

**THE STATE OF NEW HAMPSHIRE
before the
PUBLIC UTILITIES COMMISSION**

Public Service Company of New Hampshire
Merrimack Station Scrubber Project
Request for Information

Docket No. DE 08-103

Report

In its Secretarial Letter dated August 22, 2008 in this docket, the Commission notified Public Service Company of New Hampshire (PSNH) that it was conducting an inquiry into the status of PSNH's efforts to install a wet flue gas desulphurization system (scrubber technology) at Merrimack Station in Bow. Installation of the scrubber (the "Clean Air Project") is mandated by RSA 125-O:11 through 18 (the "Scrubber Law") to achieve reductions in mercury emissions. The Commission directed PSNH to file, by September 12, 2008:

- I. a comprehensive status report on its installation plans;
- II. a detailed cost estimate for the project;
- III. an analysis of the anticipated effect of the project on energy service rates; and
- IV. an analysis of the effect on energy service rates if Merrimack Station were not in the mix of fossil and hydro facilities operated by PSNH.

This report provides the information concerning PSNH's scrubber installation project (the Clean Air Project) requested by the Commission's secretarial letter.

I. SCRUBBER STATUS

PSNH is moving rapidly forward with the Clean Air Project to comply with the Scrubber Law's mandate to achieve significant reductions in mercury emissions at the coal-burning electric power plants in the state as soon as possible. RSA 125-O:11, I. Unless further delayed, PSNH will meet the statutory installation deadline of July 1, 2013, and is striving to have the scrubber operational sooner than that deadline. The scope of the Clean Air Project will encompass planning and design; schedule and cost development; oversight of multiple competitive bidding processes for engineering; equipment and system procurement, selection of contractors, contract negotiations and execution; sequential construction management of the various project components and interfaces, followed by the integration of those components into a functioning system; and operational start-up activities. All work on the Clean Air Project will be performed with safety as a high priority. To date, PSNH has spent approximately \$10 million on the Clean Air Project.

A. Activities Performed during 2006

1. Merrimack Station began investigating operational changes at the facility that would provide the necessary flexibility in the design and engineering of a scrubber system. The catalyst replacement program on the previously installed selective catalytic reduction systems was reviewed and updated to accommodate operating requirements of a new scrubber and potentially improve the overall performance of the equipment.
2. Merrimack Station revised, tested and modified its ash handling operations and capabilities to provide necessary options for ash management in order to maximize unit operations when a new scrubber is installed.
3. Initial engineering was completed by Sargent and Lundy ("S&L") based upon information provided in 2005. S&L also evaluated a number of equipment options integral to the scrubber project and completed a layout of the project. Budgetary quotes and lead times were solicited from major scrubber vendors, also during 2005.
4. General specifications for the scrubber island, material handling system and the chimney were provided to PSNH by S&L to further develop project requirements. To complement this preliminary engineering work, site visits to the other scrubber installations were completed by PSNH/Merrimack Station personnel.
5. Preliminary work in support of the temporary air permit application was completed including emissions netting calculations and suggested modeling protocol.
6. Water quality testing was completed to define and identify appropriate sources for make-up water to the scrubber system.
7. Electrical work was reviewed with PSNH transmission and distribution divisions to outline the power requirements for the new scrubber system. A two phase approach was defined. Plans were made to relocate and upgrade an existing, old construction yard in order for the land to be used for construction power for the scrubber system. A new substation will be installed to power the scrubber operations.
8. Also in preparation for the scrubber installation, an unused oil tank was removed from the north side of the plant. This space will eventually house portions of the material handling system required by the scrubber project.
9. A study of the Merrimack property's south yard was performed to ensure an adequate layout area for the necessary equipment and building surrounding the scrubber. A number of contractor facilities in the south end of the plant, as well as the existing training facility, were identified for relocation.
10. A portion of the southern-most yard was cleared to make room for a new warehouse building. Although a separate effort from construction of the scrubber project itself, it

was necessary to complete this work prior to the extensive construction and labor effort that will be underway during the construction of the scrubber islands. Preliminary engineering, design, surveying and permitting for this new warehouse were completed.

11. A number of appropriate purchasing and procurement efforts were completed including contract options and strategy analysis and vendor lists for scrubber manufacturers and architect/engineers.
12. Engineering efforts included review of the latest equipment options, equipment integration capabilities, and mercury capture capabilities.
13. Also initial investigation into gypsum disposal and sale opportunities was pursued with various wallboard manufacturers.

B. Activities Performed during 2007

1. Merrimack Station continued operational changes at the facility that would provide the necessary flexibility to accommodate the design and engineering of a scrubber system. The station worked to modify boiler combustion temperatures. Tube shields were removed from the boiler reheater to increase heat transfer and improve steam temperatures.
2. The station's south yard was cleared for the new warehouse on schedule. This new warehouse will initially house displaced inventory from existing warehouse buildings. The building permit application was submitted on May 17, 2007. Preliminary design of the building was completed.
3. PSNH went out to bid for the Program Manager for the Clean Air Project on May 15, 2007. URS Washington Division ("URS") was hired in October 2007 following lengthy contract negotiations.
4. PSNH submitted a Temporary Air Permit application for the Clean Air Project with NHDES on June 6, 2007. An emissions netting calculation and determination of a stack height consistent with good engineering practice ("GEP") were required information to support the Temporary Air Permit application submittal. Necessary air dispersion modeling services were contracted for and have begun.
5. The first legislative update, as required annually by RSA 125-O:13, IX was completed on June 26, 2007. PSNH is required to report on the progress, status, and cost of complying with the provisions of the scrubber law to the legislative oversight committee on electric utility restructuring, and the chairpersons of the house science, technology and energy committee and the senate energy and economic development committee,. A brief summary of that first update follows:

- Engineering
 - i. Specifications developed for key components
 - ii. Possible site plan layouts developed
 - iii. Equipment options identified
 - iv. Vendor lists and contacts established
 - v. Industry impact of high number of scrubber installations analyzed
- Commercial and Purchasing
 - i. Contract strategy determined and approved
 - ii. Program Manager specification written
 - iii. Program Manager out to bid
- Permits and Approvals
 - i. Temporary Air Permit Application submitted to NHDES-ARD June 7, 2007
 - ii. Town of Bow presentations and submittals underway
 - iii. Company financing approvals initiated
- Site work
 - i. Existing oil tank removal completed
 - ii. Site surveys completed
 - iii. South Yard studies completed

C. Activities Performed during 2008 to date

1. Construction of the major components of the Clean Air Project has been broken down into the engineering, procurement, and construction of four major work islands which include the scrubber, chimney, waste water treatment facility, and material handling system. Construction must occur on a sequential basis. Of these islands, the chimney and scrubber require completion first for safety reasons given the physical orientation of the equipment and constraints of the site. Following foundation work, the chimney “shell” construction must precede all work because of the necessity of preserving a “drop zone” or area around the chimney for evident safety reasons. As a result of these sequential construction requirements, both the scrubber island and chimney specifications were prioritized and sent out to bid first, vendor bid proposals were received, bid proposals were reviewed to identify the lowest evaluated bidder and negotiations with lowest evaluated bidders were undertaken. The negotiations are in final stages on both contracts and the contracts were expected to be executed this week; however, as a result of the initiation of this inquiry, such contracts must await the Commission’s action in this inquiry. The material handling system and waste water treatment system followed with specifications sent out to bid, bid proposals received and evaluated, and negotiations well under way. Contracts will be finalized in short order and will be ready to execute in the near-term.
2. A second annual legislative update was completed on June 18, 2008. The status of the scrubber installation and mercury reductions was reported on to the legislative oversight committee on electric utility restructuring, and the chairpersons of the house science, technology and energy committee and the senate energy and economic development committee. A summary of that update follows:

- Engineering
 - i. Project's components
 - ii. Specifications developed for 4 key components
 - Commercial and Purchasing
 - i. Program Manager hired Sept 2007
 - ii. Scrubber Island and Chimney proposals are in negotiations
 - iii. Vendor Proposals requested and received for Wastewater Treatment Facility and Material Handling System
 - Review, Permits and Approvals
 - i. NHDES – May 12 presentation
 - ii. Temporary Permit expected October 2008
 - iii. Town of Bow –Local permitting
 - iv. Regional Planning Commission
 - Site work
 - i. Existing oil tank removed
 - ii. Site surveys and studies completed
 - iii. Warehouse construction underway
 - iv. On-site engineering facilities completed
 - Schedule and Costs
 - i. Tie-ins: MK#1 Fall 2012, MK#2 Spring 2013
 - ii. Project costs will be updated with review of major equipment bids
3. It was reiterated at this update that PSNH was focused on expediting the schedule; and with two major equipment islands in negotiations, it would soon be known to what extent the critical path of this project could be potentially shortened. These negotiations would also provide updated costs associated with a new timeline.
 4. As referenced earlier, negotiations with the scrubber island and chimney are now in their final phase. Recently completed boiler implosion, burner management and electrical supply studies are being reviewed. Multiple meetings have been attended in the Town of Bow focusing on local permitting requirements and also addressing any Regional Impact considerations. With that, public outreach and education meetings have been conducted and/or scheduled with a variety of organizations, such as the Southern New Hampshire Planning Commission, the Town of Pembroke, Town of Hooksett, etc.
 5. Finally, air modeling is being completed with current engineering and equipment design information and proposed site orientation. Drafting of the Temporary Air Permit continues by the New Hampshire Department of Environmental Services (NHDES) Air Division.

D. Schedule Status

1. As the project has moved forward steadily, PSNH has obtained more detailed information from major equipment and system suppliers, and has adjusted the schedule accordingly. The current optimized schedule shows that completion of the Clean Air Project in 2012 is

possible if there are no additional delays. PSNH's efforts are now focused on an early completion, as required by RSA 125-O:11, I. The early completion date is attributable to PSNH's diligence in complying with the Scrubber Law's mandates as rapidly as reasonably possible. Early completion will be beneficial to customers because AFUDC will be reduced, customers will benefit from early reductions credits provided by the Scrubber Law's Economic Performance Incentives at RSA 125-O:16, and, most importantly, mercury and sulfur oxide emissions will be reduced. In addition, by finalizing fixed price contracts and locking in prices, additional escalation of commodities can be avoided to some extent.

2. An early completion date is predicated on successful completion of a number of critical activities on a timely basis. These activities include obtaining permits to proceed with construction in the Fall of 2008 from the Town of Bow, and the receipt of a Temporary Air Permit from the New Hampshire Department of Environmental Services in the Fall of 2008. Moreover, procurement of engineering services and equipment must proceed on an aggressive schedule. Even a short delay at this time could trigger a six to eight month delay in completion of the project because foundation construction work must commence in the Fall of 2009. If foundation construction work is not completed in the Fall of 2009, the work will have to be delayed until the Spring of 2010 because it cannot be performed during winter months. This illustrates the valid concern that even a brief delay has the potential for creating a domino effect on project schedule with far more than a day-for-day delay.
3. The schedule is aggressive and has only a small tolerance for unpredictable delays due to inclement weather, equipment delivery problems, resolving engineering or design problems, or start-up and testing problems. Consequently, any delays caused by regulatory actions or other unanticipated events could jeopardize PSNH's ability to adhere to the schedule. Any such delay would increase the cost of the project.

E. Engineering Status

1. URS has overall responsibility to develop the cost and schedule, subject to PSNH's review and approval.
2. The initial estimated cost of the project was based on a Sargent & Lundy estimate performed in 2005. There have been significant increases in the cost of raw materials, steel, labor, and energy, since this estimate was made, as noted by the *Wall Street Journal* in a May 27, 2008 article entitled "Costs to Build Power Plants Pressure Rates" (Atch 1) and echoed by the FERC's Office of Enforcement's report to the FERC Commissioners on Increasing Costs in Electric Markets, presented on June 19, 2008 (Atch 2). URS has more current information and experience with this type of work, and they developed a revised estimated project cost based on their experience with such projects and on bids received from the four major system vendors (Scrubber, Stack, Material Handling, and Waste Water Treatment Islands).

3. Approximately 60% to 70% percent of the revised project cost is now based on firm contracts or firm bids PSNH has received. Only small system and interconnection field systems (electrical, ductwork, piping, yard work, etc.) have yet to be finalized by bids. If bids in hand are not acted on in a timely manner, such delay in execution of contracts can and will result in a delay in project completion and higher costs.
4. URS has 30 engineers currently working on the project in the following areas:
 - a. Electrical engineering
 - b. Civil engineering
 - c. Structural engineering
 - d. Controls
 - e. Fire Protection
 - f. Estimators
 - g. Schedulers
 - h. Draftsmen.
5. URS's efforts are approaching peak workload. This is a critical time in their efforts and any upset will create risk of delay and added cost.
6. Current work activities include site preparation, planning, and design. Once the shovel is in the ground, construction activities will go on for approximately four years. Because there will be more than 300 people working on the project at peak periods, the work must be carefully planned and performed. Construction will be performed by union craft labor, and an organized labor National Maintenance Agreement has been executed to ensure availability of workers and eliminate the potential for labor disputes as well as to prioritize safety on the job.
7. Parts lay-down and storage areas must be developed, site trench layout for electrical and piping systems need to be designed, and contractor parking and access paths need to be built.

F. Current Procurement and Construction Activities

1. PSNH has been actively engaged in negotiating contracts for various aspects of the project. PSNH has completed bid evaluations for the waste water treatment system and material handling system and those contracts are under negotiation. Bidding is currently in progress for items like the construction power electrical switching panel, booster fans and motors, and a new electrical substation.
2. Negotiations are about to be finalized on the scrubber and chimney. However, as noted in the Motion to Accelerate Schedule filed with the Commission on August 25th, PSNH and its corporate parent, Northeast Utilities, cannot continue to commit additional dollars to the scrubber project until the Commission determines its actions in this inquiry. PSNH will initiate discussions with various bidders and contractors to seek ways to continue to allow limited critical path work to proceed, if possible. However, as stated above,

escalating costs for global commodities such as steel and cabling make it likely that any delay in the receipt of Commission action will increase the cost of the project.

3. PSNH has also been designing and procuring equipment for the two substations that will be constructed to support the project. One substation is replacing an existing substation and will eventually be used for construction and a second larger substation will be needed to provide power to the scrubber once it is operational.
4. Site drawings have been developed to show new gates, new access roads, the construction guard house, office trailer locations, new parts lay-down and storage locations, security, and first aid locations. Work is progressing on soil borings to support foundation design, site surveys are being conducted for general equipment locations, and extensive underground surveying is being performed to locate all buried items.
5. Other current activities include developing specifications for booster fans and duct work, designing yard fire protection systems, conducting noise studies, and performing electrical usage studies. Myriad other tasks are also currently being performed in order to successfully complete the project.

G. Permitting Activities

1. The permitting activities began with submittal of the Temporary Air Permit application submitted to NHDES on June 7, 2007. NHDES has indicated that it will facilitate the permitting process however possible and has offered to provide a staff liaison to assist.
2. Other permitting activities have occurred over the last six months and are ongoing. Most notably, PSNH must receive approval from the Town of Bow. PSNH currently expects to receive the necessary approvals within the next few months.

II. PROJECT COST ESTIMATE

A. PSNH, in consultation with URS, has developed a revised project cost estimate of \$457 million. This cost equates to approximately \$830 per kW for all of the “affected sources” subject to the emissions limitations of the Scrubber Law (RSA 125-O:12, I) or \$1,054 per kW installed for Merrimack Station alone. This estimate includes the cost of the project, project management costs, AFUDC, indirect costs, and contingency. Confidential Attachment 3 hereto provides a detailed breakdown of project costs.

B. The current project cost estimate is in-line with recently published information on other multiple unit scrubber installations occurring elsewhere in the country. SNL Financial reported in their July 8, 2008 edition that the Wisconsin PSC had given verbal authorization for Wisconsin Energy Corp to proceed with its plans to install Scrubber and Selective Catalytic Reduction technologies to its Oak Creek units 5-8, a total of 525 MW’s of existing Coal fired generating capacity at a cost of \$774 Million. While this cost includes the addition of two emissions reduction technologies, the installed cost equates to \$1,474 per kW at Oak Creek.

III. EFFECT OF CLEAN AIR PROJECT ON ENERGY SERVICE RATES

A. PSNH has assured the cost of energy produced by Merrimack Station will remain lower cost for customers than reasonable potential alternatives, even when the costs of the Clean Air Project are included. An analysis consisting of a detailed net present value of revenue requirements including capital and operating costs over the expected 15 year depreciation life of the scrubber demonstrates the continued economics of installing the scrubber provides this assurance. The spreadsheets which contain this analysis are included as Attachment 4 to this filing.

B. The primary assumptions used as inputs to the revenue requirements analysis include:

Capital cost: \$457M
Capital structure: 47.23% Equity, 52.77% Debt
Assumed Return on Equity: 9.81% (PSNH's current allowed ROE on generation)
In-Service Date: July 1, 2012
Coal cost: \$4.82 per Million BTU escalated at 2.5% per year for the period of the analysis
RGGI or equivalent CO2 allowance cost: \$7 per ton escalated at 2.5% per year for the period of the analysis

Utilizing these inputs produced the following summary results:
First year bus bar cost: \$94.55/MWh
Levelized (15 year) bus bar cost: \$99.28/MWh

C. Using the 2012 - 2027 average bus bar cost, the effect that the Clean Air Project will have on energy service rates is estimated to be approximately one-third of a cent per kWh (1/3¢/kWh). In the first year of operation, the year with the highest cost impact due to the highest value of undepreciated plant, absent any rate-smoothing initiatives, the impact on energy service rates is estimated to be approximately one-half cent per kWh (1/2¢/kWh).

D. Sensitivity analyses were conducted to test the impact of changes to each of the key assumptions (capital cost, coal cost and equivalent CO2 allowance cost) on the overall bus bar cost of Merrimack Station. These sensitivity analyses indicated the economics of the project are most sensitive to variations in the future price of coal, and far less sensitive to variations in the capital cost or equivalent CO2 allowance cost.

IV. EFFECT ON ENERGY SERVICE RATES IF MERRIMACK STATION IS RETIRED

A. The Commission's Secretarial Letter requires "an analysis of the effect on energy service rates if Merrimack Station were not in the mix of fossil and hydro facilities operated by PSNH." Three alternatives were chosen for this analysis. These comparison cases included analyses over the time frame of 2012 through 2027 of the following options:

1. Purchase of energy and capacity to replace the equivalent of Merrimack Station through a “Cost of Service” contract with new base load coal fired generating station;
2. Purchase of energy and capacity to replace the equivalent of Merrimack Station through a “Cost of Service” contract with a new combined cycle natural gas fired generating station; and
3. Purchase of energy and capacity to replace the equivalent of Merrimack Station through market purchases.

B. The 2012 through 2027 analysis period was chosen to coincide with the anticipated 15 year depreciable life of the scrubber, as defined in the base case. Cost of service style contracts, though not routinely in place in ISO-New England at this time, provided a presumed floor for total operating costs for a new coal or natural gas fired unit, employing a presumed “regulated return” and debt/equity ratio consistent with the PSNH values used in the base case, of operating with the scrubber.

C. PSNH undertook a data review of energy trade press and publications to determine current estimates of newly proposed coal and natural gas combined cycle generating stations.

1. For recently proposed coal plants, PSNH found references to the Virginia City Hybrid facility (Attachment 5). This is a 585 MW fluidized bed facility with a currently reported capital cost of \$1.8 billion. A net present value of revenue requirements model was created that employed this capital cost, the PSNH capital structure and anticipated ROE, and for the sake of consistency, coal price and equivalent CO2 allowance cost assumptions consistent with those used in the scrubber analysis. FERC has estimated significantly higher costs for construction of new coal generation, as set forth in Attachment 2.
2. For recently proposed combined cycle natural gas plants, PSNH found references to the Middletown Kleen plant, a 620 MW plant with a currently reported financing of \$985 Million (Attachment 6). This cost is consistent with the FERC estimated cost of new generation contained in Attachment 2.

D. For future market conditions, PSNH examined the forward market for natural gas delivered to New England and applied a “heat rate” factor to translate the raw delivered fuel cost to electrical energy. To the energy cost derived from these calculations, an adder was applied for ISO-NE capacity value, which would be required to replace the lost capacity value existing with the operation of Merrimack Station.

E. In the market purchase and combined cycle natural gas scenarios, a year 2012 price of \$11 per MMBtu was used as the first year price of natural gas. This value was escalated at a rate 2.5% per year for future years of the analysis.

F. The results of these analyses indicated that the new coal and new combined cycle natural gas plants would have bus bar costs of about \$135 per MWhr. For the market purchase alternative the sum of the energy and capacity costs resulted in a total cost per MWhr value of \$107.10. To this amount, PSNH calculated and added a recovery of the estimated \$63 Million of stranded assets (undepreciated plant and inventories) that would exist at Merrimack Station over a period of five years (as required by RSA 369-B:3-a). The overall cost of a market purchase plus retirement scenario produced a levelized bus bar cost of \$107.83/MWhr, which is nearly 15% higher than the cost calculated to operate Merrimack Station in the first year after completion of the Clean Air Project.

G. From these results, PSNH has computed that the average net effect on energy service rates if Merrimack Station is retired and replaced by market purchases would be 0.73 cents/kWh of additional costs to customers over the period of 2012 through 2027.

H. Comparison and sensitivity analyses were conducted using the scrubber and market purchase plus retirement scenarios. Under the base case assumptions the scrubber scenario produced a nominal benefit to customers of \$583 Million; \$132 Million benefit on a net present value basis, over the depreciable life of the scrubber. Additional net present value benefit of \$34.2 Million is attributable to customers associated with the scrubber, as the charges for stranded assets are avoided in the scenario where the scrubber is installed and the station continues to operate.

I. As a result of these analyses, PSNH has concluded that installation of the scrubber, and continued operation of Merrimack Station is the best economic alternative for the benefit of its customers.

CONCLUSION

PSNH has historically provided Clean Air Project status reports to the Legislature and the committees having oversight responsibilities for this project, NHDES, Office of Consumer Advocate, and this Commission; we continue to be ready and willing to meet with the Commission Staff and OCA to discuss the Clean Air Project whenever requested.

PSNH urges the Commission to act promptly in this docket so that the project work can resume without further delay. PSNH is at a critical juncture in the project since some contract work is on hold, while other contracts are not being executed pending the outcome of the Commission's inquiry. Any delay to the project will increase its cost and therefore result in higher costs to customers once the project is in service.

Attachment 1

The Wall Street Journal

Costs to Build Power Plants Pressure Rates

By REBECCA SMITH

May 27, 2008; Page B3

Construction costs for power plants have more than doubled since 2000, according to new index data to be released Tuesday, and inflationary pressures will continue to put the squeeze on electricity prices.

The findings are bad news for consumers and utilities alike, and help explain why power-plant development has become something of a quagmire in the U.S. -- with no type of plant emerging as a reasonably priced option that can meet rising demand for electricity.

The analysis comes in the form of a price index from Cambridge Energy Research Associates Inc., a research and consulting firm in Massachusetts that is a unit of IHS Co. Similar to the consumer-price index, it calculates the cost of building new power plants based on the cost of materials and other factors.

"Costs for labor, materials, equipment and design and engineering -- all are up," said Candida Scott, senior director of cost and technology for CERA. As a result, the cost of building new plants is up 19% from a year ago and up 69% from 2005.

The skyrocketing price tag comes as the world is roiled by surging electricity demand and as it weathers various supply disruptions, some caused by what appear to be changing weather patterns.

In all, CERA says, the construction of new generating capacity that would have cost \$1 billion in 2000 would cost \$2.31 billion if construction began today.

According to the index, all types of power plants are feeling the pinch. Components and construction materials for nuclear power plants scored the biggest run-up in costs, up 173% -- nearly tripled -- since 2000. Most of that increase has taken place since

2005. Costs for turbines used to generate wind power more than doubled, at 108%, and natural gas-fueled and coal-fired plants saw their capital costs nearly double, up 92% and 78%, respectively.

If anything, the index likely minimizes the rising cost of building power plants, because it doesn't factor in financing costs, and it doesn't include fuel costs. But as prices for coal, natural gas and uranium have risen, they have put added pressure on the operating costs of many companies, and those increases are pushing up electricity prices, too.

The upshot, Ms. Scott said, is that prudent utility regulators should make sure they are basing future decisions on data that are updated frequently, because even calculations less than a year old can be dangerously out of date.

One practical consequence of the inflationary pressures is that they make it harder for plant developers, such as utilities, to lock in prices as part of big projects. The longer the time period involved in construction, the bigger the risks inherent in any fixed-price contracts. Instead of paying for "time and materials," many firms are seeking contracts in which prices are tied to various indexes.

In some states, utilities are rolling out big programs to install millions of "smart" electric meters in the belief they will help cut electricity consumption and reduce the need for new power plants. Oncor, a big utility in Texas, last week said it plans to install three million advanced meters on homes and small businesses, giving consumers a tool to help get a handle on electricity use.

The CERA report underscores the tough choices facing utilities and regulators. Both are interested in finding the technology that will be most affordable.

That is especially difficult, since big power plants often remain in service 40 to 60 years.

One commodity whose cost has risen markedly is steel, a important material for building both power-plant structures and power-generating equipment. The cost of iron ore, needed to make steel, rose about 10% in 2007 but has surged 65% in recent months. Shortages of coking coal, also needed to make steel, have been another problem in Australia, a big export

country. CERA said steel costs could rise 40% to 60% this year.

A weak dollar also is a factor, since roughly 30% of equipment needed by the U.S. power industry comes from outside the U.S.

The analysis is of interest because it is difficult to get solid cost data until after plants have been built. Even then, data aren't always available.

Attachment 2

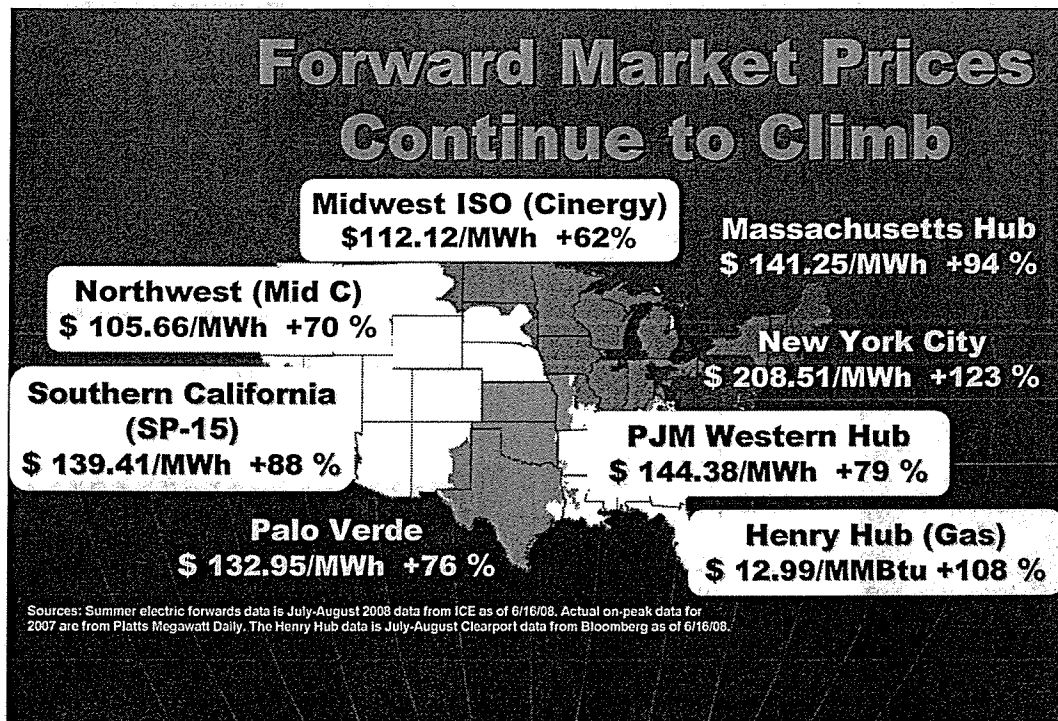
FERC's Office of Enforcement's Report to the FERC Commissioners on Increasing Costs in Electric Markets, presented on June 19, 2008



Increasing Costs in Electric Markets

- **Item No.: A-3**
- **June 19, 2008**

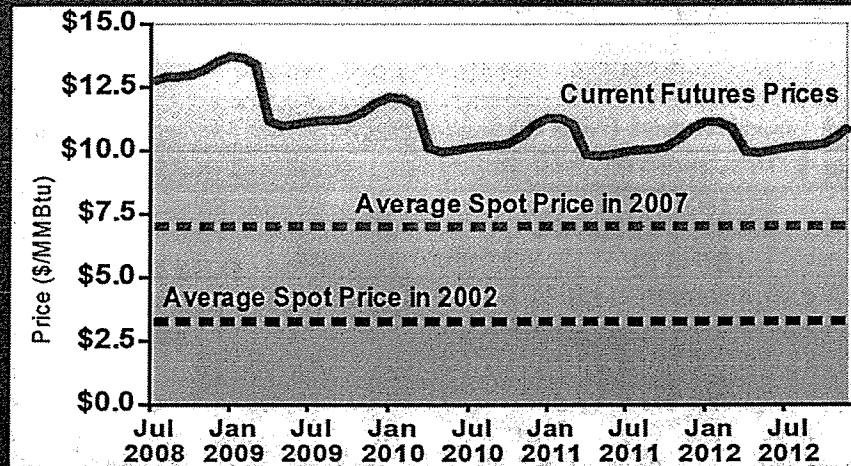
Mr. Chairman and Commissioners, good morning. I am here to present the Office of Enforcement's assessment of likely electricity costs in coming years. This presentation will be posted on the Commission's Web site today.



At last month's meeting, we reported that forward market prices for electric power are much higher than the prices we actually experienced last year. This trend is universal around the country. The slide shows the increases in forward prices for July and August as of this week. They have risen further during the last month as natural gas prices have continued to rise.

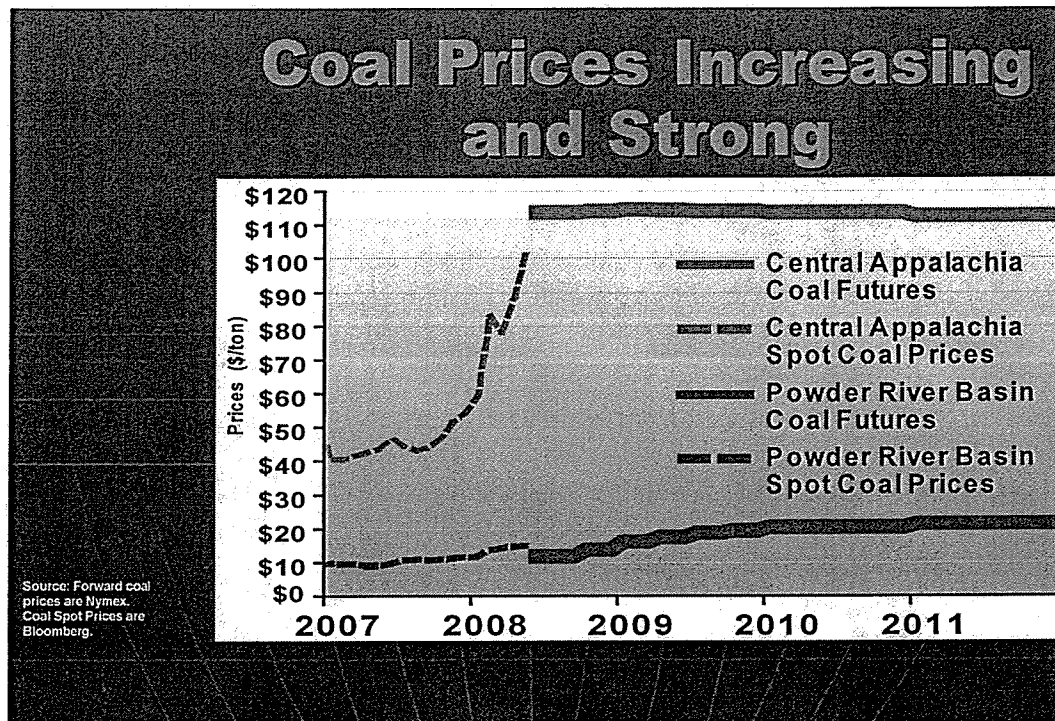
There is little reason to believe that this summer is unusual. Rather, it may be the beginning of significantly higher power prices that will last for years. The purpose of this presentation is to explain why that is so. The two major factors pushing the costs of electric generation higher are increased fuel costs and increased cost for new construction. These factors affect all parts of the country. That is, higher future prices are likely to affect all regions.

Forward Gas Prices Remain Strong



Source: Forward gas prices are Nymex. Annual average spot gas prices are Platts.

The primary reason for the electric power price increases this year is high fuel prices. All current market indications suggest that they will remain high. Let's look at natural gas, which often determines prices because it is so frequently on the margin. The slide shows futures prices for the next few years. The futures prices are somewhat lower for 2009 than for 2008. Even so, they are a good deal higher for all years than the prices people actually paid last year, and they are much higher than the prices many of us remember from earlier in the decade. The implication is that markets anticipate continuing high prices, even though they know that the United States has seen a significant increase in domestic natural gas production over the last year and a half. The anticipation of further high prices makes more sense when one considers the likely increase in gas demand for generation and the global nature of competition for LNG.



Natural gas is not the only important fuel in setting electric power prices. Coal still powers half of all power produced in the U.S. In some markets – the Midwest and the Southeast, for example – coal is often on the margin and plays a major role in setting average prices over time. The slide shows that the price of one key form of coal – Central Appalachian coal - has risen rapidly over the last year. Forward markets show continuing high prices for Central Appalachian coal for the next three years. This reflects, in part, the growing global market for coal and the relatively weak US dollar. Coal imports are becoming more costly and coal exports more profitable, both of which contribute to higher prices in the United States.

I should mention that other coal prices behave somewhat differently from Central Appalachian coal. For example, a majority of the overall cost for Powder River Basin coal comes from transportation rates and can be more difficult to see. Nonetheless, the implication of the prices we can see is that electric power prices are likely to increase even where coal is on the margin. This may take place somewhat differently from the way natural gas price increases flow through into power prices. Generally, companies buy coal under fairly long term contracts, so there may be a lag before the higher prices show their full effects. But the effects are coming.

Net Natural Gas Generation by Region (TWh)

Region	2000	2007	Difference
Northeast	66.3	103.9	37.6
RFC	41.0	64.5	23.5
SERC	86.9	150.5	63.6
FRCC	42.0	96.7	54.7
ERCOT	155.9	163.3	7.4
Midwest	44.2	62.8	18.5
WECC-Rockies and SW	28.1	77.6	49.5
WECC-CA and NW	115.4	129.7	14.4

Source: Derived from Energy Velocity (differences due to rounding).

While both natural gas and coal prices have increased rapidly, natural gas is increasingly important in every region of the country. The slide shows that even in regions where coal has historically dominated – most noticeably in SERC– natural gas usage has grown substantially since 2000, up 63.6 TWh in 2007, more than in any other region. Noticeable increases also occurred in FRCC, which has flexibility to burn either gas or oil at many facilities, and also in the Rockies and Southwest where demand continues to grow considerably.

NERC Net Load Projections through 2016

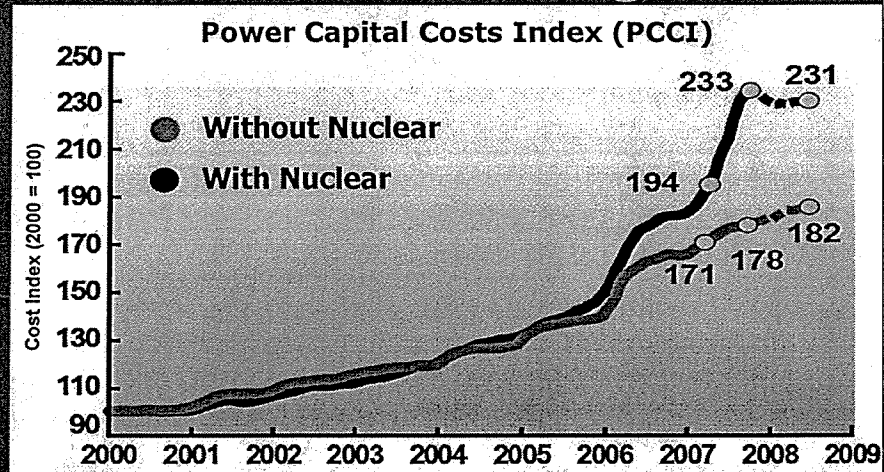
Region	Total Difference (GW)	Percent Change
Northeast	9.7	17
RFC	23.2	13
SERC	28.2	14
FRCC	7.1	15
ERCOT	14.7	24
Midwest	17.2	21
WECC-Rockies and SW	7.6	25
WECC-CA and NW	10.9	10
Total	108.8	14

Source: Derived from NERC 2007 Long Term Reliability Assessment, Oct. 2007 and NERC data request, June 2008.

The second major factor that will put upward pressure on electric power prices is the increasing cost of new construction. This effect is particularly important because the country is entering a period when we will need to make substantial new investments, especially in generation.

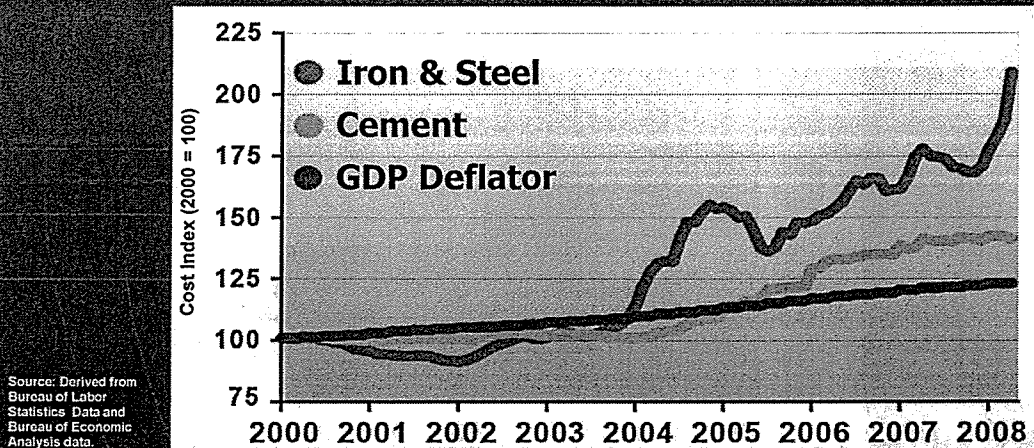
Natural gas fueled most of the last great wave of generation investment, which occurred between 1995 and 2004. In recent years, demand in most regions has gradually caught up with the capacity built around 2000. Looking forward, demand will continue to grow, and the need for new capacity will become ever more acute and ever more widespread. The slide shows NERC's expectation of peak net load growth in different regions for the next 10 years. We at the Commission are not in the business of forecasting, so I would just say this: There are legitimate reasons to be unsure about exactly how much new generation the country will need in the coming years. For one thing, higher prices will themselves discourage some power demand. Nonetheless, a significant level of demand increase seems virtually inevitable. So will be the need to build more capacity.

Capital Costs Increasing



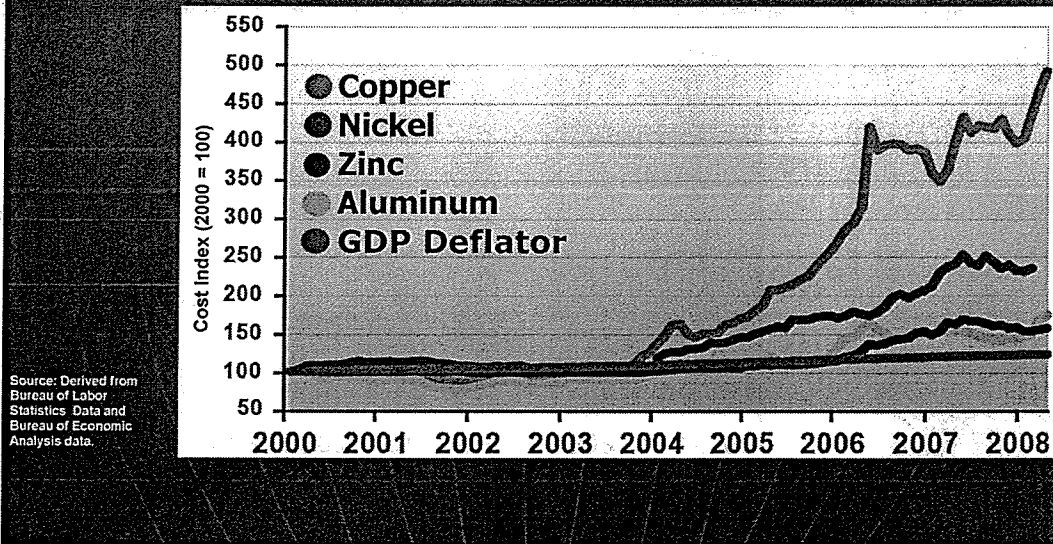
The need for new generation is important because new construction is becoming more expensive – quite aside from fuel price increases. Cambridge Energy Research Associates – CERA – produces an index of costs for the main inputs that go into building new generating plants. The slide shows how that index has almost doubled since 2003. The increase in nuclear plant inputs has risen even faster. Much of this cost increase results from rising global demand for basic materials. Part of it also comes from shortages of people to do key engineering and construction jobs. In any case, the implication is that, we will pay more, not less, for the next round of construction.

Primary Construction Costs Increasing



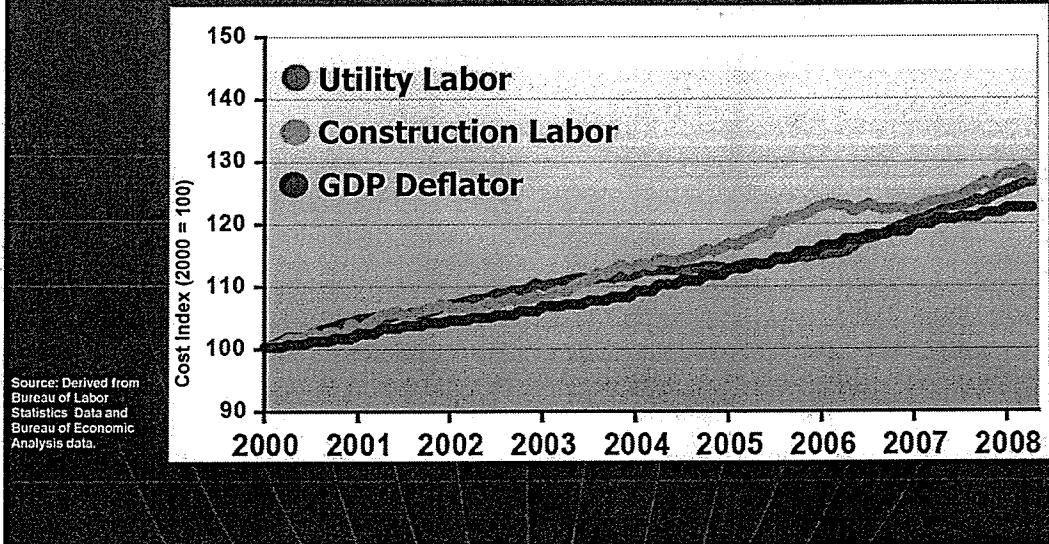
Let's look at some of the reasons that CERA's index is rising so rapidly. The slide shows two of the primary construction materials for electric generating plants – concrete is on the blue line and iron and steel on the red line. As you can see, the prices of both have been rising recently – especially steel, which is now more than twice as expensive as it was four years ago. Rising costs for iron and steel will also affect fuel prices for the power industry. For example, natural gas wells and pipelines both use substantial amounts of steel, so natural gas costs will also reflect rising iron and steel prices.

Secondary Construction Costs Increasing



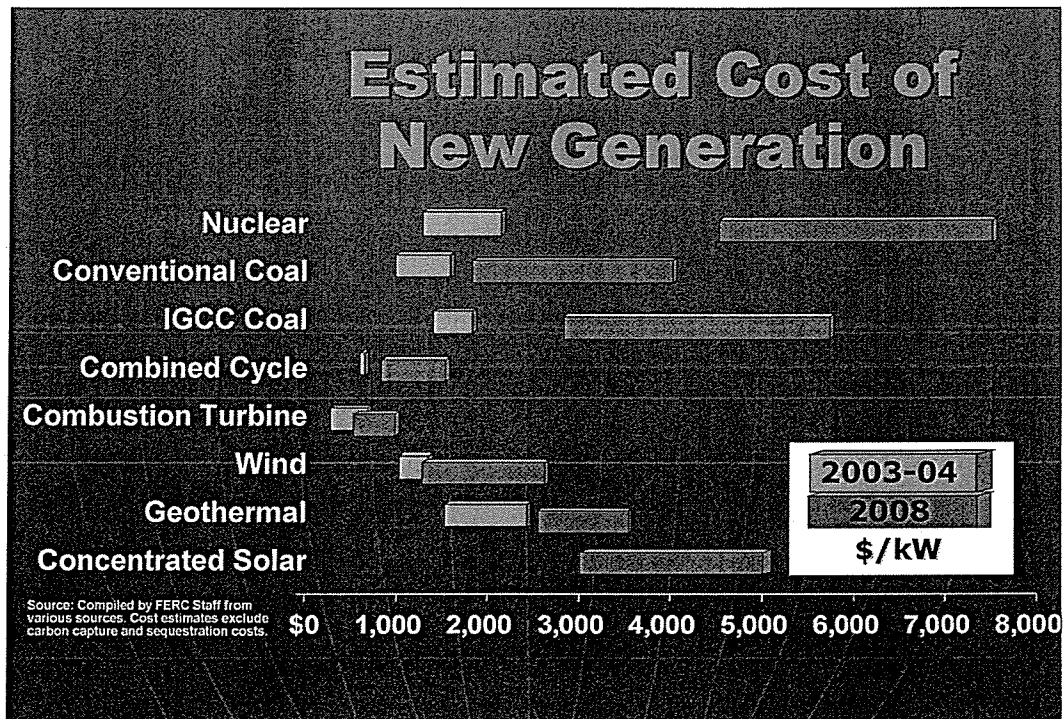
Of course, new generating plants require many other basic commodities. The slide shows the pricing for four key metals that go into generators. As you can see, all of these metals are increasing in price. The one that stands out is copper, up more than five times over the past four years. Indeed, copper is now so valuable there are reports of copper thieves cutting live cables to steal the metal.

Labor Costs Increasing



Labor costs are also increasing. Perhaps the most frequently cited labor shortage is that for nuclear engineers. It has been a full generation since the nation built its last nuclear plant. Most of the engineers who worked on those plants are near retirement – and many have moved on to other occupations. In fact, the labor shortages are more widespread than just nuclear engineers. The slide shows that there has been about a 27% nominal change in average hourly earnings for both construction labor generally and for non-construction utility labor since 2000, outpacing inflation by over 4% for the same period.

In practice, the American labor market is quite responsive to market forces, so short-term labor shortages tend to be self-correcting over the mid-term. Still, there is no quick way to force several years of education into six months, or decades of experience into a year or two.



What do all these cost increases mean for the cost of building a new generating plant?

No one knows precisely. It's difficult to get consistent and trustworthy numbers about plant costs, both because they are commercially sensitive and because the assumptions behind them vary greatly. The numbers reflected on the slide come from a variety of sources and include different assumptions about, for example, location or exactly what facilities are included in the estimate. To take one example: Two recent nuclear procurements in South Carolina and Georgia produced cost estimates of \$5,100 and \$6,400 per kW, respectively, for the same technology. We have been told that most of the difference may be due to different uses of Allowances for Funds Used during Construction – AFUDC.

Despite the difficulties in being precise, the slide represents a good general indication of how capital costs have been changing. If anything, the cost estimates may be lower than the final costs of projects, if input costs continue to rise.

It's also important to remember that these cost estimates cover only capital costs. They do not include fuel costs, which as we've seen earlier will be a large factor for both natural gas and coal-fired plants. To the extent that plants do not have major fuel costs - they may be more competitive over their life cycles than would be suggested just looking at the capital costs. That would affect renewables and, to a degree, nuclear plants.

Similarly, these estimates generally do not include a full accounting of major risk factors, especially those affecting coal and nuclear plants. Both of these technologies have long lead times. That increases the chance that market conditions will change before they are complete and adds to the financial risk of building them. Nuclear plants also have risks associated with both decommissioning and waste fuel disposal. And coal plants have risks associated with the future treatment of greenhouse gases. Of course, relatively new technologies like wind and the new approaches to nuclear also have some risks, simply because they do not have the same track record of more mature technologies.

Climate Change Debate Affects the Market

- **Uncertainty about future carbon regime is a key factor**
- **Affects coal most of all**
 - Greater carbon emissions
 - Many plant cancellations
- **At the least, coal builds will be delayed**

Climate change has become an increasingly urgent national issue. The debate over how to address carbon dioxide emissions is lively and has already affected how companies think about investments. Until recently, rising natural gas prices made coal plants attractive. However, the national uncertainty about carbon policy has made investing in coal plants more risky. Without carbon capture or sequestration, coal unit emit about four times as much carbon as natural gas combined cycle units per MWh. Since January 2007, 50 coal plants have been canceled or postponed. Only 26 remain under construction.

Whatever the eventual result of the climate change debate, costs of producing power from both coal and natural gas are likely to increase. Moreover, as long as future climate change policy is unclear, market participants will have a considerable disincentive to invest in coal plants. Even when the issues are resolved, it remains an open question how competitive coal-fired generation will be, and it would take another four to eight years to build new coal-fired capacity.

Natural Gas is Critical in the Mid-term

- **Coal and Nuclear – Long lead times**
- **Renewables – Important but do not fill capacity needs (yet)**
- **Demand Response and Energy Efficiency – Key ingredients**
- **Natural Gas – The necessary technology for the immediate future**

Over the long run, the nation can meet its increasing need for generation in several ways. But for the next few years, the options are more limited, and natural gas will be crucial.

The lead times for both nuclear and coal units mean that they will not supply a significant amount of new capacity for nearly a decade.

Most people expect renewables to supply an increasing proportion of the nation's power. For the next few years, wind will almost certainly account for a large share of generation investment and will account for a growing share of overall generation. Wind power has no fuel costs, and so will generally operate when available. However, wind is a variable, weather-dependent resource. As a result, it will not make up as strong a share of the Nation's capacity needs over the next few years. Other renewables are becoming more competitive. Geothermal power is already an important resource in the west, and concentrated solar is becoming economically attractive in desert areas like the Southwest. But these sources are likely to remain relatively small in the national picture over the next few years.

Both demand response and energy efficiency will be important – I'll talk more about them on the next slide – but they are unlikely to eliminate the need for new capacity.

Overall, the most likely outcome is that natural gas will continue to be the leading fuel for new capacity over the next half decade. For example, the consulting firm, Wood Mackenzie estimates that in a carbon constrained environment, gas consumption for power will increase by 69 % by 2017. That's in addition to the 55% increase we've seen since 2000.

Potential Responses to High Prices

- **Economic Demand Response**
- **Energy Efficiency/Conservation**
- **Technological Innovation**

Over the years, we have learned repeatedly that people respond to prices. In the case of electric power, this is likely to take several forms.

First, there is likely to be more demand response. In the simplest terms, high prices at peak will lead some customers – both businesses and others – to prefer to save their money rather than use power. In fact, the first round of demand response may be both the cheapest and fastest way to improve capacity margins on many systems. The best cost estimates for the first rounds of demand response suggest that it should be available for about \$165/kW, far less than any generation side options. The results of ISO-NE's first Forward Capacity Market auction last year corroborates the economic importance of demand response - 7.4 % of the accepted bids were for demand response. However, there are impediments that limit the full use of demand response. For example, most customers do not have the option to respond directly to real-time prices. As a result, they are unlikely to reduce peak consumption as much as they might prefer to if they could take advantage of the price.

Second, customers are likely to be more energy efficient. While few customers see real-time prices, most get an average price over a month. As a result, high prices give them considerable incentive to reduce their overall consumption of power – though no more at peak than at other times. That is, energy efficiency is essentially a substitute for baseload capacity, while demand response is a substitute for peaking capacity. Energy efficiency is also likely to be economically important. Cost estimates show that the first round of energy efficiency may be available for about 3 cents/kWh. At

Continued on next page

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current prices, supplying that same kWh from a combined cycle gas plant would cost 9 cents just for the fuel. Adding to the likelihood of greater energy efficiency is that many states have adopted fairly strong energy efficiency standards.

Third, innovators see higher prices as an opportunity. By the nature of things, it's hard to predict what innovations will succeed. The electric industry has a number of technologies that might take off – including concentrating solar power, hydrokinetic power, and vehicle to grid technologies. In addition, distributed generation is becoming more important, and may continue to do so for both cost and emissions reasons. In other newly competitive industries, such as telecoms and natural gas, innovations have produced large changes, sometimes quickly. Given continuing high electric prices, the electric power industry may see similar results.



Increasing Costs in Electric Markets

- **Item No.: A-3**
- **June 19, 2008**

That concludes our presentation. We welcome comments and questions.

Confidential Attachment 3

Detailed Project Cost Breakdown

*Confidential attachment filed pursuant to "Motion for Protective Order"
pursuant to the Commission's August 22, 2008 Secretarial Letter*

Attachment 4

DETAILED NET PRESENT VALUE OF REVENUE REQUIREMENTS

Debtful Net Present Value of Revenue Requirements

	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009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Attachment 5

SNLi article, July 1, 2008

[<<Return to Previous Page](#)**Power & Coal - Infrastructure Development****Dominion starts construction on Virginia clean coal plant***July 01, 2008 8:14 AM ET*By [Adnan Munawar](#)

Dominion Virginia Power said June 30 it began construction on the 585-MW [Virginia City Hybrid](#) clean coal plant in Wise County, Va.

Construction of the plant is scheduled to take four years, Dominion said.

The plant is part of Dominion Virginia Power's response to a projected growth in demand for electricity of 4,000 MW from its customers by 2017.

The Virginia Department of Environmental Quality issued the necessary air permits following the unanimous [approval](#) June 25 by the State Air Pollution Control Board. The Virginia State Corporation Commission [approved](#) the \$1.8 billion project on March 31.

The circulating fluidized bed unit will use coal and up to 20% biomass for its fuel. The station will provide nearly 1,000 jobs during construction and require a permanent staff of more than 75 people once it begins operating, the company said.

Dominion Virginia Power is the trade name of [Virginia Electric and Power Co.](#), a subsidiary of [Dominion Resources Inc.](#)

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Attachment 6

SNLi article, June 26, 2008



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Power & Natural Gas - Operations and Strategy

EIF raises financing to build 620-MW Kleen plant in Connecticut

June 26, 2008 2:16 PM ET

By [Jay Hodgkins](#)

[Energy Investors Funds Group](#) on June 26 said its United States Power Fund II LP and United States Power Fund III LP have raised construction financing for the Kleen Energy Systems LLC power plant in Middletown, Conn., known as [Middletown Kleen](#).

The financing totaled \$985 million of senior secured bank loans and a revolving credit facility, the company said. EIF said it is the majority owner of the project, with the balance owned by White Rock Holdings Associates LLC.

Goldman Sachs & Co. acted as joint lead arranger and sole book runner for senior secured loans raised to help finance the construction of the project. The bank loans were rated as investment grade at BBB- by Fitch Ratings, EIF said.

"With this construction financing in place, we're able to build a first-class power plant to serve the people of Connecticut," said William Corvo of Kleen Energy Systems. "This plant will provide clean, economical power to an area in need of new power generation."

Construction of the project began in February and is expected to be completed in mid-2010, EIF said. The project will be operated by [Itochu Corp.](#) subsidiary [North American Energy Services](#) and will be managed by Power Plant Management Services.

The Kleen plant will be a 620-MW, combined-cycle natural gas-fired facility. The project won a competitive request for proposals process run by the state of Connecticut and has entered into a 15-year capacity agreement with [Northeast Utilities](#) subsidiary [Connecticut Light and Power Co.](#) for the electricity produced by the plant.

The project has also finalized a multiyear tolling agreement, EIF said.

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**THE STATE OF NEW HAMPSHIRE
before the
PUBLIC UTILITIES COMMISSION**

Public Service Company of New Hampshire
Merrimack Station Scrubber Project
Request for Information

Docket No. DE 08-103

MEMORANDUM OF LAW

Pursuant to the Commission's Secretarial Letter dated August 22, 2008, Public Service Company of New Hampshire ("PSNH" or the "Company") provides this Memorandum of Law concerning the legal mandate placed on the Company by the General Court to install a wet flue gas desulphurization system ("scrubber technology") at PSNH's Merrimack Station in Bow.

On June 8, 2006, "AN ACT relative to the reduction of mercury emissions," 2006 N.H. Laws Chapter 105 (the "Scrubber Law") took effect. By that law, the General Court imposed an unmistakable legislative mandate for PSNH to install and have operational scrubber technology to control mercury emissions at Merrimack Units 1 and 2 no later than July 1, 2013. RSA 125-O:13, I. Three years earlier, in 2003 N.H. Laws, Chapter 21, the legislature had enacted RSA 369-B:3-a. RSA 369-B:3-a authorizes PSNH to modify its generation assets upon a finding that such modifications are "in the public interest of retail customers of PSNH to do so." In its Secretarial Letter, the Commission requested this Memorandum of Law to address "the nature and extent of the Commission's authority relative to the Merrimack Station scrubber project" in light of the statutory requirements contained in RSA 125-O:11, *et seq.*, and RSA 369-B:3-a.

Subject to acknowledged constitutional limitations, the regulation of utilities and the setting of appropriate rates to be charged for public utility products and services is the unique province of the legislature. *Duquesne Light Co. v. Barasch*, 488 U.S. 299, 313 (1989); *The Minnesota Rate Cases*, 230 U.S. 352, 433 (1913); *LUCC v. Public Serv. Co. of N.H.*, 119 N.H. 332, 340 (1979). The Public Utilities Commission (“PUC”) derives its authority from powers delegated by the legislature. *Appeal of Richards*, 134 N.H. 148, 158 (1991).

The “nature and extent of the Commission’s authority” has been clearly set forth in numerous New Hampshire Supreme Court decisions. *Petition of Boston & Maine Railroad*, 82 N.H. 116 (1925); *State of New Hampshire v. New Hampshire Gas & Electric Co.*, 86 N.H. 16 (1932); *H.P. Welch Co. v. State*, 89 N.H. 428 (1938); *Blair and Savoie v. Manchester Water Works*, 103 N.H. 505 (1961); *State v. New England Telephone & Telegraph Co.*, 103 N.H. 394 (1961); *Appeal of Public Service Co.*, 122 N.H. 1062 (1982). *See also*, *The Manchester Press Club v. State Liquor Comm’n*, 89 N.H. 442 (1938).

As early as 1925, the Court held:

The public service commission is an agency of limited powers and authority. While the legislature may delegate to such an agency certain of its own powers and authority, ***the exercise of such delegation does not extend beyond expressed enactment or its fairly implied inferences.*** The establishment of such an agency is of a special rather than general character, and ***power and authority not granted are withheld.***

Boston & Maine Railroad, *id.* at 116 (emphases added).

The Court, citing to this 1925 precedent, re-affirmed the limited authority of the PUC in *Appeal of Public Service Co.*:

The PUC is a creation of the legislature and as such is endowed with *only* the powers and authority which are *expressly granted or fairly implied by statute*. *Petition of Boston & Maine Railroad*, 82 N.H. 116, 116, 129 A. 880, 880 (1925). *Consequently, the authority of the PUC...is limited to that specifically delegated or fairly implied by the legislature and may not be derived from other generalized powers of supervision.*

Appeal of Public Service Co., *id.* at 1066 (emphases added).

Recently, the Commission itself noted these restrictions on its power and authority. In *Re RCC Minnesota, Inc.*, 88 NH PUC 611 (2003), discussing the Commission's authority to regulate cellular carriers, the Commission found:

The New Hampshire Supreme Court has held that "[t]he PUC is a creation of the legislature and as such is endowed with only the powers and authority which are expressly granted or fairly implied by statute." *Appeal of Public Service Company of New Hampshire*, 122 NH 1062, 1066 (1982). Consequently, *the Commission must look to its statutory authority to determine whether it has jurisdiction* over cellular providers. RSA 362:6 expressly states that it does not. A cellular provider is not a public utility, and its "services shall not be subject to the jurisdiction of the public utilities commission pursuant to this title." RSA 362:6. *We therefore must conclude that the Commission does not have jurisdiction over any cellular carrier because the New Hampshire legislature specifically removed cellular carriers from the jurisdiction of this Commission.*

Re RCC Minnesota, Inc., at 615 (emphases added). *See also, Re Congestion on the Telephone Network Caused by Internet Traffic*, 89 NH PUC 173, 175 (2004) ("It is a well-established principle that this Commission possesses only those powers that are granted to it by the legislature.")

These precedents clearly and consistently note that "the regulation of utilities...is the unique province of the legislature"; the Commission "derives its authority from powers delegated by the legislature"; "[t]he...commission is an agency of limited powers and authority"; and, "the authority of the PUC...is limited

to that specifically delegated or fairly implied by the legislature and may not be derived from other generalized powers of supervision.” These holdings detail the limits of the Commission’s authority and form the bases for any discussion concerning the nature and extent of the Commission’s authority relative to the Merrimack Station scrubber project.

The Scrubber Law, codified at RSA 125-O:11 through 125-O:18, is clear, straightforward, and unambiguous in its mandate, as set forth in the first words of the statute:

Statement of Purpose and Findings. The general court finds that:

I. It is in the public interest to achieve significant reductions in mercury emissions at the coal-burning electric power plants in the state as soon as possible. The requirements of this subdivision will prevent, at a minimum, 80 percent of the aggregated mercury content of the coal burned at these plants from being emitted into the air by no later than the year 2013. ***To accomplish this objective, the best known commercially available technology shall be installed at Merrimack Station no later than July 1, 2013.***

RSA 125-O:11, I (emphases added).

The General Court provided unequivocal notice of the Scrubber Law’s intent in eight such findings in the law’s *Statement of Purpose and Findings*:

I. It is in the public interest to achieve significant reductions in mercury emissions at the coal-burning electric power plants in the state as soon as possible. The requirements of this subdivision will prevent, at a minimum, 80 percent of the aggregated mercury content of the coal burned at these plants from being emitted into the air by no later than the year 2013. ***To accomplish this objective, the best known commercially available technology shall be installed at Merrimack Station no later than July 1, 2013.***

II. The department of environmental services has determined that the best known commercially available technology is a wet flue gas desulphurization system, hereafter “scrubber

technology,” as it best balances the procurement, installation, operation, and plant efficiency costs with the projected reductions in mercury and other pollutants from the flue gas streams of Merrimack Units 1 and 2. Scrubber technology achieves significant emissions reduction benefits, including but not limited to, cost effective reductions in sulfur dioxide, sulfur trioxide, small particulate matter, and improved visibility (regional haze).

III. *After scrubber technology is installed at Merrimack Station, and after a period of operation has reliably established a consistent level of mercury removal at or greater than 80 percent, the department will ensure through monitoring that that level of mercury removal is sustained, consistent with the proven operational capability of the system at Merrimack Station.*

IV. To ensure that an ongoing and steadfast effort is made to implement practicable technological or operational solutions to achieve significant mercury reductions prior to the construction and operation of the scrubber technology at Merrimack Station, the owner of the affected coal-burning sources shall work to bring about such early reductions and shall be provided incentives to do so.

V. *The installation of scrubber technology will not only reduce mercury emissions significantly but will do so without jeopardizing electric reliability and with reasonable costs to consumers.*

VI. *The installation of such technology is in the public interest of the citizens of New Hampshire and the customers of the affected sources.*

VII. Notwithstanding the provisions of RSA 125-O:1, VI, the purchase of mercury credits or allowances to comply with the mercury reduction requirements of this subdivision or the sale of mercury credits or allowances earned under this subdivision is not in the public interest.

VIII. *The mercury reduction requirements set forth in this subdivision represent a careful, thoughtful balancing of cost, benefits, and technological feasibility and therefore the requirements shall be viewed as an integrated strategy of non-severable components.*

RSA 125-O:11 (emphases added).

The Scrubber Law’s mandate that a scrubber shall be installed at Merrimack Station is detailed in the statutory provisions contained in its “Statement of Purpose

and Findings.” In RSA 125-O:13, I, the General Court unequivocally requires PSNH to install a scrubber at Merrimack Station within a set timeframe:

I. The owner [PSNH] shall install and have operational scrubber technology to control mercury emissions at Merrimack Units 1 and 2 no later than July 1, 2013. The achievement of this requirement is contingent upon obtaining all necessary permits and approvals from federal, state, and local regulatory agencies and bodies; however, all such regulatory agencies and bodies are encouraged to give due consideration to the general court’s finding that the installation and operation of scrubber technology at Merrimack Station is in the public interest. The owner shall make appropriate initial filings with the department and the public utilities commission, if applicable, within one year of the effective date of this section, and with any other applicable regulatory agency or body in a timely manner.

(Emphasis added).

The General Court could not be clearer regarding the purpose and intent of the Scrubber Law. *PSNH shall install a scrubber at Merrimack Station as soon as possible.* This mandate is binding not just on PSNH, but also on the Commission. As noted earlier, “the authority of the PUC...is limited to that specifically delegated or fairly implied by the legislature and may not be derived from other generalized powers of supervision.” *Appeal of Public Service Co., supra*, 122 N.H. at 1066. In the Scrubber Law, the General Court has:

- I. Found that “It is in the public interest to achieve significant reductions in mercury emissions at the coal-burning electric power plants in the state as soon as possible.”
- II. Mandated that scrubber “technology shall be installed at Merrimack Station no later than July 1, 2013.”
- III. Found that “the best known commercially available technology is a wet flue gas desulfurization system, hereafter ‘scrubber technology,’ as it best balances the procurement, installation, operation, and plant efficiency costs with the projected reductions in mercury and other pollutants from the flue gas streams of Merrimack Units 1 and 2.”

- IV. Found that “Scrubber technology achieves significant emissions reduction benefits, including but not limited to, cost effective reductions in sulfur dioxide, sulfur trioxide, small particulate matter, and improved visibility (regional haze).”
- V. Found that “The installation of scrubber technology will not only reduce mercury emissions significantly but will do so without jeopardizing electric reliability and with reasonable costs to consumers.”
- VI. Found that “The installation of such technology is in the public interest of the citizens of New Hampshire and the customers of the affected sources.”
- VII. And declared that “The mercury reduction requirements set forth in this subdivision represent a careful, thoughtful balancing of cost, benefits, and technological feasibility and therefore the requirements shall be viewed as an integrated strategy of non-severable components.”

The Scrubber Law does not delegate authority to the Commission to second-guess the mandates and findings of the General Court. There is absolutely no implication within the Scrubber Law that the mandate to install a scrubber at Merrimack Station as soon as possible can be delayed, conditioned, or eliminated in its entirety, by the Commission.

Interpretation of the Scrubber Law is not difficult. Just a few days ago, the Supreme Court issued its most recent holdings on statutory interpretation:

We are the final arbiters of the legislative intent as expressed in the words of the statute considered as a whole. *State v. Langill*, 157 N.H. ___, ___ (decided April 4, 2008). We begin by examining the language of the statute, *State v. Whittey*, 149 N.H. 463, 467 (2003), and ascribe the plain and ordinary meaning to the words used, *Langill*, 157 N.H. at ___. We interpret legislative intent from the statute as written and will not consider what the legislature might have said or add language that the legislature did not see fit to include. *Id.* We also interpret a statute in the context of the overall statutory scheme and not in isolation. *Id.* If a statute is ambiguous, however, we consider legislative history to aid our analysis. *Whittey*, 149 N.H. at 467. Our goal is to apply statutes in light of the legislature's intent in enacting

them, and in light of the policy sought to be advanced by the entire statutory scheme. *Id.*

State v. Dansereau, ___ N.H. ___ (August 15, 2008, *slip op.* at 2); *See also, Oulette v. Town of Kingston*, ___ N.H. ___ (August 15, 2008, *slip op.*).

In the case of the Scrubber Law, the overall statutory scheme includes not just the contents of 2006 N.H. Laws 105, but the entirety of RSA Chapter 125-O, the state's Multiple Pollution Reduction Program. Enacted during the 2002 legislative session as "AN ACT relative to additional emissions reductions from existing fossil fuel burning steam electric power plants," (2002 N.H. Laws, Chapter 130), RSA 125-O:1 contains additional findings by the General Court that are part of the overall statutory scheme leading to the Scrubber Law. The Legislature's findings include: a finding that "scientific advances have demonstrated that adequate protection of public health, environmental quality, and economic well-being - the 3 cornerstones of New Hampshire's quality of life - requires additional, concerted reductions in air pollutant emissions." RSA 125-O:1, I; a finding "that protecting New Hampshire's high quality-of-life environment by reducing air pollutant emissions returns substantial economic benefit to the state through avoided health care costs; greater tourism resulting from healthier lakes and improved vistas; more visits by fishermen, hunters, and wildlife viewers to wildlife ecosystems, and a more productive forest and agricultural sector." RSA 125-O:1, IV; a finding "that aggressive further reductions in emissions of sulfur dioxide (SO₂), oxides of nitrogen (NO_x), mercury, and carbon dioxide (CO₂) must be pursued." RSA 125-O:1, III; and, a finding "that substantial additional reductions in emissions of SO₂, NO_x, mercury, and CO₂ must be required of New Hampshire's existing fossil fuel burning steam electric power plants.." RSA 125-O:1, V.

When viewed with the Supreme Court's stated goal of applying statutes in light of the legislature's intent in enacting them, and in light of the policy sought to be advanced by the entire statutory scheme, there is no doubt what was intended by passage of the Scrubber Law. The public interest findings of the General Court in RSA 125-O:1 overwhelmingly dictate the policy objectives; the Scrubber Law was intended to expeditiously implement these objectives via installation of the scrubber as quickly as possible.

The language of the Scrubber Law is clear. Ascribing the "plain and ordinary meaning to the words used" in the Scrubber Law leaves no doubt that the General Court has mandated installation of a scrubber at Merrimack Station as soon as possible. The intent of the Scrubber Law is obvious and apparent from the statute as written. The overall statutory scheme and the policy sought to be advanced is obvious and unwaivering: "The mercury reduction requirements set forth in this subdivision represent a careful, thoughtful balancing of cost, benefits, and technological feasibility and therefore the requirements shall be viewed as an integrated strategy of non-severable components."

The Supreme Court has also discussed the importance of the General Court's use of the word "shall," as used in the Scrubber Law. (A scrubber "*shall* be installed at Merrimack Station no later than July 1, 2013." RSA 125-O:11, I. The requirements of the Scrubber Law "*shall* be viewed as an integrated strategy of non-severable components." RSA 125-O:11, VIII. "The owner *shall* install and have operational scrubber technology to control mercury emissions at Merrimack Units 1 and 2 no later than July 1, 2013." RSA 125-O:13, I. "Total mercury emissions from the affected sources *shall* be at least 80 percent less on an annual basis than the

baseline mercury input, as defined in RSA 125-O:12, III, beginning on July 1, 2013.”

RSA 125-O:13, II. In *State v. Johanson*, 156 N.H. 148, 151 (2007), the Court noted:

“The use of the word 'shall' is generally regarded as a command; although not controlling, it is significant as indicating the intent that the statute is mandatory. This is especially so where the purpose of the statute is to protect private rights.” *McCarthy v. Wheeler*, 152 N.H. 643, 645, 886 A.2d 972 (2005).

Similarly, in *City of Rochester v. Corpening*, 153 N.H. 571, 574 (2006) the Court held:

“The intention of the Legislature as to the mandatory or directory nature of a particular statutory provision is determined primarily from the language thereof.” *Appeal of Rowan*, 142 N.H. 67, 71, 694 A.2d 1002 (1997) (quotation and citation omitted). The general rule of statutory construction is that “the word 'may' makes enforcement of a statute permissive and that the word 'shall' requires mandatory enforcement.” *Town of Nottingham v. Harvey*, 120 N.H. 889, 895, 424 A.2d 1125 (1980).

As recently as July 25th of this year, the Supreme Court reiterated this principle of statutory construction. Discussing the Legislature’s use of the word “shall” in RSA 402-C:34, the Court cited to *Rowan, supra*, and held that “having used the word ‘shall,’ the legislature is presumed to have intended setoff under RSA 402-C:34 to be mandatory rather than discretionary.” *In the Matter of the Liquidation of The Home Insurance Company*, ___ N.H. ___, slip op. at 10 (July 25, 2008).

The use of the word “shall” in the Scrubber Law emphasizes the Legislature’s intent that installation of a scrubber at Merrimack Station is “commanded” and is “mandatory.” Indeed, within the Scrubber Law, the General Court used the word “shall” sixty times! There can be no doubt of the mandatory and unequivocal direction expressed in the Scrubber Law.

When the Scrubber Law is analyzed using the Supreme Court's statutory interpretation rules, the General Court's meaning, intent, and command is clear. If there was any ambiguity, which there is not, the Court has indicated that legislative history would be used to aid in the statute's analysis. The Scrubber Law's legislative history is equally clear and unambiguous:

SCIENCE, TECHNOLOGY AND ENERGY

HB 1673-FN, relative to the reduction of mercury emissions.

MAJORITY: OUGHT TO PASS WITH AMENDMENT. MINORITY: OUGHT TO PASS WITH AMENDMENT.

Rep. Roy D. Maxfield for the Majority of Science, Technology and Energy: *This bill provides for at least an 80% reduction of mercury emissions from coal-fired power plants by requiring the installation of a scrubber technology no later than July 1, 2013 and provides economic incentives for earlier installation timeframes and greater reduction in emissions.* The committee amendment provides for annual progress reports from Public Service of New Hampshire (PSNH) and also cost recovery language. *This legislation is a result of months of collaborative work by PSNH, the Department of Environmental Services, the Governor's office, multiple environmental groups, members of the committee and other stakeholders.* The scrubber technology not only will reduce mercury by at least 80%, it will dramatically reduce SO2 emissions. *Our committee held multiple work sessions and all had an opportunity to present their views.* A comprehensive review of the timeframe was conducted by two members of the committee who concluded that the 2013 date is appropriate. *It is in the best interests of PSNH to achieve early reductions for mercury* and they are proceeding with a US Department of Energy (DOE) grant to accomplish this objective. *This bill has consensus support from the Governor and stakeholders, and has wide bipartisan support in the General Court. The bill achieves the primary objectives of reasonable reductions, in a reasonable timeframe, at a reasonable cost to electricity users.* Vote 13-2.

Rep. Gene F. Andersen for the Minority of Science, Technology and Energy: *The bill provides for significant mercury reductions from facilities operated by Public Service of New Hampshire (PSNH) by 2013.* Some testimony indicated that an optimal permit

and construction schedule could provide a 2011 completion for mercury removal equipment; thereby providing the necessary and desired reductions of mercury and other pollutants during that two year period. *The minority felt the 2011 date should be utilized for implementation of the mercury reduction requirement* and provide for extensions beyond that date if and only if PSNH was unable to complete by 2011 due to circumstance beyond its control.

House Calendar, Vol. 28, No. 22, February 17, 2008, p. 1280 (emphases added).

Moreover, the Analysis accompanying the Scrubber Law reads:

ANALYSIS

This bill provides for an 80 percent reduction of mercury emissions from coal-burning power plants by requiring the installation of scrubber technology no later than July 1, 2013 and provides economic incentives for earlier installation and greater reductions in emissions.

2006 N.H. Laws, Chapter 105.

The Scrubber Law's legislative history and Analysis echo the mandates found in the plain language of the law itself - - the bill requires the installation of scrubber technology no later than July 1, 2013. The only difference of opinion between the legislative majority and minority was on the schedule for the mandated installation of the scrubber - - the minority wanted the scrubber installed earlier - - a goal that is being materially hindered by the Commission's creation of this docket.

The Secretarial Letter states that there is "a potential conflict between" the Scrubber Law and RSA 369-B:3-a. PSNH finds no such conflict. The Scrubber Law uses plain and ordinary words which mandate that a scrubber "shall be installed at Merrimack Station no later than July 1, 2013." RSA 369-B:3-a, enacted during the 2003 legislative session, reads:

369-B:3-a Divestiture of PSNH Generation Assets. The sale of PSNH fossil and hydro generation assets shall not take place before April 30, 2006. Notwithstanding RSA 374:30, subsequent to April 30, 2006, PSNH may divest its generation assets if the commission finds that it is in the economic interest of retail customers of PSNH to do so, and

provides for the cost recovery of such divestiture. *Prior to any divestiture of its generation assets, PSNH may modify or retire such generation assets if the commission finds that it is in the public interest of retail customers of PSNH to do so*, and provides for the cost recovery of such modification or retirement.

(Emphasis added).

The “potential conflict” noted in the Secretarial Letter appears to be whether PSNH is required to obtain a Commission finding under RSA 369-B:3-a that the modification of Merrimack Station by the installation of a scrubber “is in the public interest of retail customers of PSNH” before such installation may proceed. As noted in *Appeal of Pinetree Power, Inc.*, 152 N.H. 92, 97 (2005), “By the plain language of the statute [RSA 369-B:3-a], the public interest standard for modification is broader than just economic interests.” The General Court has weighed and ruled on the broader public interest and found that the Scrubber Law’s requirements “represent a careful, thoughtful balancing of cost, benefits, and technological feasibility....” RSA 125-O:11, VIII.

Due to the mandatory language and express findings of the General Court contained in the Scrubber Law, there is no need nor authority for the Commission to render an additional and duplicative public interest finding under RSA 369-B:3-a prior to the installation of the scrubber. Any such proceeding under RSA 369-B:3-a would be held to determine only one thing - - whether it is “in the public interest of retail customers of PSNH” to modify Merrimack Station by installation of a scrubber. *That precise finding has already been made by the General Court* - - “The installation of [scrubber] technology is in the public interest of the citizens of New Hampshire and the customers of the affected sources.” RSA 125-O:11, VI. As the General Court has already made the requisite RSA 369-B:3-a finding, the

Commission lacks authority to contravene this Legislative finding and there is no need for a separate and redundant Commission finding. Such a reading of the law is consistent with General Court's express statements of purpose and findings contained in the Scrubber Law. Statutes are to be interpreted "not in isolation, but in the context of the overall statutory scheme." *State v. Farrow*, 140 N.H. 473, 475 (1995); *Appeal of Ashland Elec. Dept.*, 141 N.H. 336, 340 (1996); *Pinetree Power*, *id.* at 96.

By finding that "The installation of [scrubber] technology is in the public interest of...the customers of [PSNH]," the General Court has removed from the Commission any authority to reach a contrary finding. Recall, "the authority of the PUC...is limited to that specifically delegated or fairly implied by the legislature and may not be derived from other generalized powers of supervision." *Appeal of Public Service Co.*, *id.* The General Court has not delegated authority to the Commission to determine whether installing a scrubber at Merrimack Station is in the public interest, nor is such authority fairly implied. That public interest finding has been made, and is clearly and definitively embodied in the law.

It should be noted that two of the sponsors of the Scrubber Law were also sponsors of 2003 N.H. Laws, Chapter 21, the law creating RSA 369-B:3-a. Senators Green and Odell both sponsored Senate Bill 170 during the 2003 legislative session and House Bill 1673-FN during the 2006 legislative session. It is inconceivable that these two Senators would sponsor legislation in 2006 finding that installation of scrubber technology at Merrimack Station is in the public interest of PSNH's customers (the precise finding required in their earlier 2003 law), yet would delegate to the Commission the authority and duty to make (or contradict) that same finding.

Any other reading of the interplay between the Scrubber Law and RSA 369-B:3-a would create the very conflict implied in the Secretarial Letter. In the event that there was a conflict between two statutes, the Supreme Court has held:

When a conflict exists between two statutes, the later statute will control, especially when the later statute deals with a subject in a specific way and the earlier enactment treats that subject in a general fashion. 2A C. D. Sands, *Sutherland Statutes and Statutory Construction* § 51.05 (4th ed. 1973). However, as we noted in *Ingersoll v. Williams*, 118 N.H. 135, 138, 383 A.2d 1119, 1121 (1978), decided this day, implied repeal of former statutes is a disfavored doctrine in this State. See also *State v. Miller*, 115 N.H. 662, 348 A.2d 345 (1975); *Opinion of the Justices*, 107 N.H. 325, 221 A.2d 255 (1966). The party arguing a repeal by implication must demonstrate it by evidence of convincing force. *Opinion of the Justices*, *id.* at 328, 221 A.2d at 257. If any reasonable construction of the two statutes taken together can be found, this court will not find that there has been an implied repeal. *State v. Miller supra*; *Public Serv. Co. v. Lovejoy Granite Co.*, 114 N.H. 630, 325 A.2d 785 (1974).

Board of Selectmen of Merrimack v. Planning Board of Merrimack, 118 N.H. 150 (1978).

More recently the Court re-affirmed this principle:

"It is a well-recognized rule of statutory construction that where one statute deals with a subject in general terms, and another deals with a part of the same subject in a more detailed way, the latter will be regarded as an exception to the general enactment where the two conflict." *State v. Bell*, 125 N.H. 425, 432, 480 A.2d 906 (1984). We also note that RSA 161:4, VI was enacted in 1991, while RSA chapter 151-E was enacted in 1998. "When a conflict exists between two statutes, the later statute will control, especially when the later statute deals with a subject in a specific way and the earlier enactment treats that subject in a general fashion." *Petition of Public Serv. Co. of N.H.*, 130 N.H. 265, 283, 539 A.2d 263 (1988) (quotations omitted), appeal dismissed, 488 U.S. 1035, 109 S. Ct. 858, 102 L. Ed. 2d 983 (1989).

Bel Air Associates v. Dept. of Health and Human Services, 154 N.H. 228, 233 (2006).

Of the two laws in question, the Scrubber Law is the later statute, enacted during the 2006 legislative session versus the 2003 enactment for RSA 369-B:3-a. In addition, RSA 369-B:3-a deals with undefined, potential modifications of PSNH's

generation assets in a general way. The Scrubber Law contains specific findings and mandates. In accordance with the Court's holding in *Bel Air Associates*, the explicit directions provided in the Scrubber Law must be regarded as controlling over the general RSA 369-B:3-a enactment.

The instant situation is similar to the facts facing the Supreme Court in *Petition of Public Service Co. of N.H.*, 130 N.H. 265 (1988), cited in *Bel Air, supra*. In *Petition of Public Service Co. of N.H.*, the Court dealt with the power of the Commission to grant PSNH an emergency rate increase per RSA 378:9 during the construction of the Seabrook nuclear plant despite the enactment of the so-called "anti-CWIP" law, RSA 378:30-a. The Court noted that the emergency rate statute "grants the commission broad discretionary powers." *Petition of PSNH* at 283. "The anti-CWIP statute, on the other hand, restricts the commission's discretionary powers in the ratemaking process." *Id.* The Court then held:

The one statute grants the commission general ratemaking powers under emergencies, and the other, enacted after the first, restricts the commission's discretion when determining rates. "When a conflict exists between two statutes, the later statute will control, especially when the later statute deals with a subject in a specific way and the earlier enactment treats that subject in a general fashion." *Board of Selectmen v. Planning Bd.*, 118 N.H. 150, 152, 383 A.2d 1122, 1124 (1978). RSA 378:30-a was enacted after the emergency statute. The anti-CWIP statute is unconditional in its prohibition, and makes no exceptions for emergencies.

Id.

Once again, PSNH faces a situation involving the enactment of a more recent, specific statute and an older statute of general application. Like the anti-CWIP law, the Scrubber Law, enacted after RSA 369-B:3-a, restricts the Commission's discretion. It also deals with the subject of modifying Merrimack

Station by the installation of a scrubber in a specific way, versus the general supervisory authority found in the earlier statute. Under the Court's holding in *Petition of PSNH*, the Scrubber Law's mandate for the installation of a scrubber at Merrimack Station and finding of such action to be in the public interest are controlling and binding upon the Commission.

The legislative mandates contained in the Scrubber Law are made even more apparent when the Scrubber Law is compared to the language in RSA Chapter 362-C, "Reorganization of Public Service Company of New Hampshire." As in the Scrubber Law, RSA Chapter 362-C begins with a legislative "Declaration of Purpose and Findings." RSA 362-C:1. Notably, the RSA 362-C:1 findings include a grant of authority to the Commission:

...the public utilities commission should be authorized to determine whether a proposed agreement relating to the reorganization of Public Service Company of New Hampshire and, upon receipt of required regulatory approvals, the acquisition of Public Service Company of New Hampshire by Northeast Utilities, would be consistent with the public good and whether the rates for electric service to be established in connection with the reorganization are just and reasonable and should be approved.

RSA 362-C:1, IV. In RSA Chapter 362-C, the General Court specifically delegated authority to the Commission to make a determination whether the cited agreement "would be consistent with the public good." RSA 362-C:3. In the Scrubber Law, no such delegation of authority to the Commission is included; the General Court itself has determined that installation of a scrubber "is in the public interest of the citizens of New Hampshire and the customers of the affected sources." Had the Legislature intended to delegate such authority to the Commission, it certainly knew how to do so, as it had done in the past in RSA Chapter 362-C for another

matter involving the Commission's regulatory authority concerning PSNH. *See also, Cannata v. Town of Deerfield*, 132 N.H. 235, 243 (1989) (...the legislature knew how to include real property in a definition when it intended to do so.); *Barry v. Amherst*, 121 N.H. 335, 339 (1981) (The express language of RSA 36:23 (Supp. 1979) demonstrates that the legislature knew how to provide for automatic approval when that was its intention.).

PSNH notes that in a recent e-mail, the Commission's former general counsel, citing to RSA 125-O:13, I, indicated that the General Court's findings in the Scrubber Law were not binding upon the Commission, but were only to be afforded "due consideration." The complete wording of RSA 125-O:13, I, reads:

I. The owner shall install and have operational scrubber technology to control mercury emissions at Merrimack Units 1 and 2 no later than July 1, 2013. The achievement of this requirement is contingent upon obtaining *all necessary permits and approvals* from federal, state, and local regulatory agencies and bodies; however, *all such regulatory agencies and bodies are encouraged to give due consideration to the general court's finding that the installation and operation of scrubber technology at Merrimack Station is in the public interest. The owner shall make appropriate initial filings with the department and the public utilities commission, if applicable*, within one year of the effective date of this section, and with any other applicable regulatory agency or body in a timely manner.

For all the reasons set forth earlier, the Scrubber Law eliminates any need for a Commission determination under RSA 369-B:3-a; it is just not applicable and is not a necessary approval. Indeed, the creation of any such proceeding before the Commission (including the instant proceeding) would frustrate the General Court's specific finding that "It is in the public interest to achieve significant reductions in mercury emissions at the coal-burning electric power plants in the state as soon as possible." RSA 125-O:13, I. Any delays in the project will cause increases in the

ultimate price tag to be borne by PSNH's customers as costs of materials and labor continue to escalate, AFUDC continues to accrue, and the possibility to achieve early emissions reduction credits under RSA 125-O:16 evaporates. In the only other proceeding held under RSA 369-B:3-a, a total of 16 months elapsed between PSNH's initial filing and the achievement of a final, unappealable decision. NHPUC Docket No. DE 03-166, *PSNH Petition for Authority to Modify Schiller Station; Pinetree Power, id.* It is inconceivable that the General Court intended to subject the scrubber project to delays arising from a similar proceeding, given the "significant emissions reduction benefits, including but not limited to, cost effective reductions in sulfur dioxide, sulfur trioxide, small particulate matter, and improved visibility (regional haze)" (RSA 125-O:11, II) and incentives (that would benefit PSNH's retail customers) provided for early completion of the scrubber (RSA 125-O:16).

Notwithstanding the clarity of the mandate and intent of the Scrubber Law, if any ambiguity in the meaning of RSA 125-O:13, I, remained, the principles of statutory construction established by the Supreme Court, *supra*, would be applied. Recall the Court's direction in *Dansereau, supra*:

We also interpret a statute in the context of the overall statutory scheme and not in isolation. If a statute is ambiguous, however, we consider legislative history to aid our analysis. Our goal is to apply statutes in light of the legislature's intent in enacting them, and in light of the policy sought to be advanced by the entire statutory scheme.

(Internal citations omitted).

The "overall statutory scheme" set forth in RSA 125-O:13, "Compliance," is clear, when these remaining provisions of that section are considered:

- I. *The owner shall install and have operational scrubber technology* to control mercury emissions at Merrimack Units 1 and 2 *no later than July 1, 2013.*
- II. *Total mercury emissions from the affected sources shall be at least 80 percent less* on an annual basis than the baseline mercury input, as defined in RSA 125-O:12, III, beginning on July 1, 2013.
- IV. If the net power output (as measured in megawatts) from Merrimack Station is reduced, *due to the power consumption requirements or operational inefficiencies of the installed scrubber technology*, the owner may invest in capital improvements at Merrimack Station that increase its net capability...
- V. Mercury reductions achieved *through the operation of the scrubber technology* greater than 80 percent shall be sustained insofar as the proven operational capability of the system, as installed, allows.
- VI. The purchase of mercury emissions allowances or credits from any established emissions allowance or credit program shall not be allowed for compliance with *the mercury reduction requirements of this chapter.*
- VII. If the mercury reduction requirement of paragraph II is not achieved in any year after the July 1, 2013 implementation date, and *after full operation of the scrubber technology*,....
- VIII. If the mercury reduction requirement of paragraph II is not achieved by the owner in any year after the July 1, 2013 implementation date *despite the owner's installation and full operation of scrubber technology*....
- IX. The owner shall report by June 30, 2007 and annually thereafter, to the legislative oversight committee on electric utility restructuring, established under RSA 374-F:5, and the chairpersons of the house science, technology and energy committee and the senate energy and economic development committee, on *the progress and status of complying with the requirements of paragraphs I and III, relative to achieving early reductions in mercury emissions and also installing and operating the scrubber technology including any updated cost information.* The last report required shall be after the department has made a determination, under paragraph V, on the maximum sustainable rate of mercury emissions reductions *by the scrubber technology.*

RSA 125-O:13 (emphases added).

There can be no mistake that in enacting the Scrubber Law the Legislature intended that scrubber technology *shall* be installed at Merrimack Station. Without installation of the scrubber, the entirety of RSA 125-O:13 is made ineffective, as the provisions contained therein all anticipate and are based upon the mandated scrubber installation. Since the “goal is to apply statutes in light of the legislature's intent in enacting them, and in light of the policy sought to be advanced by the entire statutory scheme,” (*Dansereau, id.*), there can be no doubt regarding the meaning of the Scrubber Law.

The “necessary permits and approvals” referenced in RSA 125-O:13, I, do not include a proceeding under RSA 369-B:3-a. Examples of such “necessary permits and approvals” include zoning laws, building permits, Federal Aviation Administration approvals, environmental permits, and the like, all of which PSNH is in the process of obtaining in a timely manner. The mandate to install a scrubber, and the General Court’s finding that such installation is in the public interest of PSNH’s retail customers, does not dictate *how* the scrubber is installed, just that it *must* be installed. PSNH is still required to ensure that the scrubber design meets traditional safety, environmental, and other building standards. *Cf.*, RSA 674:30, which provides that a public utility “may petition the public utilities commission to be exempted from the operation of any local ordinance, code, or regulation enacted under this title [LXIV].” RSA 674:30, III. This statute continues “The public utilities commission, following a public hearing, *may* grant such an exemption if it decides that the present or proposed situation of the structure in question is reasonably necessary for the convenience or welfare of the public....” *Id.* Note that

the Legislature made such a grant of exemption permissive, by use of the word “may” instead of “shall” - - it is such determinations to which “regulatory agencies and bodies are encouraged to give due consideration to the general court’s finding that the installation and operation of scrubber technology at Merrimack Station is in the public interest.”

The nature and extent of the Commission’s authority concerning the scrubber project is set forth in the Scrubber Law itself. RSA 125-O:18, “Cost Recovery” states in part, “If the owner is a regulated utility, the owner shall be allowed to recover all prudent costs of complying with the requirements of this subdivision in a manner approved by the public utilities commission.” The section continues by specifying that during ownership and operation of Merrimack Station by PSNH, “such costs shall be recovered via the utility’s default service charge.” By this section, the General Court has clearly established the Commission’s role and authority regarding the scrubber project. When the scrubber project is completed, the Commission has the authority to review the prudence of PSNH’s design and installation of the scrubber. The Commission does not have the authority to second-guess the General Court’s decision mandating the installation of the scrubber.

Until the scrubber project is finished, the General Court has reserved to itself the power and authority to oversee the project. This reservation of authority is found in RSA 125-O-13, IX:

The owner shall report by June 30, 2007 and annually thereafter, to the legislative oversight committee on electric utility restructuring, established under RSA 374-F:5, and the chairpersons of the house science, technology and energy committee and the senate energy and economic development committee, on the progress and status of complying with the requirements of paragraphs I and III, relative to achieving early reductions in mercury emissions and also installing

and operating the scrubber technology including any updated cost information. The last report required shall be after the department has made a determination, under paragraph V, on the maximum sustainable rate of mercury emissions reductions by the scrubber technology.

Such a reservation of authority by the General Court concerning the progress, status, and cost of complying with the Scrubber Law is yet another clear indication of the law's intent to negate the need for a RSA 369-B:3-a proceeding in this matter.

PSNH is confident that up to the initiation of the instant proceeding, it was diligently pursuing and complying with the legal mandates contained in 2006 N.H. Laws, Chapter 105, the Scrubber Law, by moving forward rapidly with the installation of scrubber technology at Merrimack Station. The legal mandates and requirements of the statute are set forth in plain and ordinary language, clearly expressing the legislature's intent and the policy sought to be advanced by the entire statutory scheme. This statutory scheme limits the powers and authority of the Commission concerning the installation of scrubber technology at Merrimack Station to a determination of the manner for the recovery of all prudent costs of complying with the requirements of this law.

PSNH urges the Commission to expeditiously act in this inquiry so that the Company may resume the commitment of capital and manpower necessary to install a wet flue gas desulphurization system ("scrubber technology," RSA 125-O:12, V) at its Merrimack Station as mandated by law.

Respectfully submitted this 2nd day of September, 2008.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

By: _____



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CERTIFICATE OF SERVICE

I certify that on this date I caused the attached Memorandum of Law to be served
pursuant to N.H. Code Admin. Rule Puc 203.11.

September 2, 2008



**THE STATE OF NEW HAMPSHIRE
before the
PUBLIC UTILITIES COMMISSION**

Public Service Company of New Hampshire
Merrimack Station Scrubber Project
Request for Information

Docket No. DE 08-103

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE'S
MOTION FOR PROTECTIVE ORDER
RE: BID AND CONTRACT INFORMATION**

Pursuant to RSA 91-A:5,(IV)(Supp.) and N.H. Code Admin. Rules Puc § 203.08, Public Service Company of New Hampshire ("PSNH" or the "Company") hereby requests protective treatment for certain information requested in the Commission's Secretarial Letter of August 22, 2008. In that letter the Commission requested that PSNH supply, *inter alia*, "a comprehensive status report on its installation plans, a detailed cost estimate for the project, and an analysis of the effect on energy service rates if Merrimack Station were not in the mix of fossil and hydro facilities operated by PSNH." A portion of this information is confidential, commercial, or financial information exempted from public disclosure under RSA 91-A:5.

In support of its Motion for Protective Order, PSNH says the following:

1. In order to prepare a comprehensive status report and a detailed cost estimate for the project, PSNH must rely on the results of progress made to date in preparing the different portions of the scrubber project for the commencement of construction efforts. There are several "islands" of work which are being negotiated with bidders before a final contract is executed for each portion of the project. These areas of the project are still in various stages of bidding or negotiations with bidders, contractors and subcontractors. The bids offered have all been made under a strictly confidential request for proposal process in order to protect the information from public disclosure. Even final contract terms and designs have been designated by the bidders and contractors as proprietary and subject to confidentiality terms to be included in the final agreements. Conclusions and summaries of data can be

made publicly available; however, the specific data contains information that is confidential, commercial, or financial information which the Commission may protect from public disclosure under RSA 91-A:5, IV.

2. If this information were to be made public, the contractors' proprietary information would be available to their competitors damaging their future ability to bid competitively on other contracts. Many vendors may withdraw from this project altogether if they cannot rely on customary business practices which include maintaining the confidentiality of contract terms. PSNH may have difficulty in attracting potential contractors in the future if there is a perception that their bids or confidential contract terms will be publicly disclosed.

3. The Commission must use a balancing test in order to weigh the importance of creating an open record of this proceeding with the harm from disclosure of confidential, financial or competitive information. "Under administrative rule Puc 204.06, the Commission considers whether the information, if made public, would likely create a competitive disadvantage for the petitioner; whether the customer information is financially or commercially sensitive, or if released, would likely constitute an invasion of privacy for the customer; and whether the information is not general public knowledge and the company takes measures to prevent its' dissemination." *Re Northern Utilities, Inc.*, 87 NH PUC 321, 322, Docket No. DG 01-182, Order No. 23,970 (May 10, 2002). Contracts with suppliers and confidential bidding information are routinely granted confidential treatment by the Commission. *Unitil Energy Systems*, 91 NH PUC 145, 150 (2006).

4. The limited benefits of publicly disclosing the information requested in the status report on the project's detailed cost estimate do not outweigh the harm done by disclosing the information. The ability to finalize contracts with vendors for this project and future projects may be jeopardized.

WHEREFORE, PSNH respectfully requests the Commission to issue an order preventing the public disclosure of the detailed cost estimate for the project, and to order such further relief as may be just and equitable.

Respectfully submitted this 2nd day of September, 2008.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

By: _____


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CERTIFICATE OF SERVICE

I certify that on this date I caused the attached Motion for Protective Order to be served
pursuant to N.H. Code Admin. Rule Puc 203.11.

September 2, 2008



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