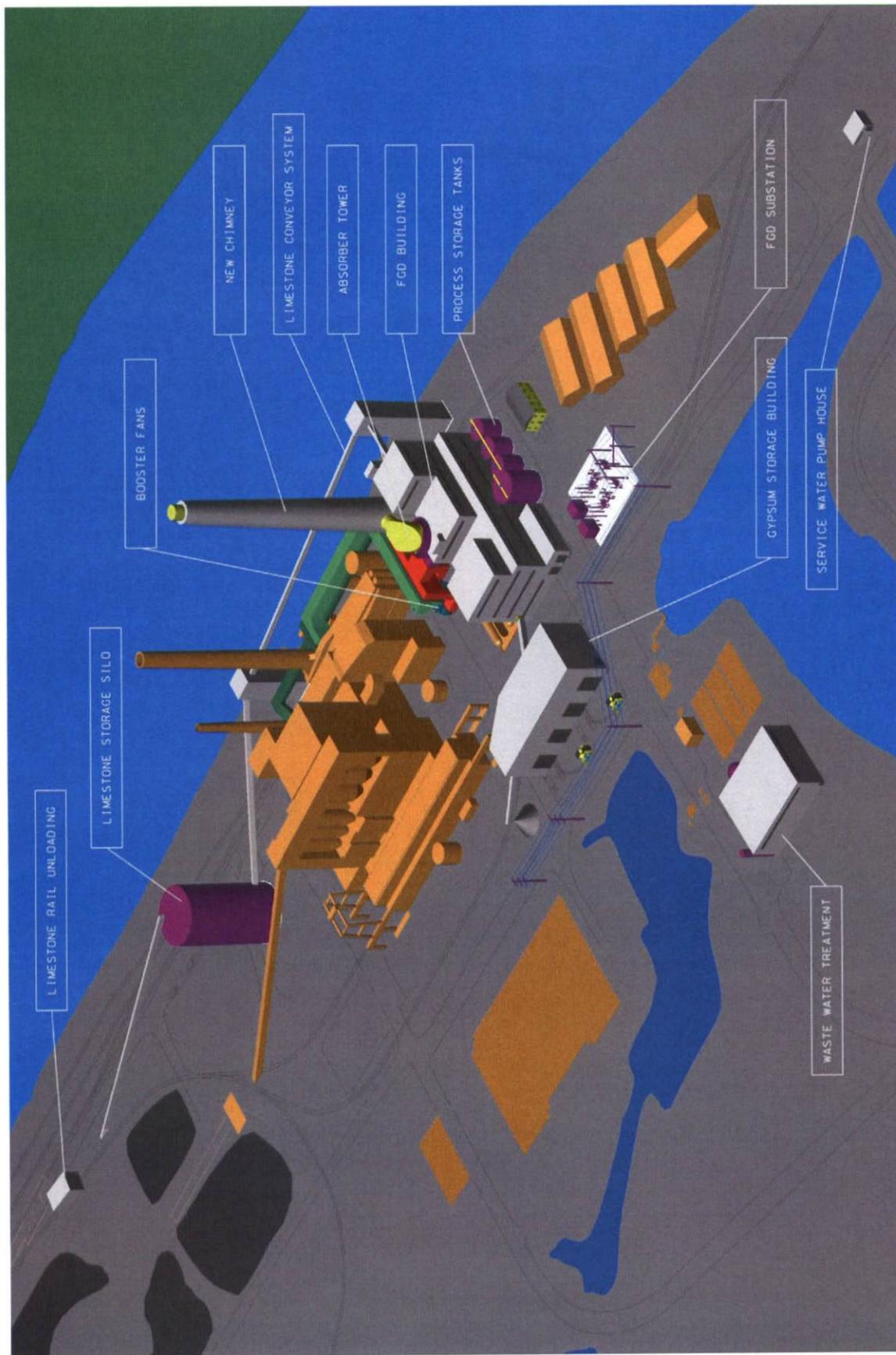
The Moving Parties

Dated: June 24, 2009 by 

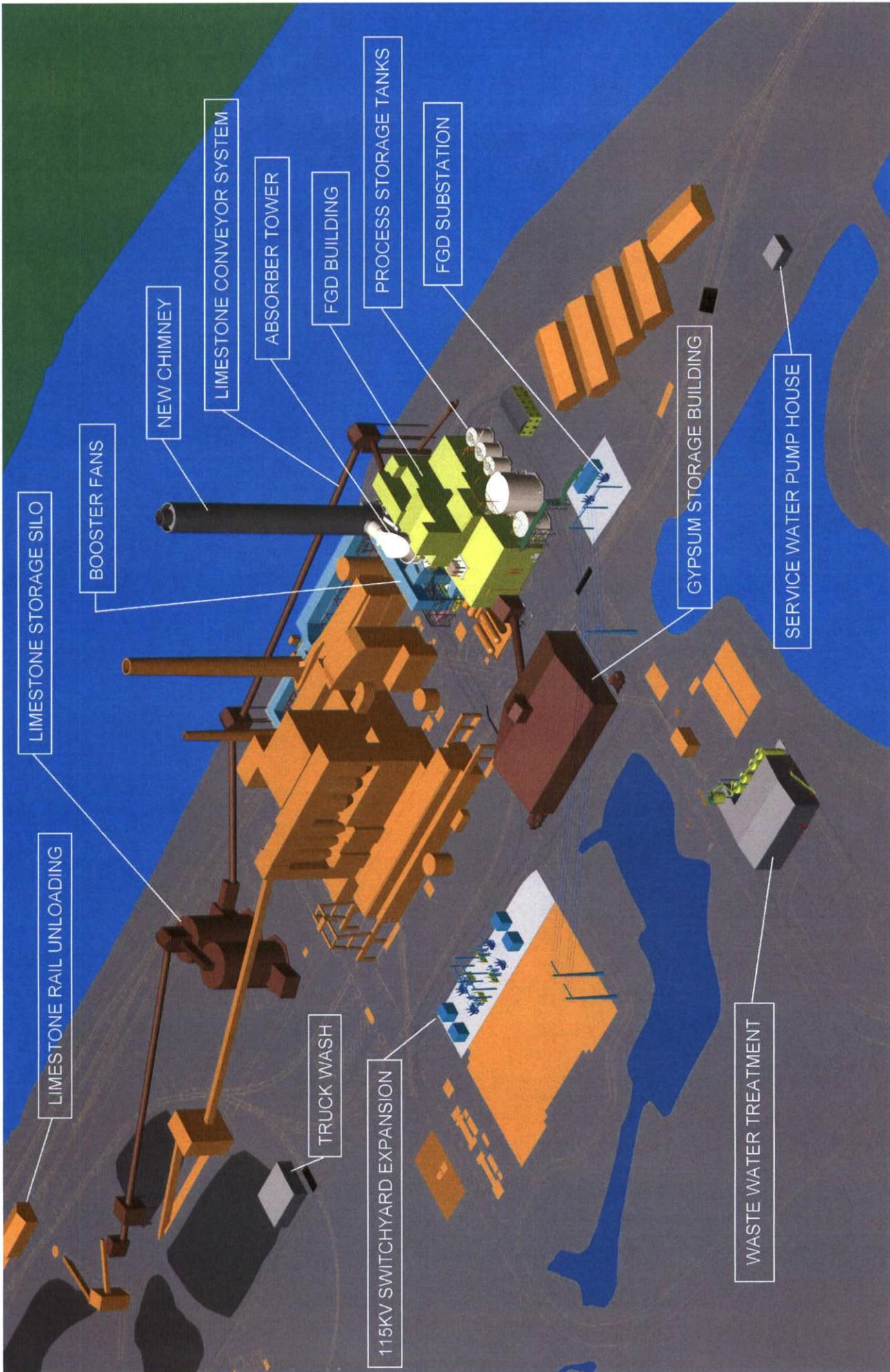
Merrimack Station: 2008



Merrimack Station: 2013



PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK CLEAN AIR PROJECT



Merrimack Clean Air Project Electrical Load Analysis								
Two Unit Operation				Unit 1 Only Operating				
	Design Running Load (no duty cycle), Kw	(3)	Running Load (with duty cycle), Kw		Design Running Load (no duty cycle), Kw	(3)	Running Load (with duty cycle), Kw	
AUX TRANSFORMER FT1								
4160V Motors	6,062.3		5,723.3	(1)	2,997.3	(4)	2,141.7	(1)(5)
Transformer 002A	250.1		225.1	(2)	250.1		200.1	(2)
Transformer 002B	710.7		355.3	(2)	710.7		284.3	(2)
Transformer 003A	207.2		103.6	(2)	207.2		82.9	(2)
Subtotal	7,230.3		6,407.3		4,165.2		2,708.9	
AUX TRANSFORMER FT2								
4160V Motors	6,969.4		6,793.1	(1)	3,028.6	(6)	2,852.2	(1)(6)
Transformer 003B	85.4		68.3	(2)	85.4		59.8	(2)
Transformer 004A	119.4		107.4	(2)	119.4		95.5	(2)
Transformer 004B	410.3		287.2	(2)	410.3		246.2	(2)
Subtotal	7,584.5		7,256.0		3,643.6		3,253.7	
TOTAL	14,814.8		13,663.3		7,808.8		5,962.6	
(1) Accounts for duty cycle on Ball Mills, Vacuum Pumps and L-2A Conveyor								
(2) Accounts for duty cycle on a percentage basis for Low Voltage Motors								
(3) Estimate based on current Island load information								
(4) Two of four Recycle Pumps operating; No Unit 2 Booster Fans operating								
(5) Two of four Recycle Pumps operating; No Unit 2 Booster Fans operating; Ball Mills and Vacuum Pumps scaled to MW								
(6) Two of four Recycle Pumps operating (may require 3rd recycle pump-add 876Kw); No Unit 2 Booster Fans operating;								

Major Component	Description	Location
FGD System -FGD Building -Absorber Tower -Process Storage Tanks	<p>The FGD system is designed to take exit boiler gas emissions from both Unit 1 and Unit 2 and introduce them into the bottom of a large absorber tower with the gas flow traveling upwards into a liquid spray system comprised of limestone mixed with water. When the flue gases pass through this mixture, mercury in the flue gas will be removed and trapped. This process will also remove sulfur dioxides and particulate. The flue gases will exit the tower and travel up the new common chimney. Mercury, sulfur and other materials removed from the gas stream will be concentrated in a liquid at the base of the absorber tower where formation of gypsum crystals will occur. Material from this water pool at the base of the absorber tower will then be pumped to the dewatering equipment where dry gypsum will be created for off-site shipment to be used in the formation of wall board. Liquid material drawn from this drying process will be treated in a new wastewater treatment facility.</p> <p>The process storage tanks are comprised of reagent feed tanks (limestone and water), filter feed tanks (gypsum and water), an absorber hold tank, and a reclaim water tank.</p>	<p>The building depicted in green, and adjacent tanks and tower, on Exhibit D directly south of the existing structure housing Units One and Two.</p>
Material Handling System -Limestone Storage Silo Area -Limestone Conveyor System -Gypsum Storage Building -Gypsum Conveyor system	<p>There are two main segments of this overall system, which are necessary in order to support the functioning of the FGD system. One system receives dry bulk limestone material delivered to the Station. This material will be received by rail, unloaded in the existing coal car dumper facility, and then deposited into the limestone storage silos. The material will then be conveyed (enclosed) to the scrubber building. The second segment of this system will convey (enclosed) the dewatered gypsum material from the FGD system to a gypsum storage building. In this building, front loading bulldozers will scoop the dewatered or dry gypsum and load it into trucks for transport to area drywall manufacturing companies.</p>	<p>The Limestone Handling System extends from the discharge of the existing coal yard radial stacker and includes all equipment and structures up to the flanged inlets above the Limestone Day Silos at the FGD. The Gypsum Handling System extends from the FGD building to the Gypsum Storage Building. The Material Handling System is depicted in brown on Exhibit D.</p>
New Chimney	<p>A new common chimney will be used for both boiler gas streams from Unit 1 and Unit 2. The volume of gas flow combined with air emission modeling analysis and good engineering practice dictated the height of the chimney. Since the new chimney is common for</p>	<p>Adjacent to the northeast corner of the FGD building, depicted in dark gray on Exhibit D.</p>

	both Units, it is taller and larger in diameter than the individual chimneys previously associated with Unit 1 and Unit 2 respectively.	
WWTF -Waste Water Treatment Building -Equalization Tanks (2), Sludge tanks(2)	In order to properly treat all liquid discharge flows from the FGD Project, a new wastewater treatment system is being designed. This technologically advanced system will process the wastewater and treat and remove contaminants.	A new building located south of the 115 KV switchyard expansion and west of the FGD substation, depicted in gray (with yellow tanks) on Exhibit D.
Booster Fans and Ductwork -Unit 1 Fan -Unit 2 Fan -Unit 1 ductwork -Unit 2 ductwork	When operational, the FGD system will cause additional pressure drop for Merrimack 1 and 2 boilers exit gases. In order for these gases to be able to overcome this pressure drop, booster fans are required. These fans will pull gases from the Unit 1 and Unit 2 exit ductwork and convey them through the FGD absorber tower and ultimately up the new common chimney. In order to connect the booster fans to the existing Unit 1 and Unit 2 boiler exit ducts, new fan inlet ductwork will be required.	The new booster fans will be installed directly upstream of the absorber tower. The ductwork will begin from the existing two units' exit ductwork and then connect to the booster fans. A second segment will connect from the booster fans' discharge to the FGD system. See Structures depicted in turquoise blue north of FGD Building on Exhibit D.
FGD Substation	The FGD Substation will receive 115kV power from the Merrimack Station 115kV switchyard extension. This power will be stepped down in voltage for distribution to various electrical switchgear to power all aspects of the Scrubber Project.	Located slightly south and west of the FGD building. Depicted in turquoise blue on light gray on Exhibit D.
115 kv Switchyard Expansion	Modifications to the existing Merrimack Station 115 kV high yard are needed in order to provide a power supply to the new FGD substation. These modifications provide the appropriate connections and isolation equipment needed to safely and reliably allow power flow to the Scrubber Project.	Directly east of the existing switchyard, depicted in turquoise blue on light gray on Exhibit D.
Service Water Pumphouse	In order to provide make up water to the FGD system, a service water supply is needed. This water supply provides necessary make up to the FGD spray system due to moisture losses which will occur both while mixing with flue gas resulting in losses to atmosphere as well as other evaporative and dewatering system losses.	All equipment will be contained in a complete building located south of the FGD substation, depicted in gray on Exhibit D.
Truckwash	This facility will provide a drive through wash system designed to remove residual coal and coal dust from the rear storage/dump compartment of large dump trucks. The cleaned trucks will be used to bring dewatered gypsum to area wallboard manufacturers. The truckwash facility will include all equipment systems, structures, and accessories as needed. The building will be designed to reclaim and burn all coal collected.	Located south of the existing coal piles, and depicted in gray on Exhibit D.

Merrimack Station 2008 Facility Footprint				
	Area			
Turbine Island		15,504	ft²	0.36 Acres
Turbine Transformer Islands				
	MK1 Transformer	7,102	ft ²	0.16
	MK2 Transformer	6,240	ft ²	0.14
Transmission High Yard and Jets		96,543	ft²	2.22 Acres
Jet Fuel Storage area		6,930	ft²	0.16 Acres
Gantry Crane				
	MK2 Crane Bay	2,964	ft ²	0.07
	MK1 Crane Bay	4,332	ft ²	0.10
MK2 Boiler Island				
	MK2 plus original Precip	22,272	ft ²	0.51
	MK2 SCR	8,540	ft ²	0.20
	MK2 Supplemental Precip.	7,686	ft ²	0.18
	Stack	3,390	ft ²	0.08
MK1 Boiler Island				
	MK1 plus original Precips and SCR	12,720	ft ²	0.29
	MK1 Supplemental Precip.	2,808	ft ²	0.06
	Stack	1,931	ft ²	0.04
Admin Building		2,964	ft²	0.07 Acres
New Maintenance Shop		6,000	ft²	0.14 Acres
Screen Houses				
	MK2	2,499	ft ²	0.06
	MK1	1,998	ft ²	0.05
Fuel Handling				
	Crusher House	1,650	ft ²	0.04
	Coal Yard	922,500	ft ²	21.18
	Car Dumper/Unloader	2,555	ft ²	0.06

Car Thawer	3,924	ft ²	0.09	Acres
Coal Yard Service Building plus outside equipment parking	19,150	ft ²	0.44	Acres
F Belt Shadow	6,300	ft ²	0.14	Acres
Warehouses				
A-D	26,000	ft ²	0.60	Acres
E	5,175	ft ²	0.12	Acres
Paved warehouse area	43,000	ft ²	0.99	Acres
Outdoor Rack Storage	3,060	ft ²	0.07	Acres
South Plant Leach Field	2,520	ft ³	0.06	Acres
South of Warehouse lay down area	20,880	ft ²	0.48	Acres
South Yard Area				
Mill Building	2,700	ft ²	0.06	Acres
Boiler Maker Shop	1,500	ft ²	0.03	Acres
Equip Shop	1,200	ft ²	0.03	Acres
Pipe Fitters Shop	1,425	ft ²	0.03	Acres
Laborer and Masons Shop	1,544	ft ²	0.04	Acres
Wash Room	1,425	ft ²	0.03	Acres
Elec. And Plumbers shop	1,544	ft ²	0.04	Acres
Yellow Building	8,690	ft ²	0.20	Acres
Ammonia System	10,185	ft ²	0.23	Acres
South Yard Roadways/Walkways/Training/and Lay down	50,440.50	ft ²	1.16	Acres
PAC Injection system	384	ft ²	0.01	Acres
Trona System	805	ft ²	0.02	Acres
Yellow Building Parking	1,806	ft ²	0.04	Acres
South West Contractor Area		ft ²		
Contractor Trailers	7,200	ft ²	0.17	Acres
Contractor Parking	10,800	ft ²	0.25	Acres
Contractor Truck Parking West (across from High Yard)	13,690	ft ²	0.31	Acres
Waste Water Treatment Facility				
Pump House	1,541	ft ²	0.04	Acres

Main Settling Basins	11,742	ft ²	0.27	Acres
Neutralizer	1,256	ft ²	0.03	Acres
Oil Separator	70	ft ²	0.00	Acres
Chemical Mixing Tank	319	ft ²	0.01	Acres
Guard Shack	120	ft ²	0.00	Acres
Fire Pump House	100	ft ²	0.00	Acres
North Yard Leaching Fields				
Field #1	2,656	ft ²	0.06	Acres
Field #2	2,656	ft ²	0.06	Acres
Rental Aux Boiler area	380	ft ²	0.01	Acres
MK1 Fly ash Tank	221	ft ²	0.01	Acres
MK2 Common Fly ash Tank	255	ft ²	0.01	Acres
Ensio Abrasive Products (slag yard)	277,992	ft ²	6.38	Acres
North Yard Tank Storage	16,000	ft ²	0.37	Acres
Cooling Canal				
Spray Module Canal	770,000	ft ²	17.68	Acres
Discharge Canal	126,875	ft ²	2.91	Acres
Island	843,000	ft ²	19.35	Acres
Power Spray Module Maintenance House and MCC	1,040	ft ²	0.02	Acres
Power Spray Module Maintenance Lay down Area	4,000	ft ²	0.09	Acres
Total Rail Bed	169,728	ft ²	3.90	Acres
Roadways				
South Entrance to River	49,118	ft ²	1.13	Acres
West of High Yard	29,520	ft ²	0.68	Acres
North of High Yard Entrance to River	43,337	ft ²	0.99	Acres
East of High Yard	29,520	ft ²	0.68	Acres
East side of Plant, Along River	171,216	ft ²	3.93	Acres
West of Coal Yard	95,735	ft ²	2.20	Acres

Met Tower	4,150	ft²	0.10	Acres
North Parking Lot	16,088	ft²	0.37	Acres
Main Contractor Parking Lot	115,500	ft²	2.65	Acres
Coal Prep and Machine Shop	1,500	ft²	0.03	Acres
Coal Sampler	1,122	ft²	0.03	Acres
Fuel Oil Tank	3,710	ft²	0.09	Acres
MK2 Condensate Storage Tank	707	ft²	0.02	Acres
MK1 Condensate Storage Tank	707	ft²	0.02	Acres
Slag Pond Receiving, Overflow and Coal Yard Settling Basin	62,500	ft²	1.43	Acres
Large Sluice Pond South West of High Yard	93,750	ft²	2.15	Acres
Main Service Water Wells Immediate Usage Area				
Well No.1 Cap, Access, and Work area	4,800	ft²	0.11	Acres
Well No.2 Cap, Access, and Work area	10,000	ft²	0.23	Acres
Well to Plant Supply Pipe	3,457	ft²	0.08	Acres
Fly Ash Disposal Area				
Pump House Area	43,560	ft²	1.00	Acres
Ash Pit	291,852	ft²	6.70	Acres
Access Road	93,750	ft²	2.15	Acres
Total Facility Footprint				
4,780,024 ft² 109.73 Acres				

Merrimack Station Items Not Included in Facility Footprint				
Athletic Facility		93,750	ft²	2.15 Acres
Linemen Training Facility		31,250	ft²	0.72 Acres
Pole Yard				
	Maintenance Area	55,660	ft²	1.28 Acres
	Pole Storage	198,000	ft²	4.55 Acres
Main Service Water Wells (surrounding limited use land)		754,034	ft²	17.31 Acres
Items Not Included in Facility Footprint				
1,132,694 ft² 26.00 Acres				
All Facilities Total				
5,912,718 ft² 135.74 Acres				

Merrimack Station 2008 Structure Heights

Structure	Height ft.
MK1 Stack	225
MK2 Stack	317
MK1 Structure	177
MK2 Structure	181
Crusher House	67
Car Dumper Building	33
Coal Piles	40 +/-
Warehouses (A,B,C,D)	25
E Warehouse	30
High Yard	56
Turbine Island building	56
MK1 Transformer	19.8
MK2 Transformer	22.4
Jet Fuel Storage Tanks	17
Gantry Crane Bays	88
Admin Building	39
New Maintenance Shop	24
Screen Houses	14
Car Thawer building	19
"Yellow Building" in the South Yard	23.8
WWTF Pump House	12
MK 1 Fly Ash Tanks	46
MK 2 Fly Ash Tanks	83
Coal Yard Service Building	21.8

Attachment to Merrimack Station 2008 Facility Footprint

6/12/2009

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK CLEAN AIR PROJECT

DIMENSIONS OF CAP FACILITIES

LOCATION	BASE AREA (SQ.FT)	HEIGHT ABOVE GRADE (FT)
FGD SYSTEM	31,720	
FGD Building	19623	125
Absorber Tower	3190	140
Process Storage Tanks		51
Reclaim Water Tank -----	1722	
Absorber Hold Tank -----	3506	
Filter Feed (2). Tanks & Reagent STG. (2) ---	3679	
MATERIAL HANDLING SYSTEM	53,876	
Gypsum Storage Building	25628	65
Gypsum Conveyor Shadow	1760	(10'-6" dia.)**
Limestone Storage Silo Area	12925	102
Limestone Conveyor Shadow	13563	(8'-9" dia.)**
CHIMNEY	5,573	445
WASTE WATER TREATMENT	13,800	
Waste Water Treatment Building -----	10755	51
Equalization Tanks (2). Sludge Tanks (2) -----	3045	37
BOOSTER FANS AND DUCTWORK	20,646	
Unit 1 Fan -----	1900	35
Unit 2 Fans -----	5125	35
Ductwork Shadow	13621	77
Unit 1 Ductwork (H x W)		(11'-3" x 12'-6")**
Unit 2 Ductwork (H x W)		(19'-4" x 17'-6")**
FGD TRANSFORMER (SUBSTATION)	9,900	80
MAIN TRANSFORMER YARD (115kV SWITCHYARD EXPANSION)	19,537	90(*)
SERVICE WATER PUMP HOUSE	1,140	20
TRUCK WASH FACILITY	4,200	20
YELLOW BUILDING REPLACEMENT	8,690	30
CONTRACTOR PARKING LOT REPLACEMENT	117,000	
SOUTH YARD LEACH FIELD REPLACEMENT	7,776	
GUARD SHACK REPLACEMENT	160	8
CONTRACTOR WASH ROOM REPLACEMENT	1,600	15
SOUTH YARD ROADWAY REPLACEMENT	15,000	
CONTRACTOR TRAILERS	4,000	15
TOTAL	314,618	

(*) - Height of Transmission Towers is estimated. Design is not finalized

** - (dimensions of enclosure /ductwork , not height above grade)

Dimensions of Razed and Replaced Facilities

Portion of Facility Footprint being used by the Scrubber Project and not being replaced:

	<u>Area square feet</u>
• Paved warehouse area (portion)	20,000
• South yard area	
Mill building	2,700
Boiler maker shop	1,500
Equipment shop	1,200
Pipe fitters shop	1,425
Laborers and masons shop	1,544
Electrical and plumbers shop	1,544
South yard roadways, etc. (portion)	35,440
Yellow building parking	1,806
	<hr/>
Total	67,159

Portion of facility footprint being used by the Scrubber Project and being replaced:

	<u>Area square feet</u>
• Yellow building	8,690
• Contractor parking lot	115,500
• South yard leach field	2,520
• Guard shack	120
• Washroom (contractors)	1,425
• South yard roadway (portion)	15,000
• Southwest contractor area – contractor trailers	7,200
• Southwest contractor area – contractor parking	10,800
	<hr/>
Total	161,255

Public Service Company of New
Hampshire
Docket No. DE 08-145

Data Request TS-01

Dated: 02/03/2009
Q-STAFF-001
Page 1 of 1

Witness: William H. Smagula
Request from: New Hampshire Public Utilities Commission Staff

Question:
Please provide the total cost and components of the turbine project.

Response:
The total cost of the turbine project is \$11.4 million. The Contractor may be entitled to a performance payment upon final performance testing.

The turbine components included the HP/IP rotor with integral shroud rotating blading, integral shroud stationary blading, nozzle block, inner and outer cylinder casings, associated seals and piping, inspection ports.

	Merrimack Station Generation Capacity (megawatts)									ISO Transmission Interconnection Capacity (megawatts)					
	Current Operations (MWs)	Seasonal Claimed Capability (1)		Expected capacity increase with new turbine			Future Operations (2)			current approved net (4)		application request (5)		net change	
		winter	summer	Low	Expected high	Potential high	Low	Expected high	Potential high	winter	summer	winter	summer	winter	summer
Merrimack Unit 1	113	114.0	112.5												
Merrimack Unit 2	320	321.75	320.0	6	13	17.176	326	333	337.175 (3)	353.5	322.825	353.5	340 (6)	0	17.175
Total Fossil	433														
Combustion Turbine #1	22.5	21.676	16.826												
Combustion Turbine #2	22.5	21.304	16.804												
Total Facility	478														

Notes

(1) Per ISO-NE, seasonal claimed capability audits are completed twice a year to validate unit operating capability

(2) Future Operations with the new energy efficient turbine

Note: Consistent with the exhibit titled MK CAP Electrical Load Analysis, once the scrubber is operational, it is anticipated that total facility output will be reduced by 5.96 - 13.66 MWs

(3) Sum of current 320 MWs plus expected capacity increase from new turbine

(4) Current ISO approved interconnection capacity ratings

(5) As shown in the ISO interconnection application January 2009 provided to moving parties on May 27

(6) Interconnection application requests a summer transmission capacity value (of 340 MW) that will accommodate the potential high generating capacity (337.175 MW) plus a small additional margin (2.825 MW) to insure a safe and adequate modeling analysis.