

DG 16-769
Concord Steam Corporation Monthly Revenue Report

	Oct-16 (Actual)	Nov-16 (Act./Proj.)	Dec-16 (Projected)	Jan-17 (Projected)	Feb-17 (Projected)	Mar-17 (Projected)	Apr-17 (Projected)	May-17 (Projected)	Total
Original Sales Projection (DG 16-769)									
Total Sales	6,501	11,883	18,081	23,363	19,457	16,149	9,192	4,307	108,933
Non-tariff Sales (special contract)	683	837	1566	1899	1567	1499	842	281	9,174
Sales at Tariff Rates	5,818	11,046	16,515	21,464	17,890	14,650	8,350	4,026	99,759
Lost Sales - Customer Termination Sales Projection									
Service Terminated	298	703	1,415	2431	2360	2403	1668	1674	12,952
Projected tariff sales	5,520	10,343	15,100	19,033	15,530				
Degree days warmer than normal				-17.5%					
Projected change in sales due to warm month				-3,663					
Actual & Updated Sales Projection	6,164	11,660	18,075	17,269	17,097	13,746	7,524	2,633	94,168
Fixed Rate Sales (Special Contract) School	(683)	(984)	(1,795)	(1,567)	(1,567)	(1,499)	(842)	(281)	(9,217)
Sales at Tariff Rates	5,481	10,676	16,280	12,039	15,530	12,247	6,682	2,352	81,287
Number of meters billed	151	145	139						
Actual & Updated Tariff Sales by Usage Tier									
Sales under 500 Mlbs	4,409	8,365	11,724	3,212	9,207	7,861	5,299	1,958	52,035
Sales 500-2000 Mlbs	1,019	2,224	4,408	7,100	5,600	4,300	1,300	350	26,301
Sales over 2000 Mlbs	53	87	147	1,727	723	86	83	44	2,950
Total Tariff Sales	5,481	10,676	16,280	12,039	15,530	12,247	6,682	2,352	81,287
Effective Usage Rates									
Under 500 Mlbs	\$ 37.53	\$37.53	\$ 41.13	\$41.13	\$41.13	\$41.13	\$41.13	\$41.13	
500-2000 Mlbs	\$ 36.37	\$36.37	\$39.97	\$39.97	\$39.97	\$39.97	\$39.97	\$39.97	
Over 2000 Mlbs	\$ 32.88	\$32.88	\$36.48	\$36.48	\$36.48	\$36.48	\$36.48	\$36.48	
Weighted Average Special Contract Rate	\$ 4.52	\$ 4.52	\$ 4.47	\$ 4.47	\$ 4.47	\$ 4.47	\$ 4.47	\$ 4.47	
Revenue at Effective Rates									
Under 500 Mlbs	\$ 165,457	\$ 313,929	\$ 482,225	\$ 132,127	\$ 378,678	\$ 323,311	\$ 217,959	\$ 80,548	\$ 2,094,234
500-2000 Mlbs	\$ 37,061	\$ 80,901	\$ 176,188	\$ 283,787	\$ 223,832	\$ 171,871	\$ 51,961	\$ 13,990	\$ 1,039,591
Over 2000 Mlbs	\$ 1,743	\$ 2,861	\$ 5,378	\$ 63,001	\$ 26,375	\$ 3,137	\$ 3,028	\$ 1,605	\$ 107,128
Fixed (Special Contract) Rate	\$ 3,087	\$ 4,447	\$ 8,023	\$ 7,003	\$ 7,004	\$ 6,701	\$ 3,764	\$ 1,256	\$ 41,285
Total	\$ 207,348	\$ 402,138	\$ 671,813	\$ 485,918	\$ 635,889	\$ 505,020	\$ 276,712	\$ 97,399	\$ 3,282,237
Usage Revenue Over/(Under) Recovery									
Projected Usage Revenue Effective Rates	\$ 3,282,237								
Less Projected Fixed Sales Revenue	\$ (41,285)								
	\$ 3,240,952								
Tariff Usage Revenue Target	\$ 3,404,501								
Over/(Under Recovery)	\$ (163,549)								
Percentage of Target Revenue	-4.80%								
Projected Tariff Sales Dec-16 thru May-17	65,130								
Rate change to Eliminate Over/Under Recovery	\$ 2.51								
Adjusted Usage Rates									
Under 500 Mlbs	\$ 37.53	\$ 37.53	\$ 41.13	\$41.13	\$41.13	\$41.13	\$41.13	\$41.13	
500-2000 Mlbs	\$ 36.37	\$ 36.37	\$ 39.97	\$39.97	\$39.97	\$39.97	\$39.97	\$39.97	
Over 2000 Mlbs	\$ 32.88	\$ 32.88	\$ 36.48	\$36.48	\$36.48	\$36.48	\$36.48	\$36.48	

Concord Steam Corp.
1/26/17 Receivables

Card ID	Total Due	0 - 30	31 - 60	61 - 90	90+
505	\$441.67	\$441.67	\$0.00	\$0.00	\$0.00
395	\$418.26	\$418.26	\$0.00	\$0.00	\$0.00
370	\$6,954.02	\$5,954.02	\$1,000.00	\$0.00	\$0.00
390	\$1,333.55	\$1,333.55	\$0.00	\$0.00	\$0.00
315	\$767.61	\$767.61	\$0.00	\$0.00	\$0.00
330	\$14,452.26	\$0.00	\$0.00	\$0.00	\$14,452.26
221	\$2,325.84	\$2,325.84	\$0.00	\$0.00	\$0.00
268	\$13,271.85	\$13,271.85	\$0.00	\$0.00	\$0.00
267	\$2,780.95	\$2,780.95	\$0.00	\$0.00	\$0.00
400	\$43,533.51	\$43,533.51	\$0.00	\$0.00	\$0.00
379	\$11,220.85	\$0.00	\$3,499.34	\$0.00	\$7,721.51
510	\$11,131.23	\$376.33	\$10,754.90	\$0.00	\$0.00
230	\$2,123.08	\$2,123.08	\$0.00	\$0.00	\$0.00
507	\$7,637.89	\$0.00	\$0.00	\$0.00	\$7,637.89
334	\$208.65	\$208.65	\$0.00	\$0.00	\$0.00
220	\$3,902.26	\$3,902.26	\$0.00	\$0.00	\$0.00
102	\$324.49	\$201.66	\$75.72	\$47.11	\$0.00
375	\$110.83	\$110.83	\$0.00	\$0.00	\$0.00
222	\$984.20	\$984.20	\$0.00	\$0.00	\$0.00
280	\$4,689.37	\$4,689.37	\$0.00	\$0.00	\$0.00
356	\$7,316.48	\$7,316.48	\$0.00	\$0.00	\$0.00
409	\$25,684.72	\$25,685.44	\$0.00	\$0.00	(\$0.72)
277	\$5,374.10	\$5,374.10	\$0.00	\$0.00	\$0.00
221A	\$47.95	\$47.95	\$0.00	\$0.00	\$0.00
212	\$653.57	\$0.00	\$0.00	\$0.00	\$653.57
205	\$23,793.17	\$23,793.17	\$0.00	\$0.00	\$0.00
358	\$1,087.54	\$0.00	\$0.00	\$0.00	\$1,087.54
402	\$5,114.62	\$5,114.62	\$0.00	\$0.00	\$0.00
406	\$98,616.80	\$98,616.80	\$0.00	\$0.00	\$0.00
407	\$3,082.36	\$3,082.36	\$0.00	\$0.00	\$0.00
411	\$27,952.37	\$27,952.37	\$0.00	\$0.00	\$0.00
404	\$32,462.70	\$32,462.70	\$0.00	\$0.00	\$0.00
417	\$17,168.15	\$17,168.15	\$0.00	\$0.00	\$0.00
423	\$24,853.85	\$24,853.85	\$0.00	\$0.00	\$0.00
381	\$33.98	\$33.98	\$0.00	\$0.00	\$0.00
214	\$748.70	\$748.70	\$0.00	\$0.00	\$0.00
329	\$8,760.53	\$0.00	\$0.00	\$311.50	\$8,449.03
308	\$245.00	\$245.00	\$0.00	\$0.00	\$0.00
	\$405,617.22	\$355,919.31	\$15,329.36	\$818.93	\$33,549.62

January 4, 2017

Concord Steam Corporation
P.O. Box 2520
Concord, NH 03302

Attention: Mr. Peter Bloomfield, President

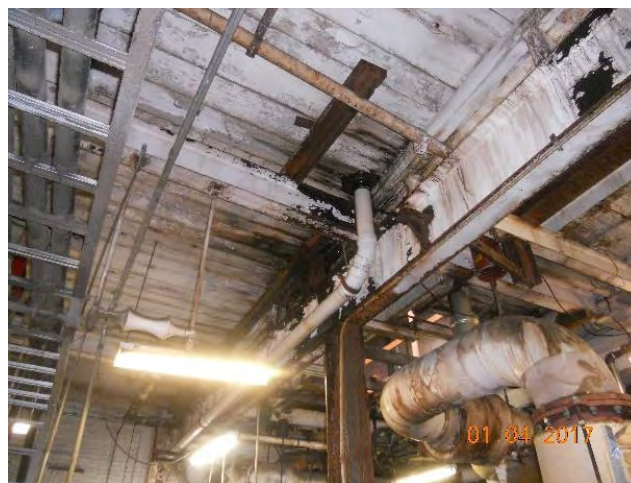
Subject: Concord Steam Facility Condition Survey Follow Up Report

Dear Peter,

Per your request, on Wednesday, January 4, 2017 a representative of Mohlin & Company, a Division of CES, Inc, performed a follow up inspection of the work recommended in the condition survey report dated July 2016, and commented on in a letter response to you from the State of New Hampshire Division of Public Works Design & Construction dated December 9, 2016.

Regarding the structural issues that their letter addressed, the following was observed:

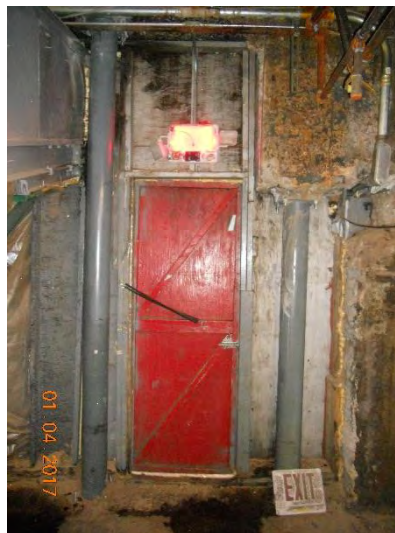
Turbine Room West: The original condition survey found an area in the roof with deteriorated wood plank and beams. Our follow up inspection found that the deteriorated wood decking in the false ceiling was removed as requested. In addition, to reinforce some deteriorated wood timber, W6X15 beams were added, framed on top of the W12X30 support beams. The photo below documents this installation. This was installed in lieu of the original recommendation of the installation of a new W12 beam. The framing that was installed is structurally adequate to support the deteriorated wood plank.



Fan Room: A door access through a masonry wall was found to be defective. Steel framed support channels were added to reinforce the opening as recommended in the original report. The photo below documents this installation.



Support of Coal Bunker Wall Opening: A door opening which was cut through a thick concrete wall of the old coal bunker was found not to have proper support. The photo below shows two heavy gage pipe columns which were added to support the wall header above the door.



Two other areas that were mentioned in the original survey, including deteriorated metal roof deck above the boiler and deteriorated concrete at eave of storage building have not been addressed because weather conditions were not favorable to make these repairs. Neither condition represents a structural hazard and can be repaired any time in the future.

In summary, the repairs recommended in the condition survey have been addressed in a satisfactory manner.

Respectively submitted,

Robert A. Mohlin

Robert A. Mohlin, P.E.

CC: File 11871.001

Nowland Services, PLLC

108 Range Road, Northwood, NH 03261 | 908-793-8461 | mnowland@nowlandservices.com

January 19, 2017

Peter Bloomfield

Concord Steam

P.O. Box 2520

Concord, NH 03302-2520

References: Electrical Safety Report, Revision 1, August 5, 2016 by Nowland Services, PLLC

Dear Peter:

This letter is in response to December 9, 2016 letter from the State of New Hampshire Department of Administrative Services, Division of Public Works Design & Construction to Concord Steam, Corp. regarding facility repairs. Specifically, electrical action items 1-3 are addressed here.

Electrical Item 1. The issue is aged Motor Control Center A (MCC A) metal deterioration at the lower front of the enclosure. I took another look at the outside of the MCC, including supports, and there appears to be no change in the enclosure's integrity since last inspected in July 2016. As recommended by the State, the MCC was inspected by electrician Jason Durgin, from Durgin Electric, and he is satisfied that the lower buckets and the whole enclosure is safe, secure, and the structure is adequately supported to continue safe operation through the impending permanent facility shutdown in May 2017. Jason's phone number is 603-630-6574.

Page 8 of my original report recommended replacement or repair of MCC A within 24 months. Based on my external inspection and the electrician's internal inspection, there has been no noticeable change, or further deterioration, in the last six months.

The State requested addition of sheet metal to be installed to reinforce the base of the MCC structure. I would respectfully submit that the proposed State retrofit is cosmetic in nature and would not significantly improve safety for the short period of four months until the facility shutdown in May. Since an MCC A power down (Boiler 5 shutdown) would be required, I would ask the State to relax the metal reinforcement until the May facility shutdown.

Electrical Item 2. The issue was lack of protection of tap conductors in a small control panel connected at MCC A main lugs. The tap conductors were re-wired through an existing 15amp circuit breaker to provide conductor and transformer primary protection. The electrician wired and I inspected and verified this change.

Electrical Item 3. The safety issue was MCC A Induced Fan (ID) motor starter terminal blocks are used to feed a variable frequency drive (VFD) which creates a short-circuit hazard if the motor contactor closed while operating the VFD. I inspected the motor starter and verified the control coil wiring was removed, preventing the motor coil from ever being energized, and preventing the contactor from closing.

Sincerely,

C Martin Nowland

Marty Nowland, PE, CEM
Nowland Services, PLLC



January 26, 2017

Peter Bloomfield, President
Concord Steam Corporation
PO Box 2520
Concord, NH 03302

RE: Division of Public Works Design and Construction Report, December 9, 2016
Concord Steam Plant
Concord, NH

Dear Peter,

At your request SFC Engineering Partnership Inc (SFC) has reviewed a facility repair report from the State of New Hampshire Department of Administrative Services Division of Public Works Design and Construction prepared by Mr. Theodore Kupper, P.E. dated December 09, 2016. The report is the result of several walkthroughs and review of several existing condition reports prepared by electrical, structural and fire protection / life safety design professionals. SFC compiled the life safety report utilized to create this letter. SFC conducted a second site visit to review the status of the noted deficiencies on January 17, 2017.

The original comment in the report will be listed prior to SFC's response or the observed correction:

1. The exterior crumbling stairs with the handrail that is no longer attached need to be secured so that they are inaccessible and cannot be used.
 - a. The exterior stair is blocked at the top and bottom of stair by a chain link with a sign noting "restricted to approved personnel". As the stair is used to access an exterior high voltage room, the stair could not be fully enclosed, but has been blocked from public use.
2. The shelf currently located at the handrail of the stair transitioning from the Boiler Room to the Turbine Room, needs to be removed or timed to allow access to the handrail.
 - a. The shelf has been removed.
3. The exterior door from the wood delivery hopper area has a door to the outside, but it is not the exit door. This should be properly signed to alert those that this is not an exit door.
 - a. It is unclear if this door was off of the wood delivery area or the door from the area at the base of the wood hopper. As the door from the wood delivery area leads to a roof, a sign stating "Not An Exit" will be installed. The exit sign was removed from above the door in the area below the wood hopper, but it should be reinstalled as it is a means of egress required to comply with egress travel distances.
4. Install fire alarm system as required for high hazard occupancy to provide for automatic detection and occupant notification.
 - a. The facility is not required to have a fire alarm system because the facility has an occupant load below the 100 person threshold per NFPA 101 Section 40.3.4.1.
5. All combustible storage must be removed from the immediate vicinity of the switchgear.
 - a. Combustible storage items have been removed from the area near the switchgear.
6. In the boiler room, 55 gallon chemical drums are stored directly in front of electrical switches in the this workspace. The drums must be moved and stored in another location that does not violate code.
 - a. The 55 gallon drums have been relocated and the space in front of the electrical switches is clear.

7. General housekeeping must be followed to remove bins of rags within the required working clearance extends from the floor and to the full height of the ceiling.
 - a. The bins and rags have been removed. The required clear working space is provided at the electrical equipment.
8. There are exit signs throughout the facility that are non-illuminated placards. All exit signs must be illuminated signs provided with battery backup.
 - a. The non-illuminated exit signs have been replaced with illuminated hard-wired exit signs that are provided with battery backup.
9. All flammable gases must be secured against a wall in a designated area for storage. This includes propane for gas grills; in this case, it must be stored in a compliant location on the exterior of the building
 - a. The flammable gases were secured against the wall. The propane tank for the grill was no longer stored with the grill inside. As an industrial facility the amount of propane permitted to be stored inside is limited to 300 lbs (NFPA 58 Section 8.3.3.1). The amount of propane observed did not exceed the 300lbs permitted within the building. It should be noted that all propane containers are considered to be full when calculating the amount of storage within a building.
10. The dip tank in the maintenance garage must be locked when not in use.
 - a. The dip tank was secured with a lock.
11. All flammable liquids must be stored within the flammable storage cabinets in the maintenance garage adjacent to the first floor plant office.
 - a. Flammable liquids are being store inside the flammable storage cabinets.
12. Miscellaneous items are stored on the roof of the maintenance garage, The items should be removed from the roof or an evaluation should be conducted to determine if the roof can support storage loads.
 - a. Items had been removed from the maintenance garage roof.
13. Lubrication oils are not permitted to be dispensed via gravity feeds and must be dispensed via a drum pump.
 - a. A drum pump was installed on the drum of lubrication oils.
14. An open bucket of oil was observed in the turbine room. Used lubrication oil must be disposed of or properly stored immediately by end of shift.
 - a. The open container lubrication oil had been removed.
15. A deflagration hazard is present when dust accumulation exceeds 1/8 inch on 5% of upward facing surfaces. Several piles of dust exceeding 1/8 inch thick were observed but did not appear to be over 5% of the area. Diligent cleaning processes articulated in a cleaning / maintenance plan shall be prepared and followed.
 - a. Concord steam has hired two additional employees to be full time cleaners. A minimum of one cleaner is on site to conduct cleaning procedures for any wood chip delivery. All cleaning is done with brooms and brushes to prevent any sparking.
16. The polypropylene tarps used for dust control in the receiving areas are not permitted to be used. The tarps must be replaced with fire retardant tarps or other approved building material.
 - a. The tarps have been removed.

Sincerely,

SFC ENGINEERING PARTNERSHIP, INC.



Todd G. Sullivan, P.E.
Fire Protection Engineer