

Notice Number _____

Rule Number _____

En 500

1. Agency Name & Address:

**Department of Energy
21 S. Fruit St., Ste. 10
Concord, NH 03301**

2. RSA Authority: **RSA 12-P:5, IV**

3. Federal Authority: _____

4. Type of Action:

Adoption **X**

Repeal _____

Readoption _____

Readoption w/amendment _____

5. Short Title: **Rules For Gas Service**

6. (a) Summary of what the rule says and of any proposed amendments:

The Department of Energy (Department) is proposing to adopt Chapter En 500 regarding gas service, which is based on the existing Puc 500 rules of the Public Utilities Commission (PUC), but with modifications, such as by replacing the term “Commission” with the term “Department,” in order to effectuate the division of gas service regulatory responsibilities between the Department and the Public Utilities Commission (PUC), with the division of responsibilities also resulting in the renumbering of the existing Puc rules that are to be included in the En rules. The Department drafted the En 500 rules in coordination with the PUC pursuant to RSA 12-P:3, II. The En 500 rules preserve the hearing process in the existing Puc 500 rules, but reflect that enforcement is the responsibility of the Department and hearings thereon are within the jurisdiction of the PUC.

The Department is exercising its authority in accordance with RSA 12-P:2, which created the Department effective July 1, 2021, and RSA 12-P:5, IV regarding rules “necessary to assure continuance or granting of federal funds” (the proposed rules are necessary to retain PHMSA gas pipeline safety funding) and regarding “rules necessary to implement the specific statutes administered by the department.” The PUC formerly regulated pipeline safety, and RSA 12-P:13, I directs the Department to continue such efforts.

As a result, the Department is adopting all applicable, existing Puc 500 rules enforcing RSA 362, et seq., regarding “safe and reliable utility service.” More specifically, the En 500 rules apply to gas utilities and operators in the state and govern gas service by adopting the existing Puc 500 rules regarding gas quality, meter accuracy and testing, equipment and facilities, record retention, safety standards, accident and leak reporting, utility advertising, other reporting and accounting, and appropriate enforcement procedures and applicable forms.

6. (b) Brief description of the groups affected:

En 500 rules generally apply to any public utility providing gas service to the public in the state of New Hampshire and their customers. En 511 and En 512 apply to LP and LNG and landfill operators in the state.

6. (c) Specific section or sections of state statute or federal statute or regulation which the rule is intended to implement:

| Rule(s) | Specific State or Federal Statute or Regulation the Rule Implements |
|------------------|---|
| En 501.01-501.02 | RSA 12-P:5, IV; RSA 362:2, 4-b; 40 U.S.C. 60101 et seq. |
| En 502.01-502.27 | RSA 12-P:5, IV; U.S.C. 60101 |
| En 503.01-503.04 | RSA 12-P:5, IV; RSA 370:1-5 |
| En 504.01-504.07 | RSA 12-P:5, IV; RSA 374:1; RSA 374:54; 49 C.F.R. Parts 191 and 192 |
| En 505.01-505.07 | RSA 12-P:5, IV; RSA 370:1-11; RSA 374:3 |
| En 506.01-506.03 | RSA 12-P:5, IV; 49 C.F.R. Parts 191, 192, 193, 198 and 199; 40 U.S.C. 5121, 60102, 60103, 60104, 60117, 60118 & 60126; 49 C.F.R. 192.615 |
| En 507.01-507.06 | RSA 12-P:5, IV; RSA 374:3, 8; RSA 374:15; 18 C.F.R. Part 201 |
| En 508.01-508.05 | RSA 12-P:5, IV; RSA 370:1-5; RSA 374:48-56 |
| En 509.01-509.18 | RSA 12-P:5, IV; RSA 369:3; RSA 370:1-5; RSA 374:1, 5, 15; 15 U.S.C. § 717 et seq. |
| En 510.01-510.10 | RSA 12-P:5, IV; RSA 362:4-b; RSA 370:2; RSA 374:3, 7-a; 49 U.S.C. § 60101 |
| En 511.01-511.16 | RSA 12-P:5, IV; RSA 91-A:5; RSA 370:2; RSA 374:3-4; 49 C.F.R. Parts 191 and 192; 49 C.F.R. Part 191.9; 49 C.F.R. Part 192; 49 C.F.R. Part 192.615 |
| En 512.01-512.10 | RSA 12-P:5, IV; RSA 362:4-b; RSA 370:2; RSA 374:7-a; 49 U.S.C. § 60101 |

7. Contact person for copies and questions including requests to accommodate persons with disabilities:

Name: **Andrew J. Harmon, Esq.**

Title: **Hearings Examiner**

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TTY/TDD Access: Relay NH 1-800-735-2964
or dial 711 (in NH)

8. Deadline for submission of materials in writing or, if practicable for the agency, in the electronic format specified: **July 13, 2023**

Fax

E-mail

Other format (specify):

9. Public hearing scheduled for:

Date and Time: **Thursday, June 29, 2023 at 1:00 p.m.**

Place: **New Hampshire Public Utilities Commission
Hearing Room A
21 South Fruit Street
Concord, NH 03301**

10. Fiscal Impact Statement (Prepared by Legislative Budget Assistant):

FIS # **23:096**, dated **April 19, 2023**

1. Comparison of the costs of the proposed rule(s) to the existing rule(s):

There is no difference in cost when comparing the proposed new En 500 rules to the existing Puc 500 rules.

2. Cite the Federal mandate. Identify the impact on state funds:

Several provisions of the En 500 rules refer to requirements in federal law. In accordance with RSA 12-P:13,I, the Department continues the former efforts of the PUC in applying annually to the Pipeline and Hazardous Materials Safety Administration of the U.S. Department of Transportation for authorization to take actions on its behalf to oversee pipeline operation safety, security, monitoring, and compliance through an inspection process. As a result, the Department, through its Enforcement Division, continues the exercise of authority to enforce federal gas safety requirements pursuant to the Natural Gas Pipeline Safety Act, 49 U.S.C. section 60101 et seq., as required to retain PHMSA gas pipeline safety funding. In this regard, the new En 500 rules adopt the relevant, existing Puc 500 rules following the reorganization of the PUC and the creation of the Department, with a revision to En 504.05(c) to require emergency response notifications in one hour rather than two, consistent with federal requirements. There is no impact on State funds.

3. Cost and benefits of the proposed rule(s):

A. To State general or State special funds:

None.

B. To State citizens and political subdivisions:

None.

C. To independently owned businesses:

None.

11. Statement Relative to Part I, Article 28-a of the N.H. Constitution:

The proposed rules do not mandate or assign any new, expanded, or modified programs or responsibilities to any political subdivision of the State of New Hampshire. They, therefore, do not violate Part I, Article 28-a of the N.H. Constitution by necessitating additional local expenditures by a political subdivision.

Adopt En 500, to read as follows:

CHAPTER En 500 RULES FOR GAS SERVICE

PART En 501 APPLICATION OF RULES

En 501.01 Application of Rules.

(a) En 503 through En 510 shall apply to every utility as defined by En 502.27, with the exception of LPG operators and landfill gas operators.

(b) En 511 and En 512 shall apply only to landfill gas operators and LPG operators as defined in En 502.13 and En 502.16.

En 501.02 Purpose. The purpose of these rules is to implement the department's responsibility pursuant to the Natural Gas Act, 15 USC § 717 (c), the Natural Gas Pipeline Safety Act, 49 USC § 60105, and New Hampshire law regulating gas utilities and gas utility service.

PART En 502 DEFINITIONS

En 502.01 "Check flow" means a flow rate of 15% to 25% of the rated capacity of a meter.

En 502.02 "Commission" means the New Hampshire public utilities commission.

En 502.03 "Cubic foot" means, for the purpose of measurement of gas to a customer, the amount of gas which occupies a volume of one cubic foot under the conditions existing in the customer's meter as and where installed, provided such meter is not subject to abnormal temperature conditions unless the meter is designed with temperature compensation.

En 502.04 "Customer" means any person, firm, corporation, cooperative marketing association, utility or governmental unit or subdivision of a municipality or of the state or nation supplied with gas service by a utility.

En 502.05 "Department" means the New Hampshire department of energy.

En 502.06 "Economic conservation" means conservation activities that cost less to implement than the value of the resources saved.

En 502.07 "Fast" means greater than plus 2% accuracy.

En 502.08 "Gas" means any manufactured or natural gas or any combination thereof.

En 502.09 "Incident" means "incident" as defined in 49 CFR Part 191.3.

En 502.10 "Jurisdictional LPG system" means:

- (1) A system involving a single source which serves 10 or more customers; or
- (2) A system where more than one customer is located in a public place.

En 502.11 "Landfill" means a facility which collects and disposes of waste by landfilling methods. The term includes facilities that collect and store waste indefinitely. The term does not include incinerators, land application sites, surface impoundments and injection wells.

En 502.12 "Landfill gas" means any flammable consisting primarily of methane and carbon dioxide and produced by aerobic and anaerobic decomposition of organic solid waste in a landfill.

En 502.13 "Landfill gas operator" means a person who engages in the transportation of landfill gas off site from the premises in which it was gathered except where the landfill gas is transferred in a pipeline that operates at less than atmospheric pressure from the premises where it was gathered to the premises where it is used and where both premises are controlled by the same entity.

En 502.14 "LNG" means liquefied natural gas.

En 502.15 "LPG" means liquefied petroleum gas.

En 502.16 "LPG operator" means a person who engages in the transportation of propane gas. An LPG operator includes but is not limited to an individual or supplier operating a jurisdictional LPG system in a housing project, apartment complex, condominium, manufactured home park, shopping center or other system except those systems operated in support of a utility.

En 502.17 "Master meter system" means any underground gas pipeline system operated by a residential or commercial customer of a New Hampshire gas utility and utilized for the distribution of gas to ultimate consumers within, but not limited to, a definable area, such as a manufactured housing park, a housing project or an apartment complex, where the operator purchases metered gas from a public utility for resale through the operator's distribution system, which is beyond the control of the utility, and where the ultimate consumers served by the operator's distribution system purchase the gas directly through a meter or by other means, such as through rents.

En 502.18 "Meter" means a device which measures gas flow and which may include a gas diaphragm type, a rotary positive displacement type, an inferential turbine type or an ultrasonic type.

En 502.19 "Open Flow" means a flow rate of 80% to 120% of the rated capacity of a meter.

En 502.20 "Peak Shaving" means the use of fuels and equipment to generate or manufacture gas to supplement the normal supply of pipeline gas during periods of extremely high demand.

En 502.21 "Person" means an individual, firm, joint venture, partnership, corporation, association, state, cooperative association, or joint stock association, and includes any trustee, receiver, assignee, or personal representative thereof but shall not include a municipality operating a gas system pursuant to RSA 38.

En 502.22 "Public place" means a place which is generally open to all persons in a community, such as churches, schools, and commercial buildings, as well as any publicly owned rights-of-way or property.

En 502.23 "Slow" means greater than minus 2% accuracy.

En 502.24 "Standard gravitational force" means acceleration at 32.17 feet per second squared.

En 502.25 "Total heating value" means the number of British thermal units (Btu) produced by the combustion, at constant pressure, of the amount of gas which would occupy a volume of one cubic foot at a temperature of 60 degrees Fahrenheit and under standard gravitational force with air of the same temperature and pressure as the gas, when the products of combustion are cooled to the initial temperature of the gas and air, and when the water formed by combustion is condensed to the liquid state.

En 502.26 "Turbine Meter" means an inferential type meter.

En 502.27 "Utility" means any "public utility" as defined in RSA 362:2 engaged in the manufacture, distribution, sale, transmission or transportation of gas in the state, as limited in RSA 362:4-b with respect to liquefied petroleum gas.

PART En 503 SERVICE PROVISIONS

En 503.01 Measurement of Services. A utility shall charge for all gas sold or transported on a metered basis.

En 503.02 Meter Reading.

(a) Each service meter of the displacement type shall indicate clearly the cubic feet of gas registered.

(b) When gas is measured under high pressure or when the quantity is determined by calculation from recording devices, the utility shall supply the customer with the information needed to make clear the method by which the quantity is determined.

(c) All meter constants shall be plainly marked on the face of the meter.

En 503.03 Change in Character of Service.

(a) A utility shall provide certain services to its customers when service conditions such as change in pressure or composition of the gas affect or would affect efficiency of operation or adjustment of appliances.

(b) When any change occurs as described in (a) above, a utility shall, without undue delay and without charge, inspect the appliances of its customers and, if necessary, readjust those appliances for the new conditions.

En 503.04 Customer Relations. Each utility shall comply with rules governing provision of service to customers contained in En 1200, uniform administration of utility customer relations.

PART En 504 QUALITY OF GAS SERVICE

En 504.01 Heating Value Requirements.

(a) Each utility shall establish its own standard heating value for the gas it furnishes the public. At no time shall the daily average heating value be less than the established standard. The standard adopted by the utility shall be stated in its tariff as required by Puc 504.01(a).

(b) Each utility shall, unless it only takes gas from interstate pipelines, maintain equipment for measuring thermal content as follows:

(1) Each utility shall maintain a standard calorimeter outfit or gas chromatograph for the regular determination of the heating value of gas sold; and

(2) Each utility shall use the manufacturer's recommended procedures as a basis for:

a. Maintaining the accuracy of all calorimeters and gas chromatographs; and

b. The method of measuring heating value tests.

(c) The total heating value of the gas shall be determined at least once daily and more often as is necessary to obtain an accurate record of the average heating value and of the fluctuation in heating value.

(d) Each utility shall provide a definition in its tariff of the methodology used to determine the thermal heating value as required by Puc 504.01(b).

(e) To obtain the monthly average heating value the results of all tests of heating value made on any day during the calendar month shall be averaged, and the average of all daily averages shall be taken as a monthly average.

(f) If a utility's calorimeter or gas chromatograph is of the recording type, its record shall be used in determining the average heating value provided that the recording calorimeter or gas chromatograph is checked at least annually.

(g) Heating value reports shall be made on Form E-6 once a month pursuant to En 509.06.

En 504.02 Purity Requirements. All gas distributed in New Hampshire shall contain not more than 20 grains of total sulphur per 100 cubic feet nor more than one fourth of one grain of hydrogen sulphide per 100 cubic feet. Upon customer request, the utility shall provide the sulphur content for the volume billed.

En 504.03 Pressure Requirements.

(a) Pipeline systems containing cast iron segments shall be limited to a maximum pressure of 13.8 inches of water column.

(b) Consistent with system design, the pressure at the outlet of any customer's service meter shall never be:

(1) Less than 4 inches of water column; or

(2) Greater than 13.8 inches of water column, except by written agreement with the customer.

(c) In order to maintain records of pressure, each utility shall maintain in continuous operation a sufficient number of pressure recording devices in each area where the utility maintains a distribution system.

(d) All pressure records obtained under paragraphs (b) or (c) above shall be retained by the utility for at least 5 years and shall be available for inspection by the department.

(e) For pressures at the outlet of any customer's service meter that exceed (b) (2) above, a legible permanent identification that includes the maximum delivery pressure shall be installed at the service meter. If the utility determines that a previously installed identification is not present, the utility shall install a new permanent identification as soon as practicable but no later than 60 days upon discovery of the missing identification.

(f) The utility shall retain a copy of all written customer agreements for the initial installation of any service with delivering pressures greater than 13.8 inches of water column. Such records shall be retained until the service line has been abandoned.

(g) Each utility shall make reports of pressure complaints monthly on Form E-8 pursuant to En 509.08.

En 504.04 Interruptions of Service.

(a) Each utility shall use all practicable means to avoid interruptions to service, including maintaining appropriate levels of maintenance and planning for unexpected events.

(b) Should interruptions occur, a utility shall re-establish service within the shortest time practicable consistent with safety.

(c) Each utility shall keep a record of all interruptions to service.

(d) Each utility shall include in its record of service interruptions the following:

(1) The date and time of interruption;

(2) The approximate number of customers affected;

- (3) The date and time of service restoration;
- (4) The cause of such interruption when known; and
- (5) A description of steps taken to prevent its recurrence.

(e) Each utility shall provide emergency notification of service interruptions to the department as provided in En 504.05(a).

(f) Each utility shall report all service interruptions on Form E-23, pursuant to En 509.09, once a month, if any interruption occurs.

(g) When service is interrupted to perform work on lines or equipment, such work shall be done at a time causing minimum inconvenience to customers consistent with the circumstances.

(h) Customers seriously affected by interruption to service to perform work on lines or equipment shall be notified in advance, if practicable.

(i) A utility shall provide actual notice of a planned service interruption to any customer of which it has notice whose service will be interrupted and who would encounter a potentially life-threatening situation as a result of a service interruption of the type planned.

(j) Additional requirements shall be contained in En 1203.19.

En 504.05 Emergency Notification.

(a) The utility shall notify the enforcement division of the department by telephone when any of the following events occur:

- (1) A release of gas from a pipeline, release of LNG or LPG, or release of gas from a LNG or LPG facility that results in:
 - a. A death;
 - b. Personal injury necessitating same day professional medical treatment; or
 - c. Estimated property damage of \$5,000 or more;
- (2) A fire or an explosion at, or emergency shutdown of, a liquefied natural gas facility, or propane-air facility;
- (3) An evacuation of a building conducted by a fire department, utility or other emergency personnel because of the presence of gas in the atmosphere or in, or in the immediate vicinity of, the building;
- (4) An unplanned service interruption or gas outage that is expected to result in 50 or more customer outage hours;
- (5) A single outage occurring at a state, federal, or municipal facility, hospital, school or other facility in which the public could be affected;
- (6) A breach of security or other threat that jeopardizes the operation of a utility's major facilities;
- (7) Any exceedance of maximum allowable operating pressure of any duration, including accidental over-pressurizations, consistent with En 506.01(a);

(8) A gas facility-related event, that the utility is aware of or has reason to believe has been or will be reported in the news media, including, but not limited to, a shutdown of a major highway, arterial roadway or rail system, or where a person identified as a news reporter was present;

(9) When the utility confirms that levels of odorant do not meet the requirements of En 506.02(m); or

(10) An event which is significant in the judgment of the utility, even though it is not described above.

(b) A utility shall not be required to determine or document the presence or involvement of gas in any incident or event before notifying the department.

(c) The telephone notification shall be made promptly, but no more than one hour following confirmed discovery by the utility of the event or any incident defined in En 504.06.

(d) The utility shall provide to the department investigator who responds to the call the following information:

(1) Identity of reporting utility;

(2) Name, title, and location of the person reporting the incident and contact information;

(3) Location of the incident including street address and city or town;

(4) Number of known or estimated fatalities and personal injuries, if any;

(5) Type and extent of known or estimated property damage;

(6) Description of the incident or event including any significant facts known by the utility that relate to the cause and resolution of the problem;

(7) Date and hour the incident occurred and was discovered by the utility and, to the extent known, by any other party;

(8) For a service interruption, gas outage, or evacuation of a building, the estimated or known number of people and/or customers affected and the estimated or actual duration of the outage; and

(9) When the Office of Pipeline Safety of the United States Department of Transportation was, or will be, notified of the incident, if applicable.

En 504.06 Incident Reporting.

(a) In addition to the emergency notification required in En 504.05, a utility shall also report in writing to the department any incident occurring in connection with its facilities and services, as follows:

(1) In accordance with 49 C.F.R. § 191.9 and § 191.15, a utility shall report to the department, within 20 days following discovery, any incident which the utility shall be required to report to the federal Office of Pipeline Safety, which report shall be made on federal Department of Transportation form PHMSA F 7100.1, which is entitled, "Incident Report - Gas Distribution Systems" and a copy thereof shall be submitted to the department; and

(2) A utility shall report each month, pursuant to En 509.11, the status of any leaks occurring in its gas distribution system.

(b) A utility shall file all reports required pursuant to (a) above.

(c) When additional relevant information is obtained after a report is submitted under this section, the utility shall make a supplementary report to the department conveying this information.

En 504.07 Emergency Response.

(a) For any utility that serves a single municipality or serves fewer than 2,500 customers, emergency response times shall be limited to within 30 minutes.

(b) Reports on emergency response times shall be submitted as follows:

(1) For any response time in excess of 30 minutes, the utility shall report the amount of time it took to arrive at the location of the report of gas odor, the location of the report of gas odor, and a detailed explanation for its failure to respond to the location within 30 minutes and preventive measures taken to limit potential future exceedances.

(2) On a monthly basis the utility shall report the number of gas odors responded to, leaks and other unplanned releases of gas responded to, and any other emergency responses. The report should include the date, time and location of emergency response and reason for emergency response.

PART En 505 METER INSTALLATION, ACCURACY AND TESTING

En 505.01 Meter Installations.

(a) Unless it obtains a waiver from the department pursuant to En 201.05, each utility shall provide and install at its own expense and shall continue to own, maintain and operate, all equipment necessary for the regulation and measurement of gas to its customers.

(b) When additional meters or increased pressures at the meter outlet, exceeding those required by En 504.03, are furnished by the utility at the request of a customer, a charge for such meters, equipment and the labor to install them may be made to the customer consistent with the utility's tariff..

(c) Meter installations shall be protected from anticipated or potential dangers, including but not limited to vehicles, ice, snow, flooding, or corrosion.

(d) No gas utility in this state shall provide gas service to any master meter system constructed after July 1, 2013, without written approval from the department. The department shall approve such service only if the department finds the service to be consistent with safe and reliable service requirements set forth in these rules.

En 505.02 Inspection of Meters.

(a) Each utility shall take all necessary steps to have each of its meters accurately measure the flow of gas.

(b) All new meters shall be inspected for measurement accuracy before being installed on a customer's premises.

(c) All meters removed from service which are to be reinstalled shall be:

(1) Inspected for measurement accuracy; and

(2) Repaired by replacing worn or damaged parts.

En 505.03 Test and Calibration of Meters.

(a) Each utility shall test all meters for accuracy at both check flow and open flow, as found, prior to adjustment or repair, except for meters removed from service specifically for known leakage, damage, tampering, or non-registration, and meters that have been selected for retirement.

(b) Each utility shall monitor those meters which have been removed from service specifically for known leakage, damage or non-registration on an annual basis to identify problems with certain meter types or manufacturer.

(c) Each utility shall calculate meter accuracy by adding open flow accuracy and check flow accuracy, and dividing the sum by two.

(d) Each utility shall maintain records for each group of meters and shall include in such records the meter accuracy rates for each group for the previous calendar year.

(e) The established meter groups identified in Table 505-1 shall be tested under this part as follows:

Table 505-1 Established Meter Groups

| <u>GROUP</u> | <u>TYPE</u> | <u>CAPACITY</u> |
|--------------|-------------|------------------------------------|
| A | Diaphragm | 0 to 500 cubic feet per hour (CFH) |
| B | Diaphragm | Greater than 500 CFH |
| C | Rotary | All |
| D | Turbine | All |
| E | Ultrasonic | All |

(f) Utilities shall divide the meter accuracy data into 3 accuracy categories, each expressed as a percentage of the total number of meters in a group, as follows:

- (1) Slow meters;
- (2) Those meters with an accuracy rate of plus or minus 2 percent; and
- (3) Fast meters.

(g) When calculating the accuracy categories for (f)(1) through (3) above, the utility shall round the result up to the next whole number.

(h) When a remote meter read device is utilized, the utility shall verify the accuracy of the remote read device whenever the meter is removed from service.

En 505.04 Test Schedule for Gas Meters.

(a) Utilities shall not be required to test meters with a purchase year which indicates an age of 10 years or less provided that the meters belong to a group identified in En 505.03(e) demonstrating an accuracy rate of 96 percent or better, and the utility has the manufacturer's proof test on file.

(b) Each utility shall, on an annual basis, calculate an accuracy rate for each group of meters identified in Table 505.1 of En 505.03(e) by calculating the percentage of slow, fast and accurate meters in the group for purposes of determining the number of meters to be brought in for testing in the subsequent year.

(c) Each utility shall, on an annual basis, examine the previous year's tested meter accuracy data for each group of meters identified in Table 505.1 of En 505.03(e) to determine the sampling plan for the current year.

(d) Each utility shall use accuracy data derived in the previous year's testing for the establishment of the minimum quantity of meters to be tested per group for the current year.

(e) The applicable accuracy rate shall determine the minimum number of meters to be tested according to Table 505-2.

Table 505-2 Minimum Number of Meters to be Tested at Accuracy Rates per Group Identified in En 505.04(d)

| Number of Meters Active in Meter Group | Accuracy Rates | | | | |
|--|----------------|-----------|-----------|-----------|-------------------------------------|
| | 96 to 100% | 93 to 95% | 90 to 92% | 87 to 89% | less than 87% |
| | 96 to 100% | 93 to 95% | 90 to 92% | 87 to 89% | less than 87% |
| 2 to 8 | 5 | 5 | 5 | 8 | Testing as provided in En 505.04(g) |
| 9 to 15 | 5 | 5 | 8 | 13 | |
| 16 to 25 | 5 | 8 | 13 | 20 | |
| 26 to 50 | 8 | 13 | 20 | 32 | |
| 51 to 90 | 13 | 20 | 32 | 50 | |
| 91 to 150 | 20 | 32 | 50 | 80 | |
| 151 to 280 | 32 | 50 | 80 | 125 | |
| 281 to 500 | 50 | 80 | 125 | 200 | |
| 501 to 1,200 | 80 | 125 | 200 | 500 | |
| 1,201 to 3,200 | 125 | 200 | 500 | 1,000 | |
| 3,201 to 10,000 | 200 | 500 | 1,000 | 2,000 | |
| 10,001 to 35,000 | 500 | 1,000 | 2,000 | 3,000 | |
| 35,001 to 100,000 | 1,000 | 2,000 | 3,000 | 4,000 | |
| Greater than 100,000 | | | | | |

(f) For any group of meters with accuracy rates of 95% or less, the utility shall randomly select the meters to test as follows:

- (1) The utility shall select 80% of those meters for testing from the group of meters that have operated for the longest period of time without being tested; and
- (2) The utility shall select 20% of those meters for testing from the group of meters removed from service for non-use or load change.

(g) For any group of meters with accuracy rates of 87% or less, the utility shall attempt to determine the defect responsible for failure and, if the utility cannot identify the defect, or, if the defect is due to the manufacturer, the entire group of meters shall be removed from service.

(h) Utilities shall conduct calibration and accuracy tests of rotary and turbine meters either in the field or at a meter shop and in accordance with manufacturer-recommended procedures and performance standards.

En 505.05 Customer Requested Tests.

(a) When a customer requests a meter test, a utility shall follow the following procedures:

- (1) The utility shall test the accuracy of the customer's meter within 15 days from the time the request is made;
- (2) If the meter has been tested at no charge during the preceding 6 months, a utility may require the deposit of a fee in an amount as specified in the utility's current tariff for such a test;
- (3) If upon testing the meter is found to be in error by more than 2%, the deposit shall be promptly refunded;
- (4) If the meter is not found to be in error by as much as 2%, the utility may retain the amount deposited for the test;
- (5) A customer may be represented in person or by an agent when the utility conducts the test of the customer's meter; and
- (6) The utility shall provide to the customer within 30 days after completion of the test a report giving:
 - a. The name of the customer requesting the test;
 - b. The date of the request;
 - c. The location, the type, make, size and the serial number of the meter;
 - d. The date tested; and
 - e. The result of the test.

(b) When a customer makes written application to the department for testing of a meter, the following shall occur:

- (1) The department staff shall arrange to have the meter tested in staff's presence, as soon as practicable; and
- (2) The utility, when notified of a customer application for a meter test as herein provided, shall not knowingly remove, interfere with, or adjust the meter to be tested without the written consent of the customer and approval by the department for a waiver pursuant to En 201.05.

(c) Reports of periodic tests of meters shall be submitted on a Form E-7, pursuant to En 509.07, once a year. Reports of requests for tests shall be submitted to the department on Form E-24, pursuant to En 509.10, once a month.

(d) The utility shall retain a complete record of the last test made on a meter.

En 505.06 Customer Bill Adjustments.

(a) When a customer's meter or remote read device has been found to be fast or slow, as a result of a meter test made by or on behalf of the utility and at the request of the customer, an adjustment shall be made to the customer's bill.

(b) If the meter or remote read device is found to be a fast meter, the utility shall refund to the customer an amount equal to no less than the charges billed for the excess gas over the previous 24 months of billing.

(c) If the meter or remote read device is found to be a slow meter, the utility shall bill the customer for no more than the unbilled gas supplied during the previous 6 months.

(d) If the meter or remote read device is found to not be registering usage, the utility shall bill the customer for no more than the gas it determines the customer used during the previous 6 months. Determination of gas used shall be based upon information recorded by the meter prior or subsequent to the period of non-registration and on any other pertinent information supplied by the customer or known to the utility.

(e) If a meter is determined to have been assigned to the wrong customer and the customer has been billed based on usage recorded on a meter connected to residential or commercial space not occupied by the customer, the utility shall correct the billing to the affected customers as follows:

(1) for customers who have been underbilled, invoices for the billing difference shall cover the customer's period of occupancy or 6 months, whichever is shorter; and

(2) for customers who have been overbilled, refunds of the billing difference shall cover the period of occupancy or 24 months, whichever is shorter.

En 505.07 Testing Facilities and Equipment.

(a) Each utility shall maintain the equipment and facilities necessary for accurately testing all types and sizes of meters employed for the measurement of gas to its customers, unless the department finds that alternate arrangements made to have such testing done elsewhere will provide equivalent protections to customers.

(b) Meter provers used by the utility or its agent for the testing of meters shall be of a type recommended by the manufacturer and of a capacity of not less than 5 cubic feet.

(c) Each meter prover shall be supplied with accessories needed for accurate meter testing and shall be located in a room suitable for the work to be done.

(d) The utility shall maintain, or cause to have maintained on its behalf, the meter prover in good condition and correct adjustment so that it can determine the accuracy of any gas meter to within 1/2 of one percent.

PART En 506 EQUIPMENT AND FACILITIES

En 506.01 Pipeline Safety Standards.

(a) All utilities including those with propane storage facilities shall comply with those pipeline safety regulations established by the United States Department of Transportation which are set forth in 49 C.F.R. Parts 191, 192, 193, 198 and 199, including future amendments thereto.

(b) Where En 500 or En 800 establishes more stringent safety-related requirements than those pipeline safety regulations adopted pursuant to (a) above, the more stringent requirement set forth in En 500 or En 800 shall apply.

(c) Only an individual who meets operator qualifications in accordance with 49 C.F.R. Part 192, Subpart N shall perform an activity which:

(1) Is performed on a pipeline facility, whether new or existing;

(2) Is an activity involving operations, maintenance or new construction;

- (3) Is performed as a requirement of this part; and
- (4) Affects the operation or integrity of the pipeline.

(d) Utilities shall ensure and document that welders performing welding work on utility pipeline facilities are qualified, as follows:

- (1) No utility shall permit a welder to make any pipeline weld unless the welder has qualified by destructive testing within the preceding 63 months, but at least once every 5 calendar years in accordance with 49 C.F.R. § 192.7 and Appendix C to Part 192;
- (2) Utilities shall verify that any welder originally qualified under an earlier edition of Section 6 of American Petroleum Institute Standard 1104, Welding of Pipelines and Related Facilities (API 1104), as referenced in 49 C.F.R. § 192.7, shall be certified by the referenced edition;
- (3) En 506.01(d)(1) and (2) shall not apply to those portions of LNG facilities or propane storage facilities that are not subject to 49 C.F.R. Part 192; and
- (4) No utility shall permit a welder to weld with a particular welding process unless the welder has engaged in welding with that process within the preceding 6 calendar months. Utilities shall verify that a welder who has not engaged in welding with that process within the preceding 6 calendar months is requalified for that process as set forth in (1) and (2) above.

(e) In addition to the above requirements, the operator shall ensure that all welds are visually inspected by a welding inspector qualified in accordance with API 1104, section 8.3, and that welds are evaluated consistent with API 1104, section 9, as referenced in 49 C.F.R. § 192.7.

(f) For projects that include welds on any pipeline main or transmission line operating at pressures greater than 60 pounds per square inch gauge (psig), or welds at a service and main interface or a service and transmission line interface operating at such pressures, or any welding project involving a pressure regulator station, the operator shall:

- (1) Conduct a non-destructive field test on at least 10 percent of welds completed for a project that consists of at least 10 welds; or
- (2) Conduct a non-destructive field test on at least one weld for projects that include 5 to 9 welds.

(g) Non-destructive tests shall include but not be limited to radiographic, magnetic particle, liquid penetrant, or ultrasonic tests, but shall not include visual inspection, and shall be evaluated using the criteria set forth in API 1104, section 9, as referenced in 49 C.F.R. § 192.7.

(h) If any weld fails a non-destructive test, that weld shall be repaired and retested, and the utility shall perform non-destructive tests on no less than 50 percent of all welds for that project. Upon additional failures, the utility shall repair the failed welds and perform non-destructive tests on 100 percent of all welds for that project.

(i) En 506.01(e), (f), (g) and (h) shall not apply to those portions of LNG facilities or propane storage facilities that are not subject to 49 C.F.R. Part 192.

(j) Inspection of Materials as required by 49 C.F.R § 192.307 and Repair of Pipe as required by 49 C.F.R § 192.311 shall be applicable to all plastic pipelines including services.

(k) A utility shall ensure the periodic inspection and calibration of all equipment, used in construction, operations, and maintenance activities where improper calibration or failure to inspect could impact its

performance. Equipment calibrations shall be in accordance with the frequencies defined in the manufacturers' procedures and specifications.

(l) Utilities shall have the means to verify calibrations of all such equipment covered under (k) above in the field upon the request of the enforcement division of the department.

(m) Whenever conditions permit, gas service lines installed after July 1, 2013 shall be installed with a cover of not less than 18 inches above the top of the pipe, except where interference with other sub-surface structures or the insertion of previously installed service lines makes it impracticable to maintain this depth of cover. In such cases, applicable protective devices such as steel plating or concrete padding shall be installed. Installation of protective devices shall be documented and records kept for the life of the pipeline.

(n) Utilities shall not install or operate a gas regulator that could release gas closer than 3 feet to a source of ignition, an opening into a building, an air intake into a building or any electrical source not intrinsically safe, as follows:

- (1) The 3-foot clearance from a source of ignition shall be measured from the vent or source of release (discharge port), not from the physical location of the meter set assembly; and
- (2) For encroachment within the required 3-foot clearance caused by an action of the property owner or occupant after the initial installation, the encroachment shall be resolved by extending the regulator vent to meet this requirement within 90 days of discovery.

(o) Pipelines shall be laid on continuous bedding consisting of suitable rock free materials or well compacted soil as follows:

- (1) If piping is to be laid in soils which may damage the piping, the piping shall be protected before back-filling is completed;
- (2) Plastic piping shall not be supported by blocking; and
- (3) Well tamped earth or other continuous support shall be used.

(p) Gate stations and district regulating stations that utilize regulator(s) to provide the primary means of overpressure protection shall be designed and installed to incorporate equipment that indicates the station outlet pressure and confirms the proper operation of the regulator(s) as follows:

- (1) Such equipment may include telemetering equipment that communicates with central SCADA systems, local chart or digital pressure recorders or other local indicator;
- (2) When the operator chooses to use a pressure gauge as the separate device to comply with this section, the pressure gauge shall have the capability to record the high pressure, such as a recording chart or tattle-tale needle, but a standard sight gauge shall not be deemed adequate for this purpose; and
- (3) Utilities shall inspect pressure regulating stations monthly to ensure proper operation and to confirm the proper operation of the regulating equipment.

(q) Each customer meter, gas regulating station, or any above-ground gas transporting facility shall be permanently marked to identify the operator's name.

(r) Gas regulating stations and above-ground gas transporting facilities shall be permanently marked to identify the operator's contact information for emergencies.

(s) Marking of facilities under (q) and (r) above shall be accomplished by metal signs, line markers, plastic decals, or other appropriate means.

(t) Each single fed distribution system shall be equipped with telemetering or recording pressure gauge or gauges as may be required to properly indicate the gas pressure in the system at all times, in accordance with the following:

- (1) At least once each year the pressure variation shall be determined throughout each system; and
- (2) Telemetering shall be the sole method used to properly indicate the gas pressure at all times for each single fed distribution system when the following conditions are present:
 - a. The single fed distribution system serves more than 150 customers; or
 - b. The downstream temperature on the outlet side of the pilot operated pressure regulator(s) is predicted to be lower than 32 degrees Fahrenheit and no system pre-heat or regulator pilot heat is installed.

En 506.02 Construction, Operations and Maintenance.

(a) Except as established herein or by municipal regulations that are more stringent than the state or federal requirement, each utility shall construct, install, operate and maintain its plant, structures, equipment and gas pipelines:

- (1) In accordance with all applicable federal and state requirements, including but not limited to the requirements of the "Utilities Accommodation Manual," February 2010 edition, of the New Hampshire state department of transportation adopted by the commissioner pursuant to the powers granted under RSA 228:21, which establishes uniform practice regarding the accommodation of utilities within state highway rights-of-way;
- (2) After weighing all factors, including potential delay, cost and safety issues in such a manner to best accommodate the public, giving particular weight to safety issues that affect the public; and
- (3) To prevent potential interference with service furnished by other utilities including electric, telephone, water, sewer, steam and other underground or above ground facilities.

(b) Pipelines shall be laid at least 12 inches away from any other underground structure unless such clearance cannot be achieved in which case they shall be laid in proximity with other underground structures as is consistent with good engineering practice. Clearances less than 12 inches shall be documented and records kept for the life of the pipeline.

(c) No new pipeline installation shall be made in any non-accessible areas under any building .

(d) Written construction procedures shall include specific provisions for directional drilling and other trenchless technology installation methods that minimize the potential damage to gas pipelines and other underground facilities as listed in (a)(3).

(e) Gas pipelines, including new proposed construction or replacements, that are to be operated at a pressure greater than 60 pounds per square inch gauge shall not be installed under roads, public waters or railroad crossings without notification to the department's enforcement division at least 10 days prior to construction of the crossing and vicinity.

(f) The utility shall avoid any interfering structure which provides a space in which a substantial accumulation of explosive mixture might accumulate in the event of a leak. Preference shall be given to crossing over rather than under such structure but minimum cover requirements shall be maintained. In those

situations where minimum cover cannot be maintained, applicable protective devices such as steel plating or concrete padding shall be installed. Installation of protective devices shall be documented and records kept for the life of the pipeline wherever possible.

(g) Each utility shall design and install all electrical wire fixtures and devices in accordance with the National Electric Code as adopted by RSA 155-A:1, IV.

(h) All meter and regulator station buildings shall be provided with permanent natural draft ventilating devices sufficient to accomplish an average of 5 changes of air per hour.

(i) Each utility shall comply with the requirements for purging pipelines established by the Purging Principles and Practice, 2001 edition, of the American Gas Association.

(j) Within 2 years of a meter being continuously locked or removed, the utility shall disconnect from the main and abandon all gas service lines with the exception of cathodically protected or plastic gas service lines which shall be disconnected from the main and abandoned within 10 years of the meter being continuously locked or removed.

(k) All utilities shall map in their mapping system any main that is abandoned after February 1, 2005.

(l) All utilities shall maintain records of any service line that has been abandoned after February 1, 2005.

(m) All combustible gases transported or distributed by a pipeline shall have a distinctive odor of sufficient intensity so that at a concentration of one-fifth of the applicable lower explosive limit, in accordance with Table 508-1, is readily perceptible to the normal or average olfactory sense of a person coming from fresh, uncontaminated air into a closed room.

(n) Whenever necessary to maintain the level of odorization intensity described in (m) above, a suitable odorant shall be added in accordance with the following specifications:

- (1) The odorant shall be harmless to humans, non-toxic, and shall be non-corrosive to steel, iron, brass, and plastic or any other material used by the utility in handling gas;
- (2) The odorant shall not be soluble in water to an extent greater than 2.5 parts by weight of the odorant to 100 parts by weight of water;
- (3) The products of combustion from the odorant shall be non-toxic to a person breathing air containing these products of combustion and shall not be corrosive or harmful to material which normally would be exposed to such products;
- (4) Equipment for introduction of the odorant into the gas shall be so designed and so built as to avoid wide variation in the level of odor in the gas;
- (5) The equipment and facilities for handling the odorant shall be located where the escape of odorant would not be a nuisance; and
- (6) At least 12 times per calendar year, at intervals not exceeding 45 days, each utility shall sample gas distributed at places downstream of all injection points to assure the presence of odorant in a concentration that is in accordance with (m) above. This testing of samples shall be conducted using equipment manufactured specifically for odorant testing, calibrated per manufacturer's instructions and at locations equivalent to the further points from the source or system extremities of each pressure system. Each utility shall have the capability of promptly injecting odorant if the odorant levels are detected below those of (m) above.

(o) The utility shall provide, upon the request of the department, written verification that the pipeline has been constructed and tested in accordance with all applicable federal and state requirements. Verification documentation shall be maintained for the life of the pipeline segment constructed and tested. A recordable device shall be used for documentation.

(p) The verification required in (o) above shall include, at a minimum, the following information:

- (1) Test pressure;
- (2) Duration of test;
- (3) Test date;
- (4) Type of test, such as hydrostatic/air;
- (5) Normal and maximum operating pressure to which the pipeline will be subjected;
- (6) Material type and fitting type, including specification, tested;
- (7) Individual company performing test; and
- (8) Location of beginning of segment tested and location of end of segment tested.

(q) The utility shall submit to the department a supplemental verification, including figures and maps, as appropriate, whenever:

- (1) Any change of 10% or more is made in the operating pressure; or
- (2) Any change in location is made to the pipeline because of road relocations.

(r) Operating and maintenance procedures and emergency plans shall be documented according to a plan as follows:

- (1) Each utility shall establish a written operating and maintenance plan pursuant to 49 C.F.R. § 192.603 including the criteria set forth in 49 C.F.R. § 192.605;
- (2) Each utility shall establish a written emergency plan pursuant to 49 C.F.R. § 192.615;
- (3) Each utility shall file with the department its plans together with any subsequent amendments;
- (4) Each utility shall operate, inspect and maintain its system in accordance with its plans; and
- (5) Each utility shall inspect any new construction by outside contractors that is or will be incorporated into the utility's system to verify that the resulting installation meets company specifications.

(s) Each utility shall develop and maintain a written security plan outlining actions necessary to protect the utility's facilities from breaches of security or sabotage, and outlining actions to be taken as required by Homeland Security Presidential Directive-3 and any subsequent modifications, pursuant to Public Law 107-56, October 26, 2001, as follows:

- (1) The written security plan shall include preventive measures that address supervisory control and data acquisition (SCADA) systems, control centers and systems, and critical supply locations, as well as cyber security considerations.

- (2) The utility shall permit the department's enforcement division and the commission to review the written security plan on utility premises.
 - (3) The utility shall provide the department with a confidential copy of the security plan upon request.
- (t) Integrity management plans for transmission and distribution systems, public awareness plans, and operator qualification plans, shall be documented as follows:
- (1) Each utility shall establish plans pursuant to 49 C.F.R. § § 192.901, 192.1003, 192.616, 192.801 and En 506.01(c);
 - (2) Each utility shall file with the department its plans together with any subsequent amendments or revisions;
 - (3) Each utility shall design, construct, test, operate, inspect and maintain its system in accordance with its plans; and
 - (4) Integrity management plans shall address any applicable Federal Advisory Bulletins issued by the Pipeline and Hazardous Materials Safety Administration (PHMSA) and any results of failure investigations as required by 49 C.F.R. § 192.617.
- (u) All operator qualification plans shall list all covered tasks and include specific abnormal operating conditions for each task. All operator qualifications covered tasks shall be cross referenced with applicable construction standards or specifications or applicable operation and maintenance activities including emergency response.
- (v) Construction quality assurance plans shall be written, followed and documented as follows:
- (1) Each utility shall inspect any new construction by outside contractors that is or will be incorporated into the utility's system to verify that the resulting installation meets company specifications;
 - (2) A representative number of field verification audits shall be conducted after field work is completed for specific tasks;
 - (3) Performance audits shall be conducted to evaluate a representative sample of various tasks during the actual time that the work is being performed by the employee or contractor;
 - (4) Construction inspections shall be conducted frequently enough to encompass most of the new facility installation and repairs that are done on the utility system;
 - (5) Detailed forms shall incorporate activity checklists prepared to cover normal work activities for evaluation or inspection of specified field work and construction;
 - (6) Audits of employees and crews shall be conducted by management personnel (for example, supervisors, engineers) to ensure that all personnel have reviewed the quality assurance plan and that all construction work is inspected on a regular basis; and
 - (7) Utilities shall take remedial action within 3 months to correct, or make substantial progress toward correction of, any deficiencies indicated by construction quality assurance audit and inspection findings.

(w) Each utility shall take remedial action within 3 months to correct, or make substantial progress toward correction of, any deficiencies indicated by monitoring of cathodically protected pipelines in accordance with 49 C.F.R. Part 192 Subpart I.

En 506.03 On-site Storage.

(a) Unless separately addressed in a utility's integrated resource plan as defined in Puc 508.01(e), and approved by the commission, each utility shall determine its maximum projected design week demand based on the coldest historical consecutive 7-day period, otherwise known as the 7-day design demand, and determine the amount of firm gas supply to be furnished by natural gas pipeline deliveries and on-site storage inventory, if any, necessary to satisfy the 7-day design demand.

(b) In connection with the operation of its peak shaving facilities, each utility shall retain a minimum on-site storage inventory volume for peak-shaving between December 1 and February 14 of each year that is equivalent to the volume of on-site storage inventory deemed necessary to satisfy the 7-day design demand as determined in (a) above.

(c) Railway tank cars on the utility's rail sites shall be considered as on-site storage.

(d) A utility may count as on-site storage 70% of the guaranteed daily delivery capability over a 5-day period from a firm bulk fuel supply point or off-site storage facility for any situation in which the utility:

- (1) Owns or leases tank trucks;
- (2) Has a firm fuel supply purchase contract; or
- (3) Has a dedicated supply and delivery service contract.

(e) As of February 15 of each year, the above minimum on-site storage inventory volume may be reduced to 75% of the December 1 requirement above.

(f) As of March 1 of each year, the above minimum on-site storage inventory volume may be reduced to 50% of the December 1 requirement above.

(g) Each utility shall notify the department's enforcement division each week during the period from December 1 through April 1 of its on-site storage inventory levels.

(h) The information required by (d) and (e) above shall be submitted by electronic mail or through the department's electronic report filing system (ERF) on each Tuesday, or the next day following a state holiday.

PART En 507 RECORDS AND REPORTS

En 507.01 Records in General. All records shall be organized, arranged or prepared to ensure that sufficient data is available to determine the status of compliance with these rules. Records pertaining to the system design or that are necessary for future evaluation of the system's safety shall be retained for the life of the facility involved.

En 507.02 Station Records. Each utility shall keep records of the operation of its plant to show the characteristics and performance of each unit.

En 507.03 Gas Supply Measurement.

(a) Each utility shall install a suitable measuring device at each source of supply in order that a record may be maintained of the quantity produced.

(b) Unless sufficient information is furnished by the utility supplying the gas, each utility purchasing gas shall maintain adequate instruments and meters to obtain complete information as to such purchases.

(c) The utility shall:

- (1) Determine on a daily basis the quantity of gas supply produced or purchased and received from each source of supply; and
- (2) Summarize those quantities each month.

(d) The utility shall record and transmit to the department its 12 month totals of gas supply purchased, produced, and received as part of its annual report pursuant to En 509.02.

En 507.04 System Maps. Each utility shall have on file at its principal office located within the state a map, maps or drawings showing the following:

(a) Size, character and location of its active mains, and its abandoned mains if abandoned after February 1, 2005, including valves;

(b) Size and location of each of its active service lines, and its abandoned service lines if abandoned after February 1, 2005, where practicable, provided that in lieu of showing service locations on maps, a card record or other suitable means may be used; and

(c) Layout of all principal metering and regulator stations and production plants to show size, location and character of all major equipment, pipe lines, connections, valves and other equipment used.

En 507.05 Meter Records.

(a) Each utility shall keep numerically arranged and classified records providing the following information for each meter owned and used by the utility for any purpose:

- (1) Identification number;
- (2) Date of purchase;
- (3) Name of manufacturer, serial number, type and rating; and
- (4) Information on each customer on whose premises the meter has been in service, including:
 - a. Name and address; and
 - b. Date of installation and removal.

(b) The records required by (a) above shall be maintained in a manner such that the date of the last test is readily ascertainable.

En 507.06 Reports to Department.

(a) The utility shall furnish to the department the results of any required tests and summaries of any required records pursuant to RSA 374:15.

(b) The utility shall also furnish the department with any information concerning the utility's facilities or operations relating to determining rates or judging the practices of the utility pursuant to RSA 378:1.

(c) Each utility shall file periodic reports as provided in En 509.

PART En 508 SAFETY, ACCIDENT AND LEAKAGE REQUIREMENTS

En 508.01 Safety Practices.

(a) Each utility shall adopt comprehensive instructions for the safety of employees in the operation, construction or maintenance of its plant and facilities.

(b) Each utility shall institute practices and programs to ensure that its employees have been properly trained in safe practices and are cognizant of all hazards involved.

(c) The instructions, practices and programs referred to in (a) and (b) above shall comply with the requirements of 49 C.F.R. § 192.605.

En 508.02 Resuscitation.

(a) Each utility periodically shall instruct its employees engaged in electrical work, including but not limited to those employees who work on all live electric conductors and equipment, in safety procedures for resuscitation from electrical shock.

(b) The utility shall instruct all employees engaged in work on gas mains or equipment in procedures to be followed in cases involving asphyxiation or gas poisoning.

(c) The utility shall furnish copies of the relevant safety procedures to each such employee.

En 508.03 Accidents.

(a) Each utility shall notify the department of any accident, as described in En 504.05(a), pursuant to En 504.05.

(b) A utility shall submit a written report on Form E-5 "Utility Accident Report," pursuant to En 509.05, within 10 working days following the occurrence of any accident involving a release of gas from a pipeline, a release of LNG or LPG, or a release of gas from a LNG or LPG facility in which:

- (1) Any person has been killed;
- (2) Any person has received an injury which requires same day professional medical treatment;
- (3) Any person has received an injury which incapacitates that person from active work for a total of 6 days or more during the 10 days immediately following the accident; or
- (4) Any property damage over \$5,000 in amount has been caused.

(c) If any event later occurs in connection with an accident which renders an accident reportable under this section or results in an additional reportable occurrence listed in (b)(1) through (4) associated with a report previously submitted, the utility shall submit a new or updated report, as appropriate.

(d) A utility shall submit concurrently to the department a copy of any written accident or incident report submitted to the federal government.

En 508.04 Leakage Surveys and Inspections.

(a) For purposes of this section, "business districts" means the principle business areas in the urban portion of a community.

(b) The presence of certain factors shall indicate the presence of a business district, as follows:

- (1) The general public regularly congregates in this area for economic, industrial, religious, educational, health or recreational purposes;
 - (2) The majority of the buildings on either side of the street are utilized for commercial, industrial, religious, educational, health or recreational purposes;
 - (3) Gas facilities are under continuous paving that extends either from the center line of the thoroughfare to the building wall or from the gas main to the building wall; and
 - (4) Other locations or sites in the urban portion of a community which contain a similar density and/or mix of buildings and services as provided in (1) through (3) above.
- (c) Each utility shall survey distribution mains in business districts on an annual basis.
- (d) Each utility shall conduct a leakage survey of cast iron main lines in business districts on a repeated basis during the months when frost is in the ground, but not in conjunction with the survey referred to in (c) above.
- (e) Each utility shall conduct a leakage survey of all unprotected steel services at least once during each 3-year period and of all protected steel and plastic pipe at least once during each 5-year period.
- (f) Each utility shall inspect gas mains once each calendar year in locations or on structures where known physical movement or external loading could cause failure or leakage and shall patrol such locations at least 3 times each calendar year.
- (g) A gas detector survey of buildings used for public assembly, including schools, churches, hospitals, theaters, municipal buildings and downtown areas shall be conducted each year during the period March 1 to December 1.
- (h) In completing a gas detector survey of buildings used for public assembly, as referred to in (g) above, a utility shall:
- (1) Test areas around service entrances, inside the foundation wall, at conduit or cable entrances below grade and at cracks or breaks in the foundation wall where gas seepage might enter the basement; and
 - (2) Test exposed piping from the service entrance to the outlet side of the meter.
- (i) If, when investigating a leak, it is determined that the perimeter of a leak area extends to a building wall, the investigation shall continue into the building unless public safety or identifiable exigent circumstances prohibit entry.
- (j) Once public safety or identifiable exigent circumstances no longer prohibit entry, the investigation, as provided in (i) above, shall continue into the building, if the leak has not yet been resolved.
- (k) The utility shall establish a leak repair priority based on its evaluation of the location and the magnitude of a leak.
- (l) The applicable lower explosive limits (LELs) shall be determined according to Table 508-1 below:

| TABLE 508-1 Utility Lower Explosive Limits & Equivalent Percent Gas/Air Ratios | | |
|--|-----------------------|-------------------|
| % LEL | Natural Gas % gas/air | Propane % gas/air |
| 10 | 0.5% | 0.2% |
| 20 | 1.0% | 0.4% |
| 30 | 1.5% | 0.6% |
| 40 | 2% | 0.8% |
| 60 | 3% | 1.2% |
| 80 | 4% | 1.6% |
| 100 | 5% | 2% |

(m) A utility shall assign a classification of leaks as follows:

(1) A Class I leak shall be a leak that represents an existing or probable hazard to persons or property, and requires immediate repair within 24 hours or continuous action until the conditions are no longer hazardous, consistent with the following:

a. A Class I leak shall include but not be limited to:

- 1 Any leak which, in the judgment of operating personnel at the scene, is regarded as an immediate hazard;
- 2 Escaping gas that has ignited unintentionally;
3. Any indication of gas, which has migrated into or under a building, or into a tunnel;
4. Any reading within five feet of the outside wall of a building, or where gas would likely migrate to an outside wall of a building;
5. Any reading of 40% LEL or greater in accordance with Table 508-1, in an enclosed space including but not limited to manholes, vaults, and catch basins;
6. Any leak that can be seen, heard, or felt, and which is in a location that may endanger the general public or property; and
7. Any leak in a small substructure, which shall include but not be limited to conduits, pipes, pedestals and other small enclosures, when a sustained combustible gas indicator reading of 70% LEL or greater in accordance with Table 508-1 is measured.

b. In the event of a Class I leak, the utility shall take action immediately to eliminate the hazard and make repairs, including, as necessary, one or more of the following actions:

1. Implementation of an emergency plan;
2. Evacuation of premises;
3. Blocking off an area;
4. Rerouting traffic;
5. Elimination of sources of ignition;

6. Venting the area by removing manhole covers, barholing, installing vent holes, or other means;
7. Stopping the flow of gas by closing valves or other means; or
8. Notification to emergency responders.

(2) A Class II leak shall be a leak that is recognized as being non-hazardous at the time of detection, but requires scheduled repair within 6 months or before the end of the calendar year based on probable future hazard of any degree, evaluated as follows:

- a. When evaluating Class II leaks, each operator shall consider criteria such as the following:
 1. The amount and migration of gas;
 2. The proximity of gas to buildings and subsurface structures;
 3. The extent of pavement, including wall-to-wall paving that includes areas covered in gravel or grass; and
 4. Soil type and conditions, such as frost cap, moisture, and natural venting.
- b. A leak shall be considered a Class II leak when a sustained combustible gas indicator reading of 40% LEL or greater in accordance with Table 508-1 is measured under a sidewalk in a wall-to-wall paved area that does not qualify as a Class I leak;
- c. A leak shall be considered a Class II leak when a sustained combustible gas indicator reading of 100% LEL or greater in accordance with Table 508-1, is measured under a street in a wall-to-wall paved area that has significant gas migration and does not qualify as a Class I leak;
- d. A leak shall be considered a Class II leak when a sustained combustible gas indicator reading of less than 70% LEL in accordance with Table 508-1 is measured in small substructures. A small substructure shall include but not be limited to conduits, pipes, pedestals and other small enclosures;
- e. A leak shall be considered a Class II leak when a sustained combustible gas indicator reading less than 40% LEL in accordance with Table 508-1 is measured in a confined space including but not limited to manholes, vaults, and catch basins;
- f. A leak shall be considered a Class II leak when a sustained combustible gas indicator reading is measured on a pipeline operating at 30 percent specified minimum yield strength (SMYS), or greater, in a class 3 or 4 location, as defined in 49 C.F.R. § 192.5, which does not qualify as a Class I leak;
- g. A leak shall be considered a Class II leak when, in the judgment of operating personnel at the scene, it is of sufficient magnitude to justify scheduled repair;
- h. All Class II leaks shall be rechecked at intervals no greater than every 60 days during the months of April through, and including, December; and no greater than every 30 days during the months of January through, and including, March; and
- i. Each utility shall take action ahead of ground freezing or other adverse changes in venting conditions with respect to any leak which, under frozen or other adverse soil conditions, would likely allow gas to migrate to the outside wall of a building.

(3) A Class III leak shall be a leak that is non-hazardous at the time of detection and can be reasonably expected to remain non-hazardous, as evaluated in accordance with the following:

a. Each utility shall survey and re-evaluate each Class III leak no less than once per calendar year, but at least one re-evaluation of each Class III leak shall be performed between September 1 and December 15 each calendar year until the leak is repaired;

b. A leak shall be considered a Class III leak when a sustained combustible gas indicator reading less than 40% LEL in accordance with Table 508-1 is measured under a street or sidewalk in areas without wall-to-wall paving where it is unlikely the gas could migrate to the outside wall of a building. Wall-to-wall paving shall include areas covered in gravel or grass, in accordance with (m)(2) above;

c. A leak shall be considered a Class III leak when a sustained combustible gas indicator reading of less than 100% LEL in accordance with Table 508-1, is measured under a street in a wall-to-wall paved area that does not have significant gas migration and does not qualify as a Class II leak. Wall-to-wall paving shall include areas covered in gravel or grass, in accordance with (m)(2) above; and

d. Any leak that does not classify as a Class I or Class II leak shall be considered a Class III leak.

(n) A utility shall conduct a follow-up inspection as follows:

(1) The adequacy of leak repairs shall be checked before backfilling;

(2) The perimeter of the leak area shall be checked with a combustible gas indicator (CGI) or equivalent gas detection equipment; and

(3) Where there is residual gas in the ground after the repair of a Class I leak, the utility shall conduct a follow-up inspection as soon as practical after allowing the soil atmosphere to vent and stabilize, but in no case later than one month following the repair.

(o) In the case of leak repairs other than Class I, the need for a follow-up inspection shall be determined by qualified personnel of the utility.

(p) In any calendar year, a utility shall not reclassify from Class II to Class III more than six total leaks or 5% of all outstanding leaks in a given class, whichever is less.

En 508.05 Leakage Record-Keeping and Reporting.

(a) Each utility shall maintain records and follow self-audit procedures regarding gas leaks and leakage surveys as follows:

(1) A utility shall preserve historical gas leak records in accordance with En 507.05(a) and Puc 506.06;

(2) In order to demonstrate the adequacy of company maintenance programs, a utility shall maintain sufficient data to provide the information needed to complete the federal Department of Transportation leak report forms as follows:

a. Form PHMSA F 7100.1, "Incident Report - Gas Distribution System";

b. Form PHMSA F 7100.1-1, "Annual Report For Calendar Year 20__ - Gas Distribution System";

c. Form PHMSA F 7100.2, "Incident Report – Natural and Other Gas Transmission and Gathering Systems"; and

d. Form PHMSA F 7100.2-1, "Annual Report For Calendar Year 20__ - Natural and Other Gas Transmission and Gathering Pipeline Systems"; and

(3) The utility shall maintain records for leaks which are reported by an outside source or require reporting to a regulatory agency.

(b) The leak records as required in (a) above shall not be required to be maintained in any specific format or retained at one location.

(c) The leak records as required in (a) above shall include the following:

(1) Date discovered, time reported, time dispatched, time investigated and by whom;

(2) Date(s) re-evaluated before repair and by whom;

(3) Date repaired, time repaired and by whom;

(4) Date(s) rechecked after repair and by whom;

(5) If a reportable leak, date and time of telephone report to regulatory authority and by whom;

(6) Location of leak;

(7) Leak classification;

(8) Line use, including distribution and transmission;

(9) Method of leak detection including name and address if reported by an outside party; and

(10) A description of any environmental impact, if applicable.

(d) A utility shall report to the department leaks occurring in its gas distribution system as follows:

(1) Emergency notification, pursuant to En 504.05(a); and

(2) Report on status of leaks, pursuant to En 509.11.

PART En 509 FORMS REQUIRED TO BE FILED

En 509.01 F-1G – Rate of Return.

(a) Natural gas utilities shall file with the department and the commission Form F-1G on a quarterly basis reporting the historical weather normalized rate of return for the preceding 12 months. For purposes of this part, "natural gas utility" means any utility that receives direct deliveries through a natural gas interstate pipeline.

(b) Natural gas utilities shall include on Form F-1G the following components:

(1) The name of the utility filing the report;

(2) Operating revenues for 12 months;

- (3) Weather normalization;
- (4) Operating expenses for 12 months, including:
 - a. Gas costs;
 - b. Other production;
 - c. Distribution;
 - d. Customer accounting;
 - e. Sales and new business;
 - f. General and administrative;
 - g. Federal and state income taxes;
 - h. Property taxes;
 - i. Other taxes;
 - j. Depreciation;
 - k. Amortization;
 - l. Operating rent; and
 - m. Interest on customer deposits.
- (5) Rate base components for:
 - a. New Hampshire plant;
 - b. Material and supplies;
 - c. Cash working capital requirement;
 - d. Prepayments;
 - e. Customer deposits;
 - f. Accrued interest customer deposits;
 - g. Depreciation reserve;
 - h. Deferred income taxes;
 - i. Reimbursable contributions; and
 - j. Any other item properly includible in the utility's rate base.
- (6) Weighted cost of capital components for:
 - a. Current capital structure;
 - b. Cost of debt; and
 - c. Last commission approved cost of equity.

- (7) Operating utility income for 12 months;
- (8) Allowed operating utility income using weighted cost of capital;
- (9) Actual return on rate base;
- (10) Allowed return on rate base; and
- (11) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

(c) The rate of return calculation shall exclude merger push-down accounting unless such accounting treatment has explicit commission approval.

(d) Utilities shall file Form F-1G no later than 45 days from the end of each fiscal quarter.

En 509.02 F-16G Annual Report for Gas Utilities.

(a) Each utility which maintains its books on a calendar year basis shall file the "Annual Report for Gas Utilities" Form F-16G available on the department's website at www.energy.nh.gov, and file with the department and the commission one signed original and one electronic copy by email or through the department's or the commission's electronic records filing system annually on or before March 31st.

(b) Each utility which maintains its books on a fiscal year which does not coincide with a calendar year shall file Form F-16G with the department and the commission one signed original and one electronic copy by email or through the department's or the commission's electronic records filing system no later than 90 days following the close of each fiscal year.

En 509.03 F-8G Monthly Operating and Income Statements.

(a) Each utility shall file twice a year Form F-8G, which shall include an analysis of gas operating statistics of usage, sales and revenue data, with the department and the commission within 90 days of the 6-month periods ending April 30th and October 31st and shall file revised Form F-8G monthly reports when previously submitted reports have been updated, edited or corrected.

(b) Utilities shall include on Form F-8G the following:

- (1) A caption identifying the name of the utility filing the report;
- (2) Monthly income statement showing current month, cumulative this year, same month last year and cumulative last year;
- (3) A gas purchased, produced and transported report showing all natural gas purchases distinguishing gross received or net delivered, storage gas injections, storage gas withdrawals, pipeline fuel retention, if gross received purchases are used, propane air produced, vaporized LNG produced, gas received and transported for other parties or other gas supply and totals for each category;
- (4) A statement of the disposition of all gas purchased, produced and transported including total gas sold, gas used by the company, accounted for losses, unaccounted for losses, gas transported by third parties for unbundled customers and total disposition;
- (5) A degree day summary that identifies data source and geographic location, and includes effective or actual and normal degree days for the month, cumulative for the year, for the same month the previous year, and cumulative for the previous year;

- (6) The actual number of customer bills generated, by rate class, for the current month and for the same month for the previous year;
- (7) Analysis of operating revenues that compares revenue earned from bundled gas sales and unbundled gas transportation for each rate class for the month, cumulative for the year, for the same month the previous year, and cumulative for the previous year;
- (8) Analysis of sales and transportation terms that compares bundled gas sales and unbundled gas transportation billed in terms for each rate class for the month, cumulative for the year, for the same month the previous year, and cumulative for the previous year;
- (9) The date of the original report, or, if applicable, the revised report; and
- (10) The signature, full name and title of the individual signing the report, and date of signature.

En 509.04 F-22 Information Sheet.

- (a) Each utility shall file Form F-22 with the department and the commission:
 - (1) Annually; and
 - (2) Whenever any changes occur to the information included in the Form F-22 filing.
- (b) Each utility shall include the following on Form F-22:
 - (1) The name of the utility filing the report;
 - (2) Person's name, title, and e-mail address to receive the annual report form;
 - (3) Person's name, title, and e-mail address to receive the utility assessment tax;
 - (4) The names and titles of the principal officers of the company; and
 - (5) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.05 E-5G Utility Accident Report.

- (a) Each utility shall file Form E-5G "Utility Accident Report" with the department and the commission within 10 working days of when a utility accident, as described in En 508.03(b), occurs, and as required in En 508.03(c).
- (b) Each utility shall include the following on Form E-5G:
 - (1) The current, date and name and address of utility;
 - (2) Date, time of discovery, and location of accident;
 - (3) Description of any person injured including:
 - a. Name;
 - b. Age;
 - c. Residence;

- d. Employer; and
 - e. Status of any injured person, whether employee, person under contract, invitee, licensee, trespasser or other;
- (4) Description of injury, current condition, duration of disability and, if applicable, anticipated return to work date;
 - (5) Description of cause and manner of accident;
 - (6) If applicable, cause of death and previous related accident report number;
 - (7) Designation of federal or state statute violated, if applicable;
 - (8) Estimated amount of property damage and breakdown of property damage amounts;
 - (9) Method of discovery of the accident;
 - (10) Estimated amount of gas released measured in terms of 1,000 cubic feet (mcf) and value of gas released, including calculations;
 - (11) Time operator or contractor acting on behalf of operator arrived on scene;
 - (12) Time operator made pipeline safe;
 - (13) Date and time final restoration and return to gas service was completed;
 - (14) Quantity of people evacuated and quantity of meters shut off or service interrupted;
 - (15) Description of the pipeline facility involved (age, material type, diameter, location, classification, above ground, below ground, depth, pressure at time of accident, map of pipeline);
 - (16) Date and time of notification to the National Response Center, if required;
 - (17) Recommendation for and steps taken to guard against repetition of accident; and
 - (18) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.06 E-6 Heating Value and Purity Report.

- (a) Each utility shall file with the department Form E-6 monthly.
- (b) Utilities shall include on Form E-6:
 - (1) The name of the utility filing the report;
 - (2) The month average in British thermal units (BTUs) with a breakdown for each day of the month, showing derivation based on location of each measurement, BTU measurement and associated volume, and, where applicable, days when peak shaving equipment is used;
 - (3) BTUs per cubic foot;
 - (4) Measurements for hydrogen sulphide and sulphur, if applicable;
 - (5) General remarks; and

(6) The signature, full name and title of the employee who supervised the preparation of the report, and date of signature.

En 509.07 E-7 Annual Report of Gas Meter Tests.

(a) Each utility shall file Form E-7, “Annual Report of Gas Meter Tests,” annually by March 15 with the department.

(b) Utilities shall include the following on Form E-7:

- (1) The name of company and year represented by the report;
- (2) The number of meters tested categorized according to meter class, in accordance with Table 505-1;
- (3) The total meters in service per category at end of year and total meters per category tested during the reporting year;
- (4) Accuracy rate per group tested, required accuracy in accordance with Table 505-2 and quantity of meters to be tested per category for the following year;
- (5) The total meters in service at end of year and total meters tested during the reporting year; and
- (6) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.08 E-8 Report of Pressure Complaints.

(a) Each utility shall file a monthly report of pressure complaints on Form E-8 with the department.

(b) Utilities shall include the following on Form E-8:

- (1) The name of the utility filing the report;
- (2) The name of each complainant and location which gave rise to the complaint;
- (3) The date the utility conducted a meter test;
- (4) The average pressure of the tested meter;
- (5) The pressure recorded in inches of water column showing minimum with time of day and maximum with time of day;
- (6) The total minutes pressure was below allowable minimum and above allowable maximum; and
- (7) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.09 E-23 Report of Interruptions of Service.

(a) Each utility shall file Form E-23 with the department to report any interruption of service within one month of the occurrence of such interruption.

(b) Utilities shall include the following on Form E-23:

- (1) The name of the utility filing the report;

- (2) The dates of service interruption;
- (3) The time of service interruption including start, end and total elapsed time;
- (4) The location of service interruption;
- (5) The number of customers affected by service interruption;
- (6) The cause of interruption; and
- (7) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.10 E-24 Report of Gas Meter Complaint Tests.

- (a) Each utility shall file monthly with the department Form E-24 "Report of Gas Meter Complaint Tests."
- (b) Form E-24 shall include the following:
 - (1) The name of the utility filing the report;
 - (2) The name and address of the customer making the complaint;
 - (3) The meter manufacturer; manufacturer's number; company number; type and size of meter;
 - (4) The percent registrations which are fast or slow;
 - (5) The period of refund or collection; and
 - (6) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.11 Status of Leaks.

- (a) Each utility shall submit to the department a monthly leak report.
- (b) Each utility shall provide on the monthly leak report a description of the status of any leak in its system classified by type of leak as Class I, II or III.
- (c) The report shall include a caption identifying the report as "Monthly Leak Report" along with the name of the company filing the report.
- (d) A utility shall identify and describe the status of leaks as follows:
 - (1) As of the beginning of each month;
 - (2) Those reported during the month;
 - (3) Those repaired during the month; and
 - (4) Those reported and awaiting repair at the end of the month.
- (e) Additionally, for those leaks reported during the month, the utility shall provide:
 - (1) The leak address;
 - (2) The date leak was reported;

- (3) The identification number of the leak;
- (4) The leak area, whether rural, residential, or urban;
- (5) The classification of the leak;
- (6) Method of how the company became aware of leak, such as through the public, an employee, or winter patrol;
- (7) Type of cover over leak, such as asphalt or concrete;
- (8) The pipeline facility, such as main or service;
- (9) The operating pressure, whether low, intermediate, or high; and
- (10) The most likely material(s) involved in any suspected Class III leaks.

(f) For those leaks repaired pursuant to (d)(3) above, the cause of the leak shall be reported in a consistent classification as identified according to 49 C.F.R. § 191.11 and leaks classified as "other" shall be clearly explained.

(g) The report shall include the signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.12 Annual Peak Shaving Fuel Storage Capability Report.

(a) Each utility with either LNG vaporization, propane air vaporization and mixing, or both, used as primary or supplemental on-system gas supply and fuel storage in its New Hampshire gas distribution operations shall file electronically with the department by e-mail or through the department's electronic records filing system once annually a peak shaving fuel storage capability report.

(b) This report shall be submitted by October 1st of each year and shall include projected design-week sendout, production capabilities and storage requirements of utility gas operations, including the following:

- (1) A caption identifying the report as the "Annual Peak Shaving Fuel Storage Capability Report" along with the name of the utility filing the report;
- (2) Projected design week demand determined using verifiable total degree day data collected from an identified New Hampshire location for the seven coldest consecutive days in the past 30 years of historical degree day data;
- (3) Amount to be furnished by natural gas pipeline;
- (4) Balance from peak shaving;
- (5) Equivalent gallons LNG or LPG needed to satisfy requirements of (4) above;
- (6) Total storage facilities committed, in gallons, to service on December 1 of the current year to LPG and LNG, which shall be categorized as follows:
 - a. Permanent;
 - b. Railroad tank cars;
 - c. Truck tankers;

- d. Other storage, specifying type; and
 - e. Total storage;
- (7) Whether the facility meets storage requirements;
 - (8) Comments relative to suppliers' delivery capabilities during the upcoming winter period;
 - (9) A statement that the utility shall immediately advise the department of any unexpected circumstances which may arise surrounding its peak shaving capabilities; and
 - (10) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.13 Weekly Gas Storage Report.

- (a) Each utility shall submit to the department's enforcement division weekly reports on gas storage level during the period December 1 through April 1 on Tuesday of each week, or the day following if Tuesday is a state holiday, before 4:00 p.m.
- (b) The utility may by telephonic facsimile or e-mail report information on storage levels.
- (c) The report shall include a caption identifying the report as "Weekly Gas Storage Report" along with the name of the utility filing the report and the full name and title of the utility employee who supervised the preparation of the report.

En 509.14 Weekly Portable LNG Vaporizer Activity Report.

- (a) Each utility shall submit to the department's enforcement division weekly reports on portable LNG vaporizer utilization when a portable LNG vaporizer is connected to the gas utility distribution system.
- (b) The report shall be filed on Tuesday of each week before 4:00 p.m., or the day after if Tuesday is a state or federal holiday.
- (c) The report shall contain the following information:
 - (1) A caption identifying the report as "Weekly Portable LNG Vaporizer Activity Report" along with the name of the utility filing the report;
 - (2) The date of the report;
 - (3) The location and maximum rated output of the portable vaporizer;
 - (4) The reason for connecting the portable vaporizer;
 - (5) The daily volume injected from the portable vaporizer; and
 - (6) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.15 Summary of Peak Day Report.

- (a) Each utility shall file a report with the department through the department's electronic records filing system annually on April 1st summarizing the previous winter period peak day operating statistics.
- (b) Quantities of gas shall be reported as measured in therms.

(c) The report shall contain the following information:

- (1) A caption identifying the report as "Summary of Peak Day Report" along with the name of the utility filing the report;
- (2) The gas demand for firm sales, interruptible sales, firm transportation, interruptible transportation and any other sendout;
- (3) The gas demand for non-daily metered interruptible transportation rate classes based on an estimate of the daily supply nomination requirements, or best estimate;
- (4) The gas supply of purchased pipeline natural gas, underground storage gas, propane air production gas, LNG produced gas, third party gas transported for unbundled transportation customers, and any other gas supply used to meet peak day demand;
- (5) The actual or effective base 65 degrees Fahrenheit degree day total measured on that day including the source and geographic location;
- (6) The date and day of the week of the peak day occurrence;
- (7) A statement as to whether the peak day sendout was a new record for the utility; and
- (8) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.16 Forecast of Upcoming Winter Period Design Day Report.

(a) Each utility shall file with the department annually by email or through the department's electronic records filing system on September 15 a report summarizing the upcoming winter period design day forecast of operating statistics.

(b) Quantities of gas shall be reported as measured in therms.

(c) The report shall include the following information:

- (1) A caption identifying the report as "Forecast of Upcoming Winter Period" along with the name of the utility filing the report;
- (2) The demand for firm sales, interruptible sales, firm transportation, interruptible transportation and any other sendout demand;
- (3) The supply of purchased pipeline natural gas, underground storage gas, propane air production gas, LNG produced gas, third party gas transported for unbundled transportation customers, and any other gas supply available to meet design day demand;
- (4) The base 65 degrees Fahrenheit degree day estimate total used in the forecast design day;
- (5) A brief explanation of forecast tools, models and assumptions used in determining design day send out requirements; and
- (6) The signature, full name and title of the utility employee who supervised the preparation of the report, and date of signature.

En 509.17 Federal Reports Filed with Department. The owner or operator of a natural gas pipeline facility regulated by the Federal Energy Regulatory Commission pursuant to the Natural Gas Act, 15 U.S.C. §

717, et seq., shall, with respect to any such pipeline facility located or to be located in New Hampshire, file with the department:

(a) Annually, on or before April 30 of each year, a copy of the signed original of the Federal Energy Regulatory Commission annual report form, Form No. 2, pertaining to such facility; and

(b) Concurrently upon its filing with the Federal Energy Regulatory Commission, a copy of any application for a certification of public convenience and necessity under the Natural Gas Act, 15 U.S.C. § 717f(c), with respect to any pipeline facility of such owner or operator proposed to be located in New Hampshire.

En 509.18 Monthly Customer Migration Report.

(a) Each utility offering unbundled transportation service shall file electronically with the department and the commission a monthly report after the final accounting is available that provides in a PDF file format a rolling 12 months of the most recent available transportation customer data, including the following:

- (1) A caption identifying the report as “Monthly Customer Migration Report” along with the name of the utility filing the report;
- (2) The month and year of the report, which will coincide with the most recent month of actual data included in the report;
- (3) The actual number of customer bills per month sorted by rate class, for capacity assigned and also for capacity exempt customer subgroups;
- (4) The actual number of therms billed per month, sorted by rate class, for capacity assigned and also for capacity exempt customer subgroups; and
- (5) A table identifying each competitive natural gas supplier and the number of customers served by each.

(b) The master file for this report shall retain all months of historical customer migration data, be maintained in a spreadsheet file format, and be made available to department or commission upon request.

PART En 510 ENFORCEMENT PROCEDURES FOR GAS PIPELINE UTILITIES

En 510.01 Jurisdiction Scope and Application of Authority.

(a) Pursuant to RSA 370:2 the department shall enforce safety standards and practices for utilities, referred to in En 506.01, consistent with the Natural Gas Pipeline Safety Act which is set forth at 49 U.S.C. § 60101, et seq.

(b) In enforcing safety standards and practices the department shall consider:

- (1) Pipeline safety data;
- (2) The appropriateness and reasonableness of a safety standard applied to a particular incident or circumstances; and
- (3) Other relevant information regarding the circumstances of an incident.

(c) The department in exercising and implementing its inspection and enforcement authority pursuant to En 510 shall act by and through the department’s enforcement division.

(d) Pursuant to RSA 365:8 and RSA 370:2, and consistent with the Natural Gas Pipeline Safety Act, the department shall:

- (1) Investigate all methods and practices of utilities relating to pipeline safety;
- (2) Require the maintenance and filing of reports, records and other information relating to pipeline safety in such form and detail as the department shall prescribe;
- (3) Enter at all reasonable times to inspect the property, building, plants and offices of utilities to investigate and determine compliance with pipeline safety requirements; and
- (4) Inspect all books, records, papers and documents relevant to the pipeline safety.

(e) Each utility shall cooperate fully with the department in its investigations and inspections pursuant to En 510, including maintaining and providing all relevant information and data and providing such access as the department shall require.

En 510.02 Intervals of Inspection.

(a) Each utility shall allow the department staff, upon presentation of identifying credentials, to enter upon, inspect, and examine the records and properties of persons to the extent such records and properties are relevant to determining the compliance of such persons with department rules or orders, or the commission rules or orders.

(b) Each utility shall permit the department to conduct inspections in response to or related to any of the following:

- (1) Routine scheduling;
- (2) A complaint received from a member of the public or any party;
- (3) Information obtained from a previous inspection;
- (4) Pipeline accident or incident; and
- (5) Compliance with En 500.

(c) The department shall schedule and conduct inspections if:

- (1) Results obtained in an initial inspection show a defect, irregularity or non-compliance which establishes the need for a subsequent or follow-up inspection; or
- (2) The department determines that additional inspections are required to provide sufficient information to allow it to determine utility compliance with department rules or orders, or commission rules or orders.

En 510.03 Inspection of Utilities.

(a) Inspections conducted pursuant to En 510.02 shall include a thorough review of the utility's records concerning inspection, operation, maintenance, and emergency procedures.

(b) Field inspections combined with office inspections shall cover:

- (1) Operational checks of corrosion control provisions;
- (2) Overpressure and regulating equipment;

- (3) Odorization;
- (4) Repaired leaks;
- (5) Emergency valves;
- (6) New construction;
- (7) Maintenance of facilities;
- (8) Selection of material and design of components;
- (9) Qualifications and training of personnel;
- (10) Public awareness programs, emergency response programs, quality assurance programs, underground damage prevention programs, and integrity management programs for transmission and distribution pipeline facilities;
- (11) Control room management; and
- (12) Any other components of the facility.

En 510.04 Verbal Notice to Utility of Probable Violation.

(a) When an evaluation of a utility's records and facilities indicates that the utility is apparently not in compliance with a pipeline safety regulation, the department investigator shall informally discuss the probable violation or noncompliance with the utility before concluding the inspection.

(b) In situations where an inspection is performed without utility personnel on site, probable violations or potential non-compliance of En 500 shall be communicated to the utility upon completion of the inspection.

(c) The utility shall provide any documentation or physical evidence related to the alleged non-compliance which the department investigator shall request during the inspection or by letter.

(d) The utility may notify the department investigator and undertake on-site corrective action of the facility where the probable violation exists, thus correcting any identified deficiency.

En 510.05 Written Formal Notice of Probable Violation.

(a) After the department staff receives evidence of a possible violation, the department shall issue a written notice of probable violation (NOPV) to the party alleged to have committed the violation.

(b) The department staff shall send information regarding the NOPV by certified mail to the party alleged to have committed the violation.

(c) The NOPV shall include the following:

- (1) A description of the probable violation and reference to the rule or statute regarded as violated;
- (2) The date and location of the probable violation;
- (3) A statement notifying the party or parties involved that civil penalties might be imposed pursuant to RSA 374:7-a, in the event of unfavorable judgment;
- (4) The amount of the civil penalty;

- (5) A description of factors relied upon by department staff in making its determination, such as the size of the business of the utility, gravity of the violation, history of prior violations, degree of culpability of the respondent, how quickly the respondent took action to rectify the situation, cooperativeness of respondent, history of prior violations, effect of penalty on the utility, and any other identifiable factors which would tend to either aggravate or mitigate the violation;
 - (6) Statutory rights of the respondent as enumerated in RSA 374:7-a; and
 - (7) Procedures for resolving the complaint.
- (d) The operator shall respond in writing to the department within 30 days of its receipt of the violation notice referred to in (a) above.

En 510.06 Responses to Notice of Probable Violation.

- (a) Upon receipt of the NOPV the respondent shall:
- (1) Submit to the department within 30 days, in writing, evidence refuting the probable violation referenced in the NOPV;
 - (2) Submit to the department within 30 days a written plan of action outlining action the respondent will take to correct the violations, including a schedule and the date when compliance is anticipated;
 - (3) Execute a consent agreement with the department resolving the probable violation and remit the civil penalty; or
 - (4) Request in writing within 30 days, an informal conference with the department staff to examine the basis of the probable violation.
- (b) Any utility involved in the NOPV shall provide a representative for any informal conference or hearing scheduled relative to that NOPV.

En 510.07 Informal Conferences.

- (a) After receiving the request for the informal conference, the department staff shall:
- (1) Arrange a date, time, and location for the informal conference; and
 - (2) Notify the respondent by certified mail of the date, time, and location of said informal conference.
- (b) At the informal conference, the department staff shall review the basis for the violation(s). The utility may explain its position and may present alternatives for solution of the problem.

(c) If the utility and the department staff cannot by agreement resolve the violation at this stage, the enforcement procedure shall continue as described in En 510.08.

En 510.08 Notice of Violation.

- (a) If the department staff, after reviewing evidence and testimony obtained in writing or in conferences, determines that a violation of RSA 370:2, RSA 362:4-b, or En 500 has occurred, the department staff shall issue a notice of violation (NOV) to the respondent.
- (b) The NOV so issued shall include:
- (1) The factual and statutory basis for the unfavorable preliminary determination;

- (2) A description of factors relied upon by department staff in making its determination, such as the size of the business of the utility, gravity of the violation, history of prior violations, degree of culpability of the respondent, how quickly the respondent took action to rectify the situation, cooperativeness of respondent, history of prior violations, effect of penalty on the utility, and any other identifiable factors which would tend to either aggravate or mitigate the violation;
- (3) The civil penalty, if any, proposed to be imposed;
- (4) Procedures for remitting penalty; and
- (5) Statutory rights of the respondent as enumerated in RSA 374:7-a.

En 510.09 Response to Notice of Violation. Within 10 days from receipt of the NOV, the respondent shall either:

- (a) Sign a consent agreement and remit the civil penalty; or
- (b) File a request in writing for a hearing before the commission.

En 510.10 Department Action.

(a) The Notice of Violation shall become final and the department shall act upon it unless the respondent requests a hearing pursuant to En 510.09(b).

(b) The department shall forward hearing requests pursuant to En 510.09(b) to the commission.

PART En 511 LP AND LANDFILL GAS PIPELINE SAFETY STANDARDS

En 511.01 Compliance with Federal Standards Required.

(a) All LPG operators and landfill gas operators shall comply with those pipeline safety regulations established by the United States Department of Transportation as set forth in 49 C.F.R. Parts 191 and 192.

(b) All LPG operators shall comply with the LP Gas Code (NFPA 58) as referenced by 49 C.F.R. § 192.7.

(c) LPG operators shall employ the guidelines contained in the *Training Guide for Operators of Small LP Gas Systems*, written by the United States Department of Transportation and the National Association of Regulatory Utility Commissioners, printed April 2001.

En 511.02 Compliance with Other Standards.

(a) LPG operators shall comply with the edition of the NFPA 54, the National Fuel Gas Code, as referenced in New Hampshire Code Administrative Rules Saf-C 6000.

(b) Nothing in these rules shall prohibit or limit the New Hampshire department of safety adopting a different edition of NFPA 58, the LP Gas Code.

En 511.03 E-27-A Jurisdictional LP Gas Facilities Report.

(a) Each LPG operator shall submit Form E-27-A “Jurisdictional LP Gas Facilities Report” to the enforcement division of the department within 30 days after notice of all newly installed, acquired, transferred or discontinued jurisdictional systems.

(b) The completed form shall include the following:

- (1) Name of the LPG operator and contact person, with telephone number;
- (2) Date of installation, acquisition or transfer of facilities;
- (3) Size of tank;
- (4) Location of the facilities, including street name and number, city or town, and locus map;
- (5) Number of meters and customers; and
- (6) Supervisor's name and signature, with date of signature.

(c) If a LPG operator is providing LPG to a facility that such operator believes to match the criteria of a jurisdictional system, such operator shall notify the owner of the facility and the enforcement division of the existence of said facility.

En 511.04 Confidential Records. Consistent with RSA 91-A:5, the department shall not release to the public reports filed pursuant to En 511.03.

En 511.05 Emergency Notification.

(a) The LPG operator or landfill gas operator shall notify the enforcement division of the department by telephone when any of the following occur:

- (1) A release of gas from a LPG system or landfill gas system that results in:
 - a. A death;
 - b. Personal injury necessitating same day professional medical treatment; or
 - c. Estimated property damage of \$5,000 or more;
- (2) A fire or an explosion at, or emergency shutdown of, an LPG system, landfill gas system or facility.
- (3) An evacuation of a building conducted by a fire department, LPG operator, or landfill gas operator or other emergency personnel because of the presence of gas in the atmosphere or in the immediate vicinity of the building;
- (4) An unplanned service interruption or gas outage that is expected to result in 50 or more customer outage hours;
- (5) A single unplanned outage occurring at a state, federal, or municipal facility, hospital, school or other facility in which the public could be affected;
- (6) A breach of security or other threat that jeopardizes the operation of a jurisdictional facility of aggregate capacity greater than 6,000 gallons; or
- (7) An event which is significant in the judgment of the LPG operator or landfill gas operator even though it is not described above.

(b) An LPG operator or landfill gas operator shall not be required to determine or document the presence or involvement of gas in any incident or event before notifying the department.

(c) The telephone notification shall be made promptly, but no more than one hour following discovery of the incident by the LPG operator or landfill gas operator.

(d) The LPG operator or landfill gas operator shall provide to the department investigator who responds to the call the following information:

- (1) Identity of reporting LPG operator or landfill gas operator;
- (2) Name, title, and location of the person reporting the incident;
- (3) Location of the incident including street, address and city or town;
- (4) Number of known or estimated fatalities and personal injuries, if any;
- (5) Type and extent of known or estimated property damage;
- (6) Description of the incident or event including any significant facts known by the LPG operator or landfill gas operator that relate to the cause and resolution of the problem;
- (7) Date and hour the incident occurred and was discovered by the LPG operator or landfill gas operator and, to the extent known, by any other party;
- (8) For a service interruption, gas outage, or evacuation of a building, the estimated or known number of people and customers affected and the estimated or actual duration of the outage; and
- (9) When the Office of Pipeline Safety of the United States Department of Transportation was, or will be, notified of the incident, if applicable.

En 511.06 Incident Reporting.

(a) In addition to the emergency notification required in En 511.05, LPG operators and landfill gas operators shall report in writing to the department any event occurring in connection with its facilities and services, as follows:

- (1) An LPG operator or landfill gas operator shall report to the department within 20 business days following discovery any incident which the LPG operator or landfill gas operator shall be required to report to the federal Office of Pipeline Safety pursuant to 49 C.F.R. § 191.9 on federal Department of Transportation Form PHMSA F 7100.1, "Incident Report-Gas Distribution System," a copy of which shall be submitted to the department;
- (2) Each LPG operator and landfill gas operator shall report to the department twice annually on the status of any ongoing leaks occurring in its gas distribution systems; and
- (3) An LPG operator or landfill gas operator shall report to the department any accident involving injury to a person or damage to property as provided in En 511.07(b).

(b) An LPG operator or landfill gas operator shall file any report required pursuant to (a)(1) above in addition to any report required pursuant to (a)(2) or (a)(3) above.

(c) When additional relevant information is obtained after a report under this section is submitted, the LPG operator or landfill gas operator shall make a supplementary report to the department conveying this information.

En 511.07 Accidents.

(a) Each LPG operator and landfill gas operator shall notify the department of any accident, as described in En 511.05(a)(1), pursuant to En 511.05.

(b) Each LPG operator and landfill gas operator, as applicable, shall submit a written report to the department on Form E-5 "Utility Accident Report," within 10 working days following the occurrence of any accident involving a release of LP gas or landfill gas from a pipeline or facility in which:

- (1) A death has occurred;
- (2) Any personal injury which requires same day professional medical treatment;
- (3) Any person receiving an injury which incapacitates that person from active work for a total of 6 days or more during the 10 days immediately following the accident; or
- (4) Any property damage over \$5,000.

(c) If any event later occurs in connection with an accident which renders an accident reportable under this section or results in an additional reportable event under (b)(1) through (4) above associated with a report previously submitted, such operator shall submit a new or updated report, as appropriate.

En 511.08 Construction and Maintenance.

(a) Except as established herein or by municipal regulations within their jurisdiction which are more stringent than the state or federal requirement, each LPG operator shall construct, inspect, install, operate and maintain its systems, equipment and gas pipelines in accordance with all applicable federal and state requirements, including but not limited to the requirements of the 49 CFR Part 192, and NFPA 58 LP Gas Code, subject to En 511.01(b).

(b) Except as established herein or by applicable municipal regulations that are more stringent than the state or federal requirement, each landfill gas operator shall construct, inspect, install, operate and maintain its systems, equipment and gas pipelines in accordance with all applicable federal and state requirements, including but not limited to the requirements of 49 C.F.R. Part 192.

(c) Pipelines shall be laid at least 12 inches away from any other underground structure, or, if this clearance cannot be attained, the pipeline shall be protected from damage that might result from the proximity of the other structure.

(d) For LPG operators, operating pressures within a building will be limited to the requirements in NFPA 54 National Fuel Gas Code, as incorporated by En 511.02(a).

(e) Operating and maintenance procedures shall be documented according to a plan as follows:

- (1) Each LPG operator and landfill gas operator shall establish a written operating and maintenance plan pursuant to 49 C.F.R. § 192.603 which shall include the criteria set forth in 49 C.F.R. § 192.605;
- (2) Each LPG operator and landfill gas operator shall file with the department its plan together with any subsequent amendments to the plan;
- (3) Each LPG operator and landfill gas operator shall operate, inspect, maintain and construct its system in accordance with its plan; and
- (4) Each LPG operator and landfill gas operator shall inspect new construction.

(f) All combustible gases transported or distributed by a pipeline shall have a distinctive odor of sufficient intensity so that at a concentration in air of one-fifth of the lower explosive limit, the odor is readily perceptible to the normal or average olfactory sense of a person coming from fresh, uncontaminated air into a closed room.

(g) Each LPG operator shall test for odorant levels in accordance with (f) above at least quarterly each calendar year, with intervals not exceeding 3 and a half months at the operator bulk plants that supply LPG to an LPG jurisdictional systems. These tests shall be performed with an odorometer or equivalent device capable of determining the percentage of gas in air at which the odor becomes readily detectable by the tester in accordance with 49 C.F.R. § 192.625. Records shall be preserved documenting each delivery from the operator bulk plant to an LPG jurisdictional system for a period of not less than 2 years.

(h) Sniff tests to determine that odorant is present shall be performed at each LPG jurisdictional system at least once annually and whenever maintenance is performed on the system.

(i) Each landfill gas operator shall test for odorant levels in accordance with (f) above at least quarterly each calendar year, with intervals not exceeding 3 and a half months at the furthest end point of the system that can be readily accessible. These tests will be performed with an odorometer or equivalent device capable of determining the percentage of gas in air at which the odor becomes readily detectable by the tester.

En 511.09 Underground Utility Damage Prevention Program. All LPG operators and landfill gas operators shall comply with En 800.

En 511.10 Marking of Containers.

(a) All LPG operator owned containers, above ground or underground, installed at consumer locations shall be marked in a legible manner with the name and telephone number of the owner by decal, tag, stencil, or similar marking.

(b) Containers gained through acquisition shall be marked as soon as possible, but no later than 30 days after acquisition.

En 511.11 System Maps. Each LPG operator and landfill gas operator shall have on file at its principal office a map(s) or drawings showing:

(a) The size, character, and location of pipeline facilities, including valves, installed after February 1, 2005; and

(b) The size and location of each service line provided that, in lieu of showing service locations on maps, a card record or other suitable means may be used.

En 511.12 Procedure for Reporting Emergencies.

(a) As used in this section, "regular working hours" means Monday through Friday, 8 a.m. to 5 p.m. except holidays.

(b) Each LPG operator and landfill gas operator of a system shall furnish a written explanation to each customer of a system of the procedure to be used to report gas leaks and other related emergencies including:

(1) A telephone number at which the operator can be contacted during regular working hours;

(2) A telephone number for reporting emergencies during nonworking hours; and

(3) The telephone numbers of emergency response agencies, including, without limitation, the local police and fire departments.

(c) The procedure shall be updated and reissued as often as is necessary, but at least once each calendar year.

En 511.13 Preservation of Records.

(a) All records required by these rules shall be preserved by the LPG operator and/or landfill gas operator.

(b) The LPG operator or landfill gas operator shall make such records available to the department or its staff upon request at the LPG operator's office.

(c) All system records required by these rules shall be transferred to the new LPG operator upon the change in the gas supplier.

(d) Upon acquisition of, termination of service by, or conveyance of records to any new LPG operator or person, the relinquishing operator shall, prior to any conveyance of records, copy and retain in a legible paper format, in addition to any electronic format or formats the operator chooses to utilize, any and all records pertaining to the location for a 7-year period from the date of transfer.

En 511.14 Leakage Surveys and Inspections.

(a) For purposes of this section, "business districts" means the principle business areas in the urban portion of a community.

(b) The presence of certain factors shall indicate the presence of a business district, as follows:

(1) The general public regularly congregates in this area for economic, industrial, religious, educational, health or recreational purposes;

(2) The majority of the buildings on either side of the street are utilized for commercial, industrial, religious, educational, health or recreational purposes;

(3) Gas facilities are under continuous paving that extends either from the center line of the thoroughfare to the building wall or from the storage tank to the building wall; or

(4) Other locations or sites in the urban portion of a community which contain a similar density and/or mix of buildings and services as provided in (1) through (3) above.

(c) Each LPG operator and landfill gas operator shall conduct periodic leakage surveys in accordance with this section.

(d) Each LPG operator and landfill gas operator shall include a plan for periodic leakage surveys in its operating and maintenance plan.

(e) Each LPG operator shall conduct a leakage survey upon a change in gas supplier.

(f) Each LPG operator and landfill gas operator shall conduct periodic leakage surveys in business districts and outside business districts in intervals as required by 49 C.F.R. § 192.706 or § 192.723.

(g) Each LPG operator shall conduct periodic leakage surveys by:

(1) Performing a pressure drop test according to Appendix D of NFPA 54, as adopted by En 511.02(a); or

(2) Utilizing a combustible gas indicator meter or equivalent testing procedures.

(h) Each landfill gas operator shall conduct periodic leakage surveys by utilizing a combustible gas indicator meter or equivalent testing procedures.

(i) The type and scope of the leakage control program shall be determined by the nature of the operations, such as liquid petroleum distribution systems and the local conditions, but it shall meet the minimum requirements set forth in this section.

(j) Each LPG operator and landfill gas operator shall follow procedures for classification and control of flammable gas leaks approved by the department's enforcement division.

(k) When investigating a leak, if it is determined that the perimeter of a leak area extends to a building wall, the investigation shall continue into the building unless public safety or identifiable exigent circumstances prohibit entry.

(l) The LPG operator or landfill gas operator shall establish a leak repair priority based on its evaluation of the location and the magnitude of a leak.

(m) Each LPG operator and landfill gas operator shall assign a classification of leaks as follows:

(1) Class I shall be a leak that represents an existing or probable hazard to persons or property, and requires immediate repair within 24 hours or continuous action until the conditions are no longer hazardous;

(2) Class II shall be a leak that is recognized as being non-hazardous at the time of detection, but requires scheduled repair within 6 months or before the end of the calendar year based on probable future hazard; and

(3) Class III shall be a leak that is non-hazardous at the time of detection and can be reasonably expected to remain non-hazardous.

(n) In making a determination as to whether to classify a leak as Class I, II or III, an LPG operator or landfill gas operator shall comply with leak classification and leakage control procedures set forth in the 1999 ASME Guide for Gas Transmission and Distribution Piping Systems, Guide Material Appendix G-11A, Tables 3a, 3b and 3c, substituting the term "class" for "grade."

(o) Each LPG operator and landfill gas operator shall conduct a follow-up inspection as follows:

(1) The perimeter of the leak area shall be checked with a combustible gas indicator (CGI); and

(2) Where there is residual gas in the ground after the repair of a Class I leak, the LPG operator shall conduct a follow-up inspection as soon as practical after allowing the soil atmosphere to vent and stabilize, but in no case later than one month following the repair.

(p) In the case of leak repairs other than Class I, the need for a follow-up inspection shall be determined by qualified personnel of the LPG operator or landfill gas operator.

En 511.15 Leakage Record-Keeping and Reporting.

(a) Each LPG operator and landfill gas operator shall maintain records and follow self-audit procedures regarding gas leaks and leakage surveys as follows:

(1) Each LPG operator and landfill gas operator shall preserve historical gas leak records for no less than 7 years; and

(2) Each LPG operator and landfill gas operator shall maintain permanent records for leaks which are reported by an outside source or require reporting to a regulatory agency.

(b) The leak records required in (a) above shall not be required to be maintained in any specific format or retained at one location.

(c) The leak records as required in (a) above shall include the following:

- (1) Date discovered, time reported, time dispatched, time investigated and by whom;
- (2) Date repaired, time repaired and by whom;
- (3) If a reportable leak, date and time of telephone report to regulatory authority and by whom;
- (4) Location of leak; and
- (5) Method of leak detection including name and address if reported by an outside party.

(d) Each LPG operator and landfill gas operator shall report to the department leaks occurring in its gas distribution or transmission system pursuant to En 511.05(a)(1).

En 511.16 E-5 LPG Operator or Landfill Gas Operator Accident Report.

(a) Each LPG operator and landfill gas operator shall file with the department Form E-5 "Utility Accident Report" within 10 working days of when an LPG operator or landfill gas operator accident, as described in En 511.07(b), occurs.

(b) Each LPG operator and landfill gas operator shall include the following on Form E-5:

- (1) Report number, date and name and address of LPG operator or landfill gas operator;
- (2) Date and location of accident;
- (3) Description of person injured including:
 - a. Name;
 - b. Age;
 - c. Residence;
 - d. Employer; and
 - e. Status of injured person, whether employee, person under contract, invitee, licensee, trespasser or other;
- (4) Description of injury, current condition, duration of disability and, if applicable, anticipated return to work date;
- (5) Description of cause and manner of accident;
- (6) If applicable, cause of death, previous accident report number;
- (7) Designation of federal or state statute violated, if applicable;
- (8) Recommendation for and steps taken to guard against repetition of accident; and
- (9) Signature and title of signatory.

PART En 512 ENFORCEMENT PROCEDURES FOR LP AND LANDFILL GAS OPERATORS

En 512.01 Jurisdiction Scope and Application of Authority.

(a) Pursuant to RSA 362:4-b, RSA 370:2, and RSA 374:7-a, the department shall enforce safety standards and practices for LPG and landfill operators, as referred to in En 511, and consistent with the Natural Gas Pipeline Safety Act which is set forth at 49 U.S.C. § 60101, et seq.

(b) In enforcing safety standards and practices the department shall consider:

- (1) Pipeline safety data;
- (2) The appropriateness and reasonableness of a safety standard applied to a particular incident or circumstances; and
- (3) Other relevant information regarding the circumstances of an incident.

(c) The department in exercising and implementing its inspection and enforcement authority shall act by and through the enforcement division.

(d) Pursuant to RSA 362:4-b and consistent with the Natural Gas Pipeline Safety Act, the department shall:

- (1) Investigate all methods and practices of LPG and landfill gas operators relating to pipeline safety;
- (2) Require the maintenance and filing of reports, records and other information relating to pipeline safety;
- (3) Enter at all reasonable times to inspect the property, building, plants and offices of LPG and landfill gas operators to investigate and determine compliance with pipeline safety requirements; and
- (4) Inspect all books, records, papers and documents relevant to the pipeline safety.

(e) Each LPG operator and landfill gas operator shall cooperate fully with the department and its staff in investigations and inspections, including maintaining and providing all relevant information and data and providing such access as the department shall require.

En 512.02 Intervals of Inspection.

(a) Each LPG operator and landfill gas operator shall allow the department staff, upon presentation of identifying credentials, to enter upon, inspect and examine the records and properties of persons to the extent such records and properties are relevant to determining the compliance of such persons with department rules or orders, or commission rules or orders.

(b) Each LPG operator and landfill gas operator shall permit the department to conduct inspections in response to or related to any of the following:

- (1) Routine scheduling;
- (2) A complaint received from a member of the public or any party;
- (3) Information obtained from a previous inspection;
- (4) A pipeline accident or incident; or

(5) Ensuring compliance with En 500.

(c) In addition to the specialized inspection schedule referred to in (b) above, the department shall schedule and conduct additional inspections if:

- (1) Results obtained in an initial inspection show a defect, irregularity or non-compliance which establishes the need for a subsequent or follow-up inspection; or
- (2) The department determines that additional inspections are required to provide sufficient information to allow it to determine the LPG operator's or landfill gas operator's compliance with department rules or orders, or commission rules or orders.

En 512.03 Inspection of LPG and Landfill Gas Operators.

(a) The department shall inspect every LPG and landfill gas operator.

(b) The inspection shall include a thorough review of the operator's records concerning inspection, operation, maintenance, construction and emergency procedures.

(c) Field inspections shall include:

- (1) Operational checks of corrosion control provisions;
- (2) Overpressure and regulating equipment;
- (3) Odorization;
- (4) Repaired leaks;
- (5) Emergency valves;
- (6) Maintenance of systems;
- (7) Qualification of personnel;
- (8) Public awareness programs, emergency response programs, underground damage prevention programs, and integrity management programs for transmission and distribution systems;
- (9) Any other components of the facility; and
- (10) Compliance with NFPA 58, the LP-Gas Code, as required by En 511.01.

En 512.04 Verbal Notice to LPG Operator or Landfill Gas Operator of Probable Violation.

(a) When an evaluation of an LPG operator's or landfill gas operator's records and facilities indicates that the LPG operator or landfill gas operator is apparently not in compliance with a pipeline safety regulation, the department investigator will informally discuss the probable violation or noncompliance with the LPG operator or landfill gas operator within 10 business days unless immediate corrective action is necessary following the inspection.

(b) The LPG operator or landfill gas operator shall provide any documentation or physical evidence related to the alleged non-compliance which the department investigator shall request during the inspection or by letter.

(c) The LPG operator or landfill gas operator may notify the department staff and undertake on-site corrective action of the facility where the probable violation exists, thus correcting the identified deficiency.

En 512.05 Written Formal Notice of Probable Violation.

(a) After the department staff receives evidence of a possible violation, the department shall issue a written notice of probable violation (NOPV) to the party alleged to have committed the violation.

(b) The department staff shall send information regarding the NOPV by certified mail to the party alleged to have committed the violation.

(c) The NOPV shall include the following:

- (1) A description of the probable violation and reference to the rule or statute regarded as violated;
- (2) The date and location of the probable violation;
- (3) A statement notifying the party or parties involved that civil penalties might be imposed pursuant to RSA 362:4-b and RSA 374:7-a, in the event of unfavorable judgment;
- (4) The amount of the civil penalty;
- (5) A description of factors relied upon by department staff in making its determination, such as the size of the business of the utility, gravity of the violation, history of prior violations, degree of culpability of the respondent, how quickly the respondent took action to rectify the situation, cooperativeness of respondent, history of prior violations, effect of penalty on the LPG or landfill gas operator, and any other identifiable factors which would tend to either aggravate or mitigate the violation;
- (6) Statutory rights of the respondent as enumerated in RSA 374:7-a; and
- (7) Procedures for resolving the complaint.

(d) The LPG operator or landfill gas operator shall respond in writing to the department within 30 days of its receipt of the violation notice referred to in (a) above.

En 512.06 Responses to Notice of Probable Violation.

(a) Upon receipt of the NOPV the respondent shall either:

- (1) Submit to the department within 30 days, in writing, evidence refuting the probable violation referenced in the NOPV;
- (2) Submit to the department within 30 days a written plan of action outlining action the respondent will take to correct the violations, including a schedule and the date when compliance is anticipated;
- (3) Execute a consent agreement with the department resolving the probable violation and remit the civil penalty; or
- (4) Request in writing within 30 days an informal conference with the department staff to examine the basis of the probable violation.

(b) Any LPG operator or landfill gas operator involved in the NOPV shall provide a representative for any informal conference or hearing scheduled relative to that NOPV.

En 512.07 Informal Conferences.

(a) After receiving the request for the informal conference, the department staff shall:

- (1) Arrange a date, time, and location for the informal conference; and
- (2) Notify the respondent by certified mail of the date, time, and location of said informal conference.

(b) At the informal conference, the department staff shall review the basis for the violation(s). The LPG operator or landfill gas operator may explain its position and may present alternatives for solution of the problem.

(c) If the LPG operator or landfill gas operator and the department staff cannot by agreement resolve the violation at this stage, the enforcement procedure shall continue as described in En 512.08.

En 512.08 Notice of Violation.

(a) If the department staff, after reviewing evidence and testimony obtained in writing or in conferences, determines that a violation of RSA 370:2, RSA 362:4-b, or En 500 has occurred, the department staff shall issue a notice of violation (NOV) to the respondent.

(b) The NOV so issued shall include:

- (1) The factual and statutory basis for the unfavorable preliminary determination;
- (2) A description of factors relied upon by department staff in making its determination, such as the size of the business of the LPG operator or landfill gas operator, gravity of the violation, history of prior violations, degree of culpability of the respondent, how quickly the respondent took action to rectify the situation, cooperativeness of respondent, history of prior violations, effect of penalty on the LPG operator or landfill gas operator, and any other identifiable factors which would tend to either aggravate or mitigate the violation;
- (3) The civil penalty, if any, proposed to be imposed;
- (4) Procedures for remitting penalty; and
- (5) Statutory rights of the respondent as enumerated in RSA 374:7-a.

En 512.09 Response to Notice of Violation. Within 10 days from receipt of the NOV, the respondent shall either:

- (a) Sign a consent agreement and remit the civil penalty; or
- (b) File a request in writing for a hearing before the commission.

En 512.10 Department Action.

(a) The Notice of Violation shall become final and the department shall act upon it unless the respondent requests a hearing pursuant to EN 512.09(b)

The department shall forward hearing requests pursuant to En 512.09(b) to the commission.

Appendix A

| Rule | Specific State or Federal Statute or Regulation the Rule Implements |
|------------------|---|
| En 501.01-501.02 | RSA 12-P:5, IV; RSA 362:2, 4-b; 40 U.S.C. 60101 et seq. |
| En 502.01-502.27 | RSA 12-P:5, IV; U.S.C. 60101 |
| En 503.01-503.04 | RSA 12-P:5, IV; RSA 370:1-5 |
| En 504.01-504.07 | RSA 12-P:5, IV; RSA 374:1; RSA 374:54; 49 C.F.R. Parts 191 and 192 |
| En 505.01-505.07 | RSA 12-P:5, IV; RSA 370:1-11; RSA 374:3 |
| En 506.01-506.03 | RSA 12-P:5, IV; 49 C.F.R. Parts 191, 192, 193, 198 and 199; 40 U.S.C. 5121, 60102, 60103, 60104, 60117, 60118 & 60126; 49 C.F.R. 192.615 |
| En 507.01-507.06 | RSA 12-P:5, IV; RSA 374:3, 8; RSA 374:15; 18 C.F.R. Part 201 |
| En 508.01-508.05 | RSA 12-P:5, IV; RSA 370:1-5; RSA 374:48-56 |
| En 509.01-509.18 | RSA 12-P:5, IV; RSA 369:3; RSA 370:1-5; RSA 374:1, 5, 15; 15 U.S.C. § 717 et seq. |
| | |
| En 510.01-510.10 | RSA 12-P:5, IV; RSA 362:4-b; RSA 370:2; RSA 374:3, 7-a; 49 U.S.C. § 60101 |
| En 511.01-511.16 | RSA 12-P:5, IV; RSA 91-A:5; RSA 370:2; RSA 374:3-4; 49 C.F.R. Parts 191 and 192; 49 C.F.R. Part 191.9; 49 C.F.R. Part 192; 49 C.F.R. Part 192.615 |
| En 512.01-512.10 | RSA 12-P:5, IV; RSA 362:4-b; RSA 370:2; RSA 374:7-a; 49 U.S.C. § 60101 |

Appendix B

DOCUMENTS INCORPORATED BY REFERENCE

| Rule | Title | Publisher; How to Obtain; and Cost |
|--|---|--|
| American National Standards Institute (ANSI)/National Fire Protection Association (NFPA) standards: 54 (National Fuel Gas Code) | En 511.02(a); En 511.08(d); En 511.14(g)(1) | Available at: http://www.nfpa.org/aboutthecodes/list_of_codes_and_standards.asp at the following, non-member costs: NFPA 54: \$52.50; NFPA 58: \$52.50. (NFPA contact information: NFPA, 1 Batterymarch Park, Quincy, Massachusetts 02169-7471; Telephone: 617-770-3000 or 1-800-344-3555) |
| American National Standards Institute (ANSI)/National Fire Protection Association (NFPA) standards: 58 (Liquefied Petroleum Gas Code) | En 511.01(b); En 511.08(a); En 512.03(c)(10) | Available at: http://www.nfpa.org/aboutthecodes/list_of_codes_and_standards.asp at the following, non-member costs: NFPA 54: \$52.50; NFPA 58: \$52.50. (NFPA contact information: NFPA, 1 Batterymarch Park, Quincy, Massachusetts 02169-7471; Telephone: 617-770-3000 or 1-800-344-3555) |
| <i>Purging Principles and Practice</i> , American Gas Association (2001 edition) | En 506.02(i) | Available through the American Gas Association for the non-member cost of \$176.00 at http://www.aga.org/Pubs/buy/Pages/default.aspx . (AGA contact information: AGA, 400 North Capitol St NW #450, Washington, DC 20001; Telephone: 202-824-7000) |
| <i>Training Guide for Operators of Small LP Gas Systems</i> , U.S. Department of Transportation (April 2001 edition). | En 511.01(c) | Available for download at no charge at: http://www.phmsa.dot.gov/pipeline/library (USDOT/PHMSA contact information: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 2nd Floor, 1200 New Jersey Ave., SE, Washington, DC 20590; Telephone: 202-366-4433) |
| U.S. Department of Transportation Form (accessed and printed on February 23, 2013): PHMSA F 7100.1-1 (01-2011) - Annual Report for Calendar Year 20_ - Gas Distribution System | En 508.05(a)(2)b | Available for download at no charge at: http://www.phmsa.dot.gov/pipeline/library/forms (contact information as above) |
| U.S. Department of Transportation Form (accessed and printed on February 23, 2013): PHMSA F 7100.1 (Rev. 06-2011) - Incident Report - Gas Distribution System | En 504.06(a)(1); En 508.05(a)(2)a | Available for download at no charge at: http://www.phmsa.dot.gov/pipeline/library/forms (contact information as above) |

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| U.S. Department of Transportation Form (accessed and printed on February 23, 2013): PHMSA F 7100.2 (Rev. 12-2012) Incident Report – Natural and Other Gas Transmission and Gathering Pipeline Systems | En 508.05(a)(2)(c) | Available for download at no charge at: http://www.phmsa.dot.gov/pipeline/library/forms (contact information as above) |
| U.S. Department of Transportation Form (accessed and printed on February 23, 2013): PHMSA F 7100.2-1 (Rev. 12-2012) - Annual Report for Calendar Year 20_ - Natural and Other Gas Transmission and Gathering Pipeline Systems | En 508.05(a)(2)(d) | Available for download at no charge at: http://www.phmsa.dot.gov/pipeline/library/forms (contact information as above) |
| <i>Utilities Accommodation Manual</i> prepared by the New Hampshire state department of transportation (February 2010 edition). | En 506.02(a)(1) | Available for download at no charge at: http://www.nh.gov/dot/org/projectdevelopment/highwaydesign/units/designservices/utility/index.htm (NHDOT contact information: New Hampshire Department of Transportation, John O. Morton Bldg., PO Box 483/7 Hazen Drive, Concord, New Hampshire 03302-0483; Telephone: 603-271-3734) |
| National Electric Code as adopted by RSA 155-A:1, IV (2011 edition, as amended by the state building code review board and ratified by the legislature in accordance with RSA 155-A:10). | En 506.02(g) | Available for a cost of \$89.00 (in PDF or book format) at: http://www.nfpa.org/catalog (contact information as above for the NFPA). Also available for review at the Department of Energy. |
| <i>ASME Guide for Gas Transmission and Distribution Piping Systems</i> , Guide Material Appendix G-11A (1983 edition). | En 511.14(n) | Available for review at the Department of Energy. |