

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DA 16-560

Affiliate Agreement with Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
related to Concord Training Center

Staff Data Requests - Set 2

Date Request Received: 6/21/16
Request No. Staff 2-3

Date of Response: 7/1/16
Respondent: Mark Smith

REQUEST:

Ref. Response of Staff 1-4. Did Liberty perform any cost-benefit analysis concerning use of the training center? Identify and quantify all major and minor benefits and costs analyzed. Provide details with supporting analysis and work papers.

RESPONSE:

Yes, Liberty performed a cost benefit analysis concerning the use of the training center. The analysis was based on economic factors as well as non-economic factors. A cost estimate of utilizing the National Grid training facility in Millbury, Massachusetts was approximately \$375,000 per year, which included an analysis of six months of use by gas employees and 12 months of use by electric employees during 2013. See Attachment Staff 2-3.xlsx. That cost estimate includes incremental travel time and instructor's charges combined for electric and gas employees. It does not include the employee's basic hourly pay rate which would have been incurred regardless of where the training was held. As the cost estimate was based on the number of employees who attended training during that time period, the cost estimate is significantly less than the amount that would be calculated based on the amount of training that has been conducted and will be conducted going forward at the Liberty training center, as discussed below.

In addition to cost, other factors played a major role in the decision process. The arrangement with National Grid was temporary, like the Transition Service Agreements (TSAs) between Liberty and National Grid. Liberty did not have a written TSA with National Grid for training but did have a verbal commitment from National Grid to provide training services for a reasonable period of time until Liberty was ready to assume this obligation. When training in Millbury, Liberty employees were part of classes which included National Grid employees from Massachusetts and/or Rhode Island. Consequently the training they received was not specific to New Hampshire and in some cases conflicted with New Hampshire practices and procedures. Also, scheduling New Hampshire employees for this training was becoming increasingly difficult as Liberty employees were slotted into classes based on when openings were available. Priority was given to the National Grid employees. In many cases, the timing of available openings was in conflict with operational needs. Liberty also searched the local area for another

source of training and found no gas or electric training available that would in any way come close to meeting our needs. Consideration was given to utilizing an existing Liberty facility. The only facility reasonably centrally located and of sufficient size was a building in the Manchester yard. However, due to environmental and permitting issues, it was ruled out. For all of the above reasons the decision was made to build a training center.

Operator Qualifications (OQs) testing is also performed at the training center. Prior to construction of the training center, OQ testing was done using site visits to the various operating yards with testing logistics and conditions varying from site to site. Gas OQ testing criteria have also recently changed. As OQs expire, there is a new requirement to demonstrate proficiency by physically performing the respective task in addition to the current requirement to pass the written test. This requires even greater use of the training center as it allows the instructor to assess the individual's ability to perform the tasks in a controlled environment rather than in the field which is more difficult as logistics and conditions at the yards varied. There are approximately eighty-five OQ tasks. While every employee is not required to pass them all, each employee does have to pass a number of them. Specific OQ tasks vary by job function. Since it now controls the scheduling of training, Liberty is able to train and test more employees more efficiently than when Liberty relied on National Grid for training. In addition, local training keeps employees in the area and able to respond to an emergency situation if needed. The training center is also being used for basic gas and electric training for all non-field employees to provide them with a better understanding of the business. Such training would not have been possible with National Grid's facility given the constraints on use of that facility. To date, approximately 110 employees have been through this basic training. Liberty also plans to use the training center for public awareness training with first responders such as fire departments and police. It will also be used in our outreach efforts with technical high schools and colleges to educate students in careers in the utility industry. For all these reasons having a Liberty training facility provides many quantifiable and non-quantifiable benefits to the Company, its employees, customers and the communities served by Liberty.

(See Key located at end of document)

Electric Operations

EHSS & HR Technical Training Requirements					Training Provider			Delivery Method	Electrical Department						Notes
Course Code	Course Hrs. per Session	Freq	Federal Regulations	Tech. Training	SAFETY	LOB	OH		UG	Water service	Substation	Construction	Relay & P/As		
First Aid / CPR	SAG002	4.00	A	1910.151/1926.50	√			On-Line/Class/DVD	√	√	√	√	√	√	Federal regulatory requirement 3 months of assignment date with a refresher every 2 years. NG will cover this annually during AET as well as quarterly within Technical Training
Asbestos Awareness	SAG008	2.00	A	1910.1101	√	√	√	On-Line/Class/DVD	√						Initial training upon assignment. Refresher training to be done through annual training classes/AET
Asbestos Awareness-Class 3	SAG008	16.00	L	1910.1101	√	√	√	On-Line/Class/DVD		√					Initial training upon assignment
Asbestos Awareness-Class 3	SAG008	4.00	A	1910.1101	√	√	√	On-Line/Class/DVD		√					annually during AET classes
Bucket Rescue	SEL007	1.00	A	1910.269	√	√	√	On-Line/Class/DVD & OJT	√	√		√	√	√	Initial training upon assignment and annually during AET classes
NERC Training	ELO002	0.50	A	FERC ORDER 760	√			On-Line/Class/DVD	√	√	√	√	√	√	This introductory course is designed for various audiences and focused on security requirements placed on those students who are required to take the training. Training will either be instructor led or available as e-learning
Clearance & Control	ELO004	24.00	L	1910.269/1910.147	√	√	√	Class	√	√					Training to be done at appropriate time during progression
Clearance & Control	ELO005	4.00	A	1910.269/1910.147	√	√	√	Class	√	√					annually during AET classes
Confined space	SGS028	4.00	L	1910.269/1910.146	√	√	√	On-Line/Class/DVD & OJT	√	√			√	√	Initial training upon assignment
Confined space refresher	SGS029	1.00	A	1910.269/1910.147	√	√	√	On-Line/Class/DVD & OJT							Annually
Electric Hazard Awareness	SEL003	1.00	L	1910.301	√	√	√	On-Line/Class/DVD	√	√	√		√	√	Initial training upon assignment Liberty Energy requires this training for affected workers be refreshed every 24 months
Electric Hazard Awareness	SEL003	1.00	L	1910.301	√	√	√	On-Line/Class/DVD							Initial training upon assignment Liberty Energy requires this training for affected workers be refreshed every 24 months
Electric Hazard Awareness	SEL003	1.00	2	1910.241/242/243/244	√	√	√	On-Line/Class/DVD							Initial training upon assignment Liberty Energy requires this training for affected workers be refreshed every 24 months
Enclosed Space Awareness	SEL018	4.00	L	1910.269	√	√	√	On-Line/Class/DVD	√	√		√	√	√	Initial training upon assignment - Overhead - per local work practices and agreements
Enclosed Space Rescue Refresher	SEL019	1.00	A	1910.269	√	√	√	On-Line/Class/DVD & OJT	√	√		√	√	√	annually during AET classes per local work practices
ENV 250 Environmental training	SAV001	1.00	A	1925.59/1910.1200	√	√	√	On-Line/Class/DVD	√	√		√	√	√	Initial training upon assignment. Refresher training to be done through annual training classes/AET
Fire Extinguisher	SAG004	1.00	A	1910.157	√	√	√	On-Line/Class/DVD & OJT	√	√		√	√	√	Initial training upon assignment. Refresher training to be done through annual training classes/AET
Forktruck Recertification	SFL006	1.00	3	1910.178	√			On-Line/Class/DVD & OJT	√	√		√	√	√	
Ground Fault Circuit Interrupters (GFCI)	SAG026	0.50	L	1926.404/449	√	√	√	On-Line/Class/DVD	√	√		√	√	√	Cover in progression training
Haz Com	SAG005	2.00	L	1925.59/1910.1200	√	√	√	On-Line/Class/DVD	√	√	√	√	√	√	Initial training to be done within 30 days of assignment on accessing MSDS systems. Reviews of any new products to be done by field supervisor
Hearing Awareness	SAG020	0.50	L	1910.95	√	√	√	On-Line/Class/DVD							Initial training upon assignment.
Haz Mat Transportation	SAG030	3.00	3	CFR Title 49 subpart 172/173	√	√	√	On-Line/Class/DVD							
Hoisting & Rigging	SAG032	40.00	L	1910.178	√	√	√	On-Line/Class/DVD & OJT	√	√		√	√	√	
Insulate and Isolate	ELD252	1.00	A	1910.269	√	√	√	On-Line/Class/DVD & OJT	√	√		√	√	√	Initial training upon assignment and annually during AET classes
Job Briefing	SAG023	0.50	L	1910.269	√	√	√	On-Line/Class/DVD	√	√	√	√	√	√	Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Ladders & Fall Protection	SAG022	2.00	L	1926.503	√	√	√	On-Line/Class/DVD & OJT	√	√	√	√	√	√	Initial training upon assignment
Lead Awareness	SAG006	1.00	A	1910.1025	√	√	√	On-Line/Class/DVD		√		√	√	√	annually during AET classes
Lock out / Tag out	SGS022	3.00	L	1920.269	√	√	√	On-Line/Class/DVD & OJT			√				Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Pole Climbing Recertification	ELD263	1.00	A	1910.269	√	√	√	On-Line/Class/DVD & OJT	√				√	√	annually during AET classes
Pole Top Rescue refresher	SEL005	1.00	A	1910.269	√	√	√	On-Line/Class/DVD & OJT	√				√	√	Initial training upon assignment and annually during AET classes
Power tools	SAG035	1.00	L	1910.241/242/243/244	√	√	√	On-Line/Class/DVD & OJT	√	√	√	√	√	√	Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
PPE	SAG021	1.00	L	1910.132	√	√	√	On-Line/Class/DVD & OJT	√	√	√	√	√	√	Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Respirator Protection	SGS001	1.00	A	1910.134/1926.103	√	√	√	On-Line/Class/DVD & OJT					√	√	Covered during annual Asbestos Awareness training (U)
RF Safety radio frequency -Non Ionizing Radiation	SAG037	1.00	A	19101096/1910.97	√	√	√	On-Line/Class/DVD						√	
Substation Work Area Identification	ELO008	2.00	L	1910.269	√	√	√	On-Line/Class/DVD & OJT						√	
Trencher Operation Training	SAG029	1.00	A	1926.65	√	√	√	On-Line/Class/DVD & OJT						√	
Trenching & Excavation Competent Person Training	SAG029	2.00	3	1926.65	√	√	√	On-Line/Class/DVD & OJT		√		√		√	

(See Key located at end of document)

Electric Operations

EHSS & HR Technical Training Requirements					Training Provider			Delivery Method	Electrical Department						Notes
Course Code	Course Hrs. per Session	Freq	Federal Regulations	Tech. Training	SAFETY	LOB	OH		UG	Meter service	Substns	Construct	Relay & Pkgs		
Vehicle Inspections	SAG003	0.50	A	1910.178/FMCSR DOT Title 49 subpart 396	√			On-Line/Class/DVD & OJT	√	√		√	√	√	Initial training upon assignment and annually during AET classes
Work Area Protection /WZTC	SA6146	2.00	L	Title 23 CFR Subpart 655.603	√	√	√	On-Line/Class/DVD & OJT	√	√	√	√	√	√	Initial training upon assignment. Additional greenlining for regulatory changes to procedures to be as needed.

Key & Notes

How Delivered	By Who	How Recorded	Frequency	Goups
Class	Class room training HS&E Health & Safety	PS Recorded in People	A Annual Training Required	O Overhead
Field	Formal training not at training center - Field or Ops Center LA Lines Academy	LNG DB LNG Department Data Base	L taken only once	U Underground
On-Line	Computer course TL Technical Learning	HC Hard Copy Maintained by Department	2 other year Required every 3	MS Metering Services
OJT/Hands On	On The Job - Could be in safety or tool box meeting/drill Contractor / Cont. Contracted Out.		3 years	Sub Substations
Video/DVD	Training is delivered by reviewing a video/DVD delivered by supervisors. Supv Dept Supervisor		5 required every 5 years or as necessary	Cons Construction R&T

All Gas

Health Safety & ENV Training Requirements				Training Provider			Delivery Method	Gas Department								Notes
Course	Course Code	Course Hrs Per Session	Freq	Federal Regulation	Tech. Training	SAFETY		LOB	C&M	M&T	M&R	I & R	Corrosion	Welder	Gas Control	
Asbestos Awareness	SAG008	2.00	A	1910.1101	√	√	√	On-Line/Class/DVD	√	√	√	√	√	√	√	Initial training upon assignment. Refresher training to be done through annual training classes/AET
Asbestos Disposal Sites	SAG____	8.00	L	1910.1101	√			Class		√						Contractor taught
NERC Training	ELO002	0.50	A	FERC ORDER 760	√			On-Line/Class/DVD	√	√	√	√	√	√	√	This introductory course is designed for various audiences and focused on security requirements placed on those students who are required to
Coal Tar Wrap (I)	SA6057	1.00	A	1910.1101	√	√	√	On-Line/Class/DVD & OJT	√	√						Initial training upon assignment. Refresher training to be done through annual training classes/AET
Confined Space Awareness	SA6080	4.00	L	1910.269/1910.146	√	√	√	On-Line/Class/DVD & OJT			√	√				As needed
Electric Haz Awareness	SEL005	1.00	A	1910.301	√	√	√	On-Line/Class/DVD			√					Initial training upon assignment. Trained annually during AET
Electrical Haz Const Sites	SGS002	2.00	L	1910.301	√	√	√	On-Line/Class/DVD		√						Initial training upon assignment. Trained Annually in EHA during AET
Enclosed Space	SEL018	2.00		1910.269	√	√	√	On-Line/Class/DVD	√							Initial training upon assignment, per local practices and agreements
ENV 250 Environmental training	SAV001	1.00	A	1925.59/1910.1200	√	√	√	On-Line/Class/DVD	√	√						Initial training upon assignment. Refresher training to be done through annual training classes/AET
Excavation (Competent Person)	SGS026	2.00	L	1926.65	√	√	√	On-Line/Class/DVD & OJT	√	√						Initial training upon assignment. Refresher training to be done through annual training classes/AET
Fall Protection	SAL017	4.00	L	1926.503/ 1910.25-26-27	√	√	√	On-Line/Class/DVD & OJT				√				
Fire Extinguisher	SAG004	1.00	A	1910.157	√	√	√	On-Line/Class/DVD & OJT	√	√		√			√	Initial training upon assignment. Refresher training to be done through annual training classes/AET
Ground Fault Circuit Interrupters (GFCI)	SAG026	0.50	L	1910.132	√	√	√	On-Line/Class/DVD	√	√	√					Initial training upon assignment. Trained Annually in EHA during AET
Haz Com	SAG005	2.00	L	1926.59/1910.1200	√	√	√	On-Line/Class/DVD	√	√	√	√	√	√	√	Initial training to be done within 30 days of assignment on accessing MSDS systems. Reviews of any new products to be done by field
Haz Mat Transportation	SA6067	3.00	3	1926.59/1910.1200	√	√	√	On-Line/Class/DVD & OJT	√	√						Initial training upon assignment.
Haz Mat Transportation w/ HM215 Security Awareness	SA6067	3.00	3	1926.59/1910.1200	√	√	√	On-Line/Class/DVD			√					n/a
Haz Waste Handler	SA6069	8.00	L	1926.59/1910.1200	√	√	√	On-Line/Class/DVD & OJT	√	√	√					Initial training upon assignment.
Haz-Wopper Awareness (PCB) Includes Wipe Sampling	SGS015	1.50	L	1926.59/1910.1200	√	√	√ (M only)	On-Line/Class/DVD & OJT	√	√	√					Initial training upon assignment. Additional training to be as needed by field personnel
Hazwopper for workers at MGP sites.	SGS030	8.00	A	1926.59/1910.1200	√	√	√	On-Line/Class/DVD & OJT	√	√						n/a
Hearing Awareness	SAG020	0.50	L	1910.95	√	√	√	On-Line/Class/DVD			√					Initial training upon assignment.
Hearing Protection Awareness	SAG020	1.00	A	1910.1025/1910.95	√	√	√	On-Line/Class/DVD	√	√	√					Initial training upon assignment.
Job Briefing	SAG023	0.50	L	1910.269	√	√	√	On-Line/Class/DVD	√	√	√					Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Ladders	SAG022	1.00	L	1926.503/ 1910.25-26-27	√	√	√	On-Line/Class/DVD & OJT	√	√	√	√				Initial training upon assignment.
Lead Awareness	SAG006	1.00	A	1910.1025	√	√	√	On-Line/Class/DVD	√		√					Initial training upon assignment. Refresher training to be done through annual training classes/AET
LO/TO	SGS022	0.50	L	1910.147	√	√	√	On-Line/Class/DVD & OJT	√	√						Initial training upon assignment. Trained Annually in EHA during AET
Lock out / Tag out	SGS022	3.00	L	1910.147	√	√	√	On-Line/Class/DVD & OJT			√					Initial training upon assignment. Trained Annually in EHA during AET
Medic First Aid including CPR	SAG002	4.00	2	1910.151/1926.50	√	√	√	On-Line/Class/DVD	√		√	√				Federal regulatory requirement 3 months of assignment date with a refresher every 2 years.
PPE	SAG021	1.00	L	1910.132	√	√	√	On-Line/Class/DVD & OJT	√	√	√	√	√	√	√	Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Power tools	SAG035	1.00	L	1910.241/242/243/244	√	√	√	On-Line/Class/DVD & OJT	√	√	√	√	√	√	√	Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Rescue-Conf/Enclcd Space Awareness	ELO036	0.50	L	1910.269/1910.146	√	√	√	On-Line/Class/DVD & OJT	√	√	√					n/a
Respirator Fit Test	SGS032	1.00	A	1910.134/1926.103	√	√	√	On-Line/Class/DVD & OJT		√		√	√			Initial training upon assignment. Trained Annually during AET
Respirator Protection	SGS001	1.00	A	1910.134/1926.103	√	√	√	On-Line/Class/DVD & OJT	√							Initial training upon assignment. Trained Annually during AET

All Gas

Health Safety & ENV Training Requirements				Training Provider			Delivery Method	Gas Department								Notes	
Course	Course Code	Course Hrs Per Session	Freq	Federal Regulation	Tech. Training	SAFETY		LOB	C&M	M&T	M&R	I & R	Corrosion	Welder	Gas Control		Engineering
Signs, Tags & Warnings	SAG018	0.50	L	1926.59/1910.1200	√	√		On-Line/Class/DVD	√		√						Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Trenching & Excavation Competent Person	SEL015	2.00	3	1926.65	√	√	√	On-Line/Class/DVD & OJT	√	√			√				Initial training upon assignment. Refresher training to be done through annual training classes/AET
Welders Safety Class	WL1029	1.00	L	1910.252	√			On-Line/Class/DVD	√	√							
Work Area Protection /WZTC	SA6146	2.00	L	Title 23 CFR Subpart 655/603	√	√	√	On-Line/Class/DVD & OJT	√	√		√	√				Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
Vehicle Inspections	SAG003	0.50	A	1910.178/FMCSR DOT Title 49 subpart 396	√			On-Line/Class/DVD & OJT	√	√		√					Initial training upon assignment. Additional greenlining for regulatory changes to procedures to be as needed.
L&D Training Requirements																	
Inspecting for Shorted Casings			3	49 CFR 192.467	√			On-Line/Class/DVD & OJT				√					
Measuring Pipe-to-Soil Potential				49 CFR 192.465	√			On-Line/Class/DVD & OJT				√					
Conduct a Soil Resistivity Survey				192.455 and 192.465	√			On-Line/Class/DVD & OJT				√					
Conducting Interference Testing				49 CFR 192.473	√			On-Line/Class/DVD & OJT				√					
Electrically Checking for Proper Performance Reverse Current Switches, Diodes, and Interference Bonds				49 CFR 192.465	√			On-Line/Class/DVD & OJT				√					
Inspecting for Atmospheric Corrosion				49 CFR 192.481	√			On-Line/Class/DVD & OJT	√			√					
Ensure Operation of a Rectifier				49 CFR 192.465	√			On-Line/Class/DVD & OJT				√					
Visually Inspecting for Internal Corrosion				49 CFR 192.475	√			On-Line/Class/DVD & OJT	√			√					
Remove Coupons/Sample Gas or Liquids for Analysis and Evaluation of Internal Corrosion				49 CFR 192.477	√			On-Line/Class/DVD & OJT				√					
Clear a Shorted Casing				49 CFR 192.467	√			On-Line/Class/DVD & OJT				√					
Applying Pipe Coating in the Field				49 CFR 192.461	√			On-Line/Class/DVD & OJT	√			√					
Cleaning and Either Coating or Jacketing Pipe for Atmospheric Corrosion				49 CFR 192.479	√			On-Line/Class/DVD & OJT	√			√					
Installing/Replacing a Rectifier On a Pipeline				49 CFR Part 192.465	√			On-Line/Class/DVD & OJT				√					
Installing/Replacing an Anode On a Pipeline				49 CFR Part 192.463 and 192.465	√			On-Line/Class/DVD & OJT	√			√					
Installing, Replacing and Testing Electrical Isolation Couplings On a Pipeline				49 CFR 192.467	√			On-Line/Class/DVD & OJT	√			√					
Install/Replace a Corrosion Test Station On a Pipeline				49 CFR 192.469 and 192.471	√			On-Line/Class/DVD & OJT	√			√					
Repair Coating on Steel Pipelines				49 CFR 192.461	√			On-Line/Class/DVD & OJT	√			√					
Conducting Gas Leakage Surveys				49 CFR 192.706 and 192.723	√			On-Line/Class/DVD & OJT	√								
Patrolling and Inspecting Pipelines				49 CFR 192.705, 192.707, and 192.721	√			On-Line/Class/DVD & OJT	√								
Investigating Leak/Odor Complaints				49 CFR 192.615	√			On-Line/Class/DVD & OJT	√								
Line Locating and Mark Out				49 CFR 192.614	√			On-Line/Class/DVD & OJT	√								
Inspection of 3rd Party Excavations for Damage Prevention/Cast Iron Encroachment				49 CFR 192.614 and 192.755	√			On-Line/Class/DVD & OJT	√								
Inspecting the Condition of Exposed Metallic Pipe or Pipe Coating				49 CFR 192.459 and 192.489	√			On-Line/Class/DVD & OJT	√								

All Gas

Health Safety & ENV Training Requirements				Training Provider			Delivery Method	Gas Department								Notes
Course	Course Code	Course Hrs Per Session	Freq	Federal Regulation	Tech. Training	SAFETY		LOB	C&M	M&T	M&R	I & R	Corrosion	Welder	Gas Control	
Inspect Pipe for Damage				49 CFR 192.307	√			On-Line/Class/DVD & OJT	√							
Repair Transmission Line Leaks				49 CFR 192.717	√			On-Line/Class/DVD & OJT								
Repair and Maintain Transmission Line Valves				49 CFR 192.745	√			On-Line/Class/DVD & OJT								
Lubricate Transmission Line Valves				49 CFR 192.745	√			On-Line/Class/DVD & OJT								
Uprating				49 CFR 192.551, 192.553, 192.555, and 192.557	√			On-Line/Class/DVD & OJT								
Repair Distribution Line Leaks				49 CFR 192.703 and 192.753	√			On-Line/Class/DVD & OJT	√							
Repair a Non-Leaking Pipe				49 CFR 192.309, 192.311, 192.713, and 192.753	√			On-Line/Class/DVD & OJT	√							
Installation of Pipe				49 CFR 192.305, 192.307, 49 CFR 192.317, 49 CFR 192.319, and 49 CFR 192.321, 192.323, 192.325, 192.361, 192.379, and 192.381	√			On-Line/Class/DVD & OJT	√							
Purging a Pipeline into Service				49 CFR 192.629	√			On-Line/Class/DVD & OJT	√							
Purging a Pipeline Out of Service				49 CFR 192.629	√			On-Line/Class/DVD & OJT	√							
Performing Pressure Test on a Pipeline				49 CFR 192.503, 192.505, 192.507, 192.511, 192.513, and 192.725	√			On-Line/Class/DVD & OJT	√							
Stopping Gas Flow				49 CFR 192.605 and 192.751	√			On-Line/Class/DVD & OJT	√							
Abandonment or Deactivation of Facilities				49 CFR 192.727	√			On-Line/Class/DVD & OJT	√							
Tapping Pipelines Under Pressure				49 CFR 192.62	√			On-Line/Class/DVD & OJT	√							
Starting Up or Shutting Down Any Part of the Pipeline That Could Cause MAOP to be Exceeded				49 CFR 192.605	√			On-Line/Class/DVD & OJT								
Remove Service Tee or Fitting From Steel and Cast Iron Mains				49 CFR 192.605 and 192.751	√			On-Line/Class/DVD & OJT	√							
Install/Replace Tracer Wire				49 CFR 192.321	√			On-Line/Class/DVD & OJT	√							
Inspect, Lubricate and Operate Valves				49 CFR 192.745 and 49 CFR 192.747	√			On-Line/Class/DVD & OJT	√							
Repair Distribution Line Valves				49 CFR 192.747	√			On-Line/Class/DVD & OJT	√							
Repair In-Line Welds				49 CFR 192.245 and 192.715	√			On-Line/Class/DVD & OJT								
Restore Service				49 CFR 192.605 and 192.615	√			On-Line/Class/DVD & OJT	√							
Abandon a Gas Service Line				49 CFR 192.727	√			On-Line/Class/DVD & OJT	√							
Mechanical Joining of Pipe Other Than Plastic				49CFR 192.273, 192.275, and 192.277, 192.279	√			On-Line/Class/DVD & OJT	√							
Joining Plastic Pipe				49 CFR 192.281 and 192.285	√			On-Line/Class/DVD & OJT	√							
Install Tapping Tee on Pipe				49 CFR 192.273, 192.281, 192.285, and 192.287	√			On-Line/Class/DVD & OJT	√							
Inspect Plastic Pipe Joint				49 CFR 192.287	√			On-Line/Class/DVD & OJT	√							
Non-Destructive Testing of Welds				49 CFR 192.241 and 192.243	√			On-Line/Class/DVD & OJT								

All Gas

Health Safety & ENV Training Requirements				Training Provider			Delivery Method	Gas Department								Notes
Course	Course Code	Course Hrs Per Session	Freq	Federal Regulation	Tech. Training	SAFETY		LOB	C&M	M&T	M&R	I & R	Corrosion	Welder	Gas Control	
Welding on a Pipeline				49 CFR 192.227, 192.229, 192.231, 192.233, and 192.235	√			On-Line/Class/DVD & OJT								
Controlling and Monitoring Gas Pressures and Flows				49 CFR 192.619, .621, or .623	√			On-Line/Class/DVD & OJT								
Operation of Remote Control Valves				49 CFR 192.619, 621 and 623	√			On-Line/Class/DVD & OJT								
Inspect Recording Gauge				49 CFR 192.739 and 192.741	√			On-Line/Class/DVD & OJT								
Inspect and Test Pressure Regulator Station				49 CFR 192.739 and 192.741	√			On-Line/Class/DVD & OJT								
Install and Test Overpressure Protection				49 CFR 192.739 and 192.743	√			On-Line/Class/DVD & OJT								
Inspect Telemetry Equipment at a Pressure Limiting or Regulating Station				49 CFR 192.741	√			On-Line/Class/DVD & OJT								
Bypass a Regulator				49 CFR 192.619, 621 or 623	√			On-Line/Class/DVD & OJT								
Field Interpretation of Pressure Recording Charts				49 CFR 192.741	√			On-Line/Class/DVD & OJT								
Inspecting a Pressure Regulator Vault				49 CFR 192.749	√			On-Line/Class/DVD & OJT								
Operating an Odorizer				49 CFR 192.625	√			On-Line/Class/DVD & OJT								
Monitor Natural Gas Odorization Levels				49 CFR 192.625	√			On-Line/Class/DVD & OJT								
Abnormal Operating Conditions and Properties of Natural Gas				49 CFR 192.80	√			On-Line/Class/DVD & OJT								
Propane Air Plant Abnormal Operating Conditions and Properties of Natural Gas and Propane				49 CFR 192.803	√			On-Line/Class/DVD & OJT								
Operator Excavation and Backfilling in the Vicinity of a Pipeline				49 CFR 192.327, 192.361, and 192.605	√			On-Line/Class/DVD & OJT								
Installation of Customer Meters and Regulators				49 CFR 192.353, 192.355, and 192.357	√			On-Line/Class/DVD & OJT								
Inspecting and Maintaining Air Compressors at LP-Air Plants				49 CFR 192.605, NFPA 59 and 49 CFR Part 192 Subpart N	√			On-Line/Class/DVD & OJT								
Inspecting and Maintaining Instrument Air Dryers at LP-Air Plants				49 CFR 192.605, NFPA 59 and 49 CFR Part 192 Subpart N	√			On-Line/Class/DVD & OJT								
Inspecting and Maintaining Emergency Shutoff Systems at LP-Air Plants				49 CFR 192.605, NFPA 59 and 49 CFR Part 192 Subpart N	√			On-Line/Class/DVD & OJT								
Maintaining Fire Protection Systems at LP-Air Plants				49 CFR 192.605 and NFPA 59	√			On-Line/Class/DVD & OJT								
Inspecting and Maintaining Storage Tanks, Piping, Valves and Fittings at LP-Air Plants				49 CFR 192.605, NFPA 59 and 49 CFR Part 192 Subpart N	√			On-Line/Class/DVD & OJT								
Inspecting and Maintaining Vapor Compressors at LP-Air Plants				49 CFR 192.605, NFPA 59 and 49 CFR Part 192 Subpart N	√			On-Line/Class/DVD & OJT								
Inspecting, Operating and Maintaining Vapor Detection Systems at LP-Air Plants				49 CFR 192.605, NFPA 59 and 49 CFR Part 192 Subpart N	√			On-Line/Class/DVD & OJT								
Inspecting and Maintaining Propane Vaporizers at LP-Air Plants				49 CFR 192.605, NFPA 59 and 49 CFR Part 192 Subpart N	√			On-Line/Class/DVD & OJT								
Load, Unload and Transfer Liquid Propane at LP-Air Plants				49 CFR 192.605 and NFPA 59	√			On-Line/Class/DVD & OJT								
Inspecting and Maintaining Auxiliary Power Sources at LP-Air Plants				49 CFR 192.605 and NFPA 59 12.3	√			On-Line/Class/DVD & OJT								
Operating a Propane Air Plant				49 CFR 192.605 and NFPA 59 and section 4.1	√			On-Line/Class/DVD & OJT								
Bending of Steel Pipe				49 CFR 192.313 and 192.315	√			On-Line/Class/DVD & OJT								

All Gas

Health Safety & ENV Training Requirements				Training Provider			Delivery Method	Gas Department								Notes
Course	Course Code	Course Hrs Per Session	Freq	Federal Regulation	Tech. Training	SAFETY		LOB	C&M	M&T	M&R	I & R	Corrosion	Welder	Gas Control	
Pipe Line Piging					√			On-Line/Class/DVD & OJT								
Backhoe Operation					√			On-Line/Class/DVD & OJT								
Skid Steer Operations					√			On-Line/Class/DVD & OJT								
CDL licensing					√			On-Line/Class/DVD & OJT								

Key & Notes

How Delivered		By Who		How Recorded		Frequency		Goups	
Class	Class room training	HS&E	Health & Safety	PS	Recorded in PeopleSoft	A	Annual Training Required	M	Maintenance
Field	Formal training not at training center - Field or Ops Center	LA	Lines Academy	LNG DB	LNG Department Data Base	L	Required to be taken only once	Con	Construction
On-Line	Computer course	TL	Technical Learning	HC	Hard Copy Maintained by Department	2	Required every other year	S	Service
OTJ/Hands On	On The Job - Could be in safety or tool box meeting/drill	Contractor / Cont.	Contracted Out			3	Required every 3 years	I&R	Regulation
Video/DVD	Training is delivered by reviewing a video/DVD delivered by supervisors.	Supv	Dept Supervisor			5	required every 5 years or as necessary	Cor	Corrosion
								DP	Damage Prevention
								MR	Meater Reading
								MO	Meter Ops

Supervisor & Manager Specific

Health Safety & ENV Training Requirements					Training Provider			Delivery Method	Notes
Course	Course Code	Course Hrs Per Session	Freq	Federal Regulation	Tech. Training	SAFETY	LOB		
Accident Investigation	SAG036	2.00	L	1910.1904	√	√		On-Line/Class/DVD	
Behavioral Observations	DA101	1.00	L	CFR 382.603		√		On-Line/Class/DVD	Required initially and best practice annual only
NERC Training									
C&C	ELO004	24.00	L	1910.269	√	√		Class	as needed
C&C	ELO005	4.00	A	1910.269	√	√		Class	as needed
Electric Hazard Awareness	SEL003	1.00	2	1910.301	√	√		On-Line/Class/DVD	Initial training upon assignment National Grid requires this training for affected workers be refreshed every 24 months
ENV 250 Environmental training	SAV001	2.00	A	1925.59/1910.1200, 40CFR265.16, 40CFR112.7, RI36.4.14, State HW Regs	√	√	√	On-Line/Class/DVD	Initial training upon assignment. Refresher training to be done through video shown annually
ENV 700 Environmental Wetlands Engineers & Project Managers Only)	SAV00?	2.00	A	1925.59/1910.1200, 40CFR265.16, 40CFR112.7, RI36.4.14, State HW Regs	√	√	√	On-Line/Class/DVD	Intended for Project managers and Engineering groups or as needed
Hoisting & Rigging (includes forklift)	SAG032	40.00	L-3	1910.178	√			On-Line/Class/DVD & OJT	As needed for role/initial training upon assignment forklift refresher every 3 years
Forklift Recertification	SFL006	1.00	3	1910.78	√		√	On-Line/Class/DVD	As needed for role
Haz Com	SAG005	2.00	L	1925.59/1910.1200	√			On-Line/Class/DVD	Initial training to be done within 30 days of assignment on accessing MSDS systems. Reviews of any new products to be done by field supervisor
Haz Mat Transportation	SA6067	2.00	3	1926.59/1910.1200/49 CFR Subpart 171-180	√	√	√	On-Line/Class/DVD & OJT	Video training once every 3 years - ENV420
Hazardous Waste Handler	SA6069	8.00	A	1926.59/1910.1200	√	√	√	On-Line/Class/DVD & OJT	As needed for role
PPE	SAG021	1.00	L	1910.132	√	√	√	On-Line/Class/DVD & OJT	Initial training upon assignment. Additional training for changes to procedures/equipment to be as needed by field personnel
SUSA/Compliance assessment	SAG016	8.00	L	1910.269		√		On-Line/Class/DVD	as needed for role
Work Area Protection /WZTC	SA6146	2.00	L	Title 23 CFR Subpart 655/603	√	√	√	On-Line/Class/DVD & OJT	Initial training upon assignment. Additional training for regulatory changes to procedures to be as needed.

Key & Notes

How Delivered	By Who	How Recorded	Frequency
Class	Class room training HS&E	Health & Safety PS	Recorded in PeopleSoft A
Field	Formal training not at training center - Field or Ops Center LA	Lines Academy LNG DB	LNG Department Data Base L
On-Line	Computer course TL	Technical Learning HC	Hard Copy Maintained by Department 2
OJT/Hands On	On The Job- Could be in safety or tool box meeting/drill Contractor / Cont.	Contracted Out	3
Video/DVD	Training is delivered by reviewing a video/DVD delivered by supervisors. Supv	Dept Supervisor	5

Key and Notes							
How Delivered		By Who		How Recorded		Frequency	
Class	Class room training	HS	Health & Safety	PS	Recorded in PeopleSoft	A	Annual Training Required
Field	Formal training not at training center - Field or Ops Center	LA	Lines Academy	LNG DB	LNG Department Data Base	L	Required to be taken only once
On-Line	Computer course	TL	Technical Training	HC	Hard Copy Maintained by Department	2	Required every other year
OTJ/Hands On	On The Job - Could be in safety or tool box meeting/drill	Contractor / Cont.	Contracted Out			3	Required every 3 years
Video	Training is delivered by reviewing a video delivered by supervisors. Unknown if all video training is documented in PeopleSoft.	Supv Dept	Dept Supervisor Respective Department			5	required every 5 years

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

DA 16-560

Affiliate Agreement with Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
related to Concord Training Center

Staff Data Requests - Set 1

Date Request Received: 6/3/16
Request No. Staff 1-4

Date of Response: 6/14/16
Respondent: Mark Smith

REQUEST:

Please describe how the training center is, and will be, used and the number of days per year for each function/activity. For each category of use, please provide a schedule showing the time spent on each function since the facility commenced operations through April 30, 2016 and the expected usage for the 12 months May 1, 2016 through April 30, 2017. Please provide schedules in both hard copy and Excel.

RESPONSE:

The Liberty Utilities Training Center will be utilized on a daily basis for electric and gas training. In between training sessions, the technical trainers are continually developing new training processes and are continuing to outfit the facility.

The structure is about 6,000 square feet on 11 acres, including 3,000 square feet of hands-on indoor lab space. The current training infrastructure consists of the following:

- Two classrooms for approximately 16 students each, complete with smart boards;
- A gas leak field used to train technicians on analyzing and finding leaks;
- A pole line outdoors to train overhead lineworkers on construction and pole top rescue;
- A manhole built into the second floor to train employees on enclosed space manhole rescue;
- Live gas boilers and furnaces to train technicians on re-lights, leak detection, etc.; and
- Live electric transformers, switch gear, meters, and related equipment to train employees on installation and troubleshooting of electric utility infrastructure.

The Training Center affords us the opportunity to train locally, rather than sending employees out of state. The travel and expense savings alone are a major benefit. We now have control over the timing and programs of our employee training and can adapt as necessary to best meet the needs of our gas and electric personnel.

The Technical Training Matrix/Schedules for 2015 and 2016 are included as Attachments Staff 1-4.1.xlsx and Staff 1-4.2.xlsx, respectively. National Gas Association Operator Qualification

testing requirements are being revised currently. Planning for 2017 will be based on these changes.