

**LCB File No. R064-01**

**PROPOSED REGULATION OF THE  
STATE DEPARTMENT OF AGRICULTURE**

(This proposed regulation was previously adopted as LCB File No. T053-01)

**PROPOSED ADDITIONS**

**NEVADA ADMINISTRATIVE CODE  
CHAPTER 590**

**SPECIFICATIONS OF ALTERNATIVE FUELS**

**ADDITION 1**

*NAC 590.XXX Bio-Diesel: Adoption of specification guides by reference; blend requirements. (NRS 590.070)*

- 1. Except as otherwise provided in this section, the state board of agriculture hereby adopts by reference the specification guides for bio-diesel contained in the Special Publication PS-121 of the American Society for Testing and Materials (ASTM) Standards.*
- 2. Blended B-20 bio-diesel shall meet all of the requirements NAC 590.050 and, by reference within, ASTM D 975. The blend ratio shall be a minimum 20 percent and maximum 21 percent by volume bio-diesel complying with the above specifications for feedstock and composition, and the balance diesel fuel complying with NAC 590.050.*
- 3. B-100 bio-diesel shall not have a density more than 0.88 g/L as determined by ASTM Method D 1298 or D 4522 when used as pure B100 bio-diesel or as a blend containing more than 21% by volume of bio-diesel. This requirement has been added to minimize NOx emissions per a request from the Nevada Division of Environmental Protection. As an alternative to meeting the density specification for B100, fuel producers or suppliers have the option of using an alternative method, approved by the Director of the Department of Agriculture with the concurrence of the Administrator of the Division of Environmental Protection, to demonstrate that NOx emissions do not exceed United States Environmental Protection Agency heavy-duty highway engine certification standards.*

**ADDITION 2**

*NAC 590.XXX M-85 fuel Methanol: Adoption of specification guides by references. (NRS 590.070)*

- 1. Except as otherwise provided in this section, the state board of agriculture hereby adopts by reference the specification guides for M-85 fuel methanol contained in volume 05.03, Petroleum Products and Lubricants, of the 2000 Annual book of the American Society for Testing and Materials (ASTM) Standards, ASTM designation D 5797-96.*

### **ADDITION 3**

*NAC 590.XXX E-85 fuel Ethanol: Adoption of specification guides by references. (NRS 590.070)*

- 1. Except as otherwise provided in this section, the state board of agriculture hereby adopts by reference the specification guides for E-85 fuel ethanol contained in volume 05.03, Petroleum Products and Lubricants, of the 2000 Annual book of the American Society for Testing and Materials (ASTM) Standards, ASTM designation D 5798-98a.*

### **ADDITION 4**

*NAC 590.XXX Hydrogen: Adoption of specifications. (NRS 590.070)*

- 1. Except as otherwise provided in this section, the state board of agriculture hereby adopts the specifications for hydrogen. ASTM method D 2650-99 is contained in volume 05.02, Petroleum Products and Lubricants, of the 2000 Annual book of the American Society for Testing and Materials (ASTM) Standards.*
- 2. A person shall not sell, offer for sale, supply or offer to supply in this state any natural gas intended for use in a vehicle if, when analyzed per ASTM D2650-99:
  - (a) It contains less than 98.0 mole% hydrogen;*
  - (b) It contains less than 99.9 mole% of the combination of hydrogen, water, oxygen and hydrogen; or*
  - (c) It contains more than 0.01 mole % of total hydrocarbons.**
- 3. The hydrogen shall not contain dust, sand, dirt, gums, oils, or other substances in an amount sufficient to be injurious to the fueling station equipment or the vehicle being fueled.*
- 4. The hydrogen fuel at ambient conditions must have a distinctive odor potent enough for its presence to be detected down to a concentration in air of not over 1/5 (one-fifth) of the lower limit of flammability. This requirement applies only to hydrogen which is introduced into the vehicle fuel storage system in gaseous form.*

### **ADDITION 5**

*NAC 590.XXX Natural Gas: Adoption of specifications. (NRS 590.070)*

*At this time, the Department of Agriculture is not recommending standards for the control of natural gas. When the state board of agriculture adopts specifications for natural gas it will use ASTM Method D 2650, latest version, as contained in volume 05.02, Petroleum Products and Lubricants, of the 2000 Annual book of the American Society for Testing and Materials (ASTM) Standards as a basis. The state board of agriculture will adopt this standard only after going through the public workshop and hearing process.*

### **ADDITION 6**

*NAC 590.XXX Liquefied Petroleum Gas: Adoption of specifications. (NRS 590.070)*

*At this time, the Department of Agriculture is not recommending standards for the control of liquefied petroleum gas. When the state board of agriculture adopts specifications for liquefied petroleum gas it*

*will use ASTM Method D 1832, latest version, as contained in volume 05.02, Petroleum Products and Lubricants, of the 2000 Annual book of the American Society for Testing and Materials (ASTM) Standards as a basis. The state board of agriculture will adopt this standard only after going through the public workshop and hearing process.*