

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

DG 17-152

Least Cost Integrated Resource Plan

Clark Data Requests - Set 1

Date Request Received: 4/9/18  
Request No. Clark 1-10

Date of Response: 4/23/18  
Respondent: William R. Killeen  
William J. Clark

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**REQUEST:**

Reference RSA 162-H:2, VII(a). Please state the total onsite gas storage capacity of the proposed Keene facility being considered under Docket DG 17-068 and identify how many days of continuous operation at a rate equivalent to the energy requirements of a 30 megawatt electric generating station the facility will be able to operate with a full complement of gas stored at the site.

**RESPONSE:**

A new, high-efficiency 30 megawatt electric generating station would consume an equivalent of approximately 325,000 gallons of LNG over seven days, or approximately 46,400 gallons of LNG per day, operating continuously at full capacity, assuming a heat rate of 7,100 Btu/kWh.

The proposed facilities at Keene, assuming full build out, would include storage facilities for an equivalent of 100,000 gallons of LNG. Thus, the proposed Keene storage would be capable of fueling a 30 MW electric generating facility for approximately 2.2 days.