

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
Olympia

ORDER NO. 1036

Effective December 15, 1966

SALE OF LIQUEFIED PETROLEUM GAS

I, Donald W. Moos, Director of Agriculture of the State of Washington, by virtue of the authority vested in me under Chapter 19.93 RCW, after due notice as provided under Chapter 34.04 and 42.32 RCW, and a public hearing held in Olympia, Washington on October 31, 1966 do hereby promulgate the following regulation relating to the sale of Liquefied Petroleum Gas:

REGULATION 1. Pertaining to Liquefied Petroleum Gas

- a. Liquefied Petroleum Gas shall be sold or exposed for sale at retail only by avoirdupois weight, specified in pounds; liquid measure, specified in gallons; or vapor, specified in cubic feet.
- b. When sold by weight or by liquid measure or in units of cubic feet, it shall be dispensed and sold only by the use of such devices that conform to the specifications, tolerances, rules and regulations set forth in National Bureau of Standards Handbook 44, 3rd Edition.
- c. Liquefied petroleum gas sold or delivered to a consumer by liquid measure shall be corrected to a temperature of 60° F with an automatic correction device, or the quantity delivered shall be corrected to a temperature of 60° F in accordance with the volume correction factor table for liquefied petroleum gases set forth in Section (f). When the delivery is made through a meter automatically corrected for temperature, the retail sales ticket shall show the meter adjusted gallons delivered and state that the temperature correction was made automatically. When the delivery is made through a meter not corrected automatically, the retail sales ticket shall show the metered gallons delivered and the temperature of the liquid at the time of delivery, the volume correction factor, and the corrected gallonage. Provided, that: This section shall be applicable to new equipment, equipment that has changed ownership or equipment used in the State of Washington for the first time after the effective date of this regulation.

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This section shall be applicable to all other equipment and with respect to the manual issuance of sales tickets as of January 1, 1969. This section shall NOT apply to unit sales or deliveries made direct to fuel tanks on trucks and automobiles operated on highways, or to containers of less than 200 pound water capacity.

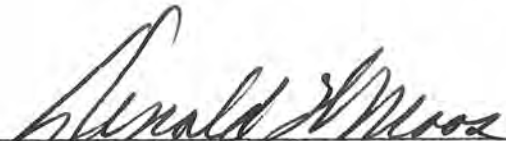
- d. If a device is equipped with an automatic temperature compensator, this shall be connected, operable, and used at all times. Such automatic temperature compensator may not be removed, nor may a compensated device be replaced with an uncompensated device, without the written approval of the weights and measures authority having jurisdiction over the device. Nothing in this section shall prohibit the removal of a meter or temperature compensator for repair providing notice of such removal for repair shall be given the Weights and Measures office in Olympia within three (3) working days.
- e. Containers, including I.C.C. cylinders, with water capacity less than 200 pounds, shall be charged and sold only by weight except containers excluded by law or regulation. The tare weight of the container and the net weight of the contents shall be plainly and conspicuously marked on the outside of the container or on a label firmly attached thereto. This section shall not be construed to require the net weight to be labeled on a container that is being filled at the time of sale. Tare weight shall not be construed to include the valve protecting cap which shall be removed when weighing. When liquefied petroleum gas is sold by the package or container, either by refilling of a container or an exchange of containers, the vendor shall give the purchaser full credit for the unused liquid remaining in the container being exchanged or refilled.

A delivery ticket shall be issued at the time of filling and shall set forth the exact amount of liquefied petroleum gas dispensed in terms of weight or if converted to gallons the weight factor used in such conversion. Any service charge shall be shown separately on the delivery ticket but may be included in the total price.

When sold by weight, the tare weight, any unused portion and/or the net weight shall be determined only on devices that are adequately protected from wind and weather conditions that will assure normal accuracy.

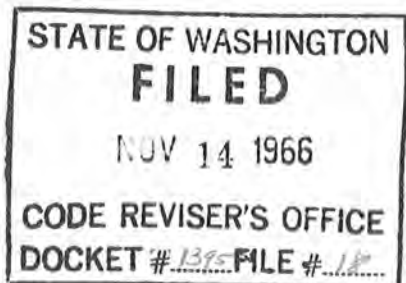
f. Volume Correction Factor Table attached.

I hereby certify that the foregoing is a true and correct copy of the regulation promulgated by the Department of Agriculture.


DONALD W. MOOS
Director of Agriculture
State of Washington

Signed at Olympia, Washington

Date: November 14, 1966



VOLUME CORRECTION FACTOR TABLE.

Specific Gravity at 60 F/60 F

Degrees Fahr	Propane								iso- Butane				N- Butane
	0.500	0.5079	0.510	0.520	0.530	0.540	0.550	0.560	0.5631	0.570	0.580	0.5841	
VOLUME CORRECTION FACTORS													
-15	1.112	1.109	1.107	1.102	1.097	1.093	1.089	1.084	1.083	1.080	1.077	1.075	
-10	1.105	1.102	1.100	1.095	1.091	1.087	1.083	1.079	1.078	1.075	1.072	1.071	
- 5	1.098	1.094	1.094	1.089	1.085	1.081	1.077	1.074	1.073	1.070	1.067	1.066	
0	1.092	1.088	1.088	1.084	1.080	1.076	1.073	1.069	1.068	1.066	1.063	1.062	
2	1.089	1.086	1.085	1.081	1.077	1.074	1.070	1.067	1.066	1.064	1.061	1.060	
4	1.086	1.083	1.082	1.079	1.075	1.071	1.068	1.065	1.064	1.062	1.059	1.058	
6	1.084	1.080	1.080	1.076	1.072	1.069	1.065	1.062	1.061	1.059	1.057	1.055	
8	1.081	1.078	1.077	1.074	1.070	1.066	1.063	1.060	1.059	1.057	1.055	1.053	
10	1.078	1.075	1.074	1.071	1.067	1.064	1.061	1.058	1.057	1.055	1.053	1.051	
12	1.075	1.072	1.071	1.068	1.064	1.061	1.059	1.056	1.055	1.053	1.051	1.049	
14	1.072	1.070	1.069	1.066	1.062	1.059	1.056	1.053	1.053	1.051	1.049	1.047	
16	1.070	1.067	1.066	1.063	1.060	1.056	1.054	1.051	1.050	1.048	1.046	1.045	
18	1.067	1.065	1.064	1.061	1.057	1.054	1.051	1.049	1.048	1.046	1.044	1.043	
20	1.064	1.062	1.061	1.058	1.054	1.051	1.049	1.046	1.046	1.044	1.042	1.041	
22	1.061	1.059	1.058	1.055	1.052	1.049	1.046	1.044	1.044	1.042	1.040	1.040	
24	1.058	1.056	1.055	1.052	1.049	1.046	1.044	1.042	1.042	1.040	1.038	1.037	
26	1.055	1.053	1.052	1.049	1.047	1.044	1.042	1.039	1.039	1.037	1.035	1.036	
28	1.052	1.050	1.049	1.047	1.044	1.041	1.039	1.037	1.037	1.035	1.034	1.034	
30	1.049	1.047	1.046	1.044	1.041	1.039	1.037	1.035	1.035	1.033	1.032	1.032	
32	1.046	1.044	1.043	1.041	1.038	1.036	1.035	1.033	1.033	1.031	1.030	1.030	
34	1.043	1.041	1.040	1.038	1.036	1.034	1.032	1.031	1.030	1.029	1.028	1.028	
36	1.039	1.038	1.037	1.035	1.033	1.031	1.030	1.028	1.028	1.027	1.025	1.025	
38	1.036	1.035	1.034	1.032	1.031	1.029	1.027	1.026	1.025	1.025	1.023	1.023	
40	1.033	1.032	1.031	1.029	1.028	1.026	1.025	1.024	1.023	1.023	1.021	1.021	
42	1.030	1.029	1.028	1.026	1.025	1.023	1.023	1.022	1.021	1.021	1.019	1.019	
44	1.027	1.026	1.025	1.023	1.022	1.021	1.020	1.019	1.019	1.018	1.017	1.017	
46	1.023	1.022	1.022	1.021	1.020	1.018	1.018	1.017	1.016	1.016	1.015	1.015	
48	1.020	1.019	1.019	1.018	1.017	1.016	1.015	1.014	1.014	1.013	1.013	1.013	
50	1.017	1.016	1.016	1.015	1.014	1.013	1.013	1.012	1.012	1.011	1.011	1.011	
52	1.014	1.013	1.012	1.012	1.011	1.010	1.010	1.009	1.009	1.009	1.009	1.009	
54	1.010	1.010	1.009	1.009	1.008	1.007	1.007	1.007	1.007	1.007	1.006	1.006	
56	1.007	1.007	1.006	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004	
58	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
60	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
62	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.998	0.998	0.998	0.998	0.998	
64	0.993	0.993	0.994	0.994	0.994	0.994	0.995	0.995	0.995	0.995	0.996	0.996	

VOLUME CORRECTION FACTOR TABLE (continued)

Degrees Fahr	0.500	Propane 0.5079	0.510	0.520	0.530	0.540	0.550	0.560	iso- Butane 0.5631	0.570	0.580	N- Butane 0.5841
66	0.991	0.990	0.990	0.990	0.991	0.992	0.992	0.993	0.993	0.993	0.993	0.993
68	0.986	0.986	0.987	0.987	0.986	0.989	0.990	0.990	0.990	0.990	0.991	0.991
70	0.983	0.983	0.984	0.984	0.985	0.986	0.987	0.988	0.988	0.988	0.989	0.989
72	0.979	0.980	0.981	0.981	0.982	0.983	0.984	0.985	0.986	0.986	0.987	0.987
74	0.976	0.975	0.977	0.978	0.980	0.980	0.982	0.983	0.983	0.984	0.985	0.985
76	0.972	0.973	0.974	0.975	0.977	0.978	0.979	0.980	0.981	0.981	0.982	0.982
78	0.969	0.970	0.970	0.972	0.974	0.975	0.977	0.978	0.978	0.979	0.980	0.980
80	0.965	0.966	0.967	0.969	0.971	0.972	0.974	0.975	0.976	0.977	0.978	0.978
82	0.961	0.963	0.963	0.966	0.968	0.969	0.971	0.972	0.973	0.974	0.976	0.976
84	0.957	0.959	0.960	0.962	0.965	0.966	0.968	0.970	0.971	0.972	0.974	0.974
86	0.954	0.956	0.956	0.959	0.961	0.964	0.966	0.967	0.968	0.969	0.972	0.972
88	0.950	0.952	0.953	0.955	0.958	0.961	0.963	0.965	0.966	0.967	0.969	0.969
90	0.946	0.949	0.949	0.952	0.955	0.958	0.960	0.962	0.963	0.964	0.967	0.967
92	0.942	0.945	0.946	0.949	0.952	0.955	0.957	0.959	0.960	0.962	0.964	0.965
94	0.938	0.941	0.942	0.946	0.949	0.952	0.954	0.957	0.958	0.959	0.962	0.962
96	0.935	0.938	0.939	0.942	0.946	0.949	0.952	0.954	0.955	0.957	0.959	0.960
98	0.931	0.934	0.935	0.939	0.943	0.946	0.949	0.952	0.953	0.954	0.957	0.957
100	0.927	0.930	0.932	0.936	0.940	0.943	0.946	0.949	0.950	0.952	0.954	0.955
105	0.918	0.920	0.923	0.927	0.932	0.935	0.939	0.943	0.943	0.946	0.949	0.949
110	0.907	0.911	0.913	0.918	0.923	0.927	0.932	0.936	0.937	0.939	0.943	0.944
115	0.897	0.901	0.904	0.910	0.915	0.920	0.925	0.930	0.930	0.933	0.937	0.938
120	0.887	0.892	0.894	0.900	0.907	0.912	0.918	0.923	0.924	0.927	0.931	0.932

To convert from measured volume at another temperature to net volume at 60° F: measure the volume and temperature. Determine the gravity at 60° F. Refer to the column corresponding to this gravity and read the volume conversion factor opposite the observed temperature. Multiply the observed volume by this factor to obtain the volume at 60° F.

DEPARTMENT OF AGRICULTURE

HEARING FORM -- RULES & REGULATIONS

Form to be used by all divisions and to be made a part of hearing file. Compliance with this procedure is the responsibility of Division Supervisor.

Division Regulatory -- Weights and Measures
 Order Subject Methods of sale of Liquid Petroleum fuels such as, Propane and Butane.
 Date & Location of Hearing October 31, 1966 G.A. Bldg. Olympia
 Hearing Officer John H. Lewis, Chief, Weights and Measures

Summary of Pertinent Facts A regulation setting forth standard units of sale; recognizing and authorizing sale of Liquid Petroleum fuels on a temperature compensated basis both by an automatic means and by manual conversion (for which a conversion chart is attached) and requiring small capacity cylinder be filled and invoiced on a weight basis. Such weight determination shall be made over a scale adequately protected from wind and weather effects.

<u>Procedure</u>	<u>Date</u>	<u>Initial</u>
Approved as to policy by Director	10/10/66	CH
Approved as to legal authority by Attorney General	_____	_____
Proposed regulation approved as to legal authority by Attorney General	_____	_____
Notice of hearing filed with Code Reviser	10/21/66	JHL
Notice of hearing to news media and interested parties	10/11/66	JHL
Public hearing (10 days or more after filing)	_____	_____
Regulation adopted (10 days after hearing)	_____	_____
Regulation filed with Code Reviser	_____	_____
Regulation effective (30 days after filing)	_____	_____

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STATUTE LAW COMMITTEE
Office of the Code Reviser
Legislative Building
Olympia, Washington

R E C E I P T No. 109

Received November 14, 1966 rules and regulations
of Department of Agriculture comprising
five pages, relating to Order No. 1036.
Adopted rules relating to sale of Liquefied Petroleum Gas.
Also Volume Correction Factor Table. lb
