

C16.69-7 SPECIFICATIONS (CONT'D) (COG 7) (DESC SEP 2003)

(a) **CALIFORNIA FEDERAL/STATE REFORMULATED GASOLINE REQUIREMENTS.** In accordance with the preceding SPECIFICATIONS clause, facilities in the locations listed below shall be supplied reformulated gasoline that conforms to applicable Federal and State regulations. The requirements compiled below are based on information published by the U.S. Environmental Protection Agency (EPA) and by the California Air Resources Board (CARB) and reflect the impact of Federal and State regulations. These requirements are subject to change before or during the contract performance period.

(1) **GASOLINE REQUIREMENTS FOR ALL CALIFORNIA LOCATIONS.** All facilities in California shall be supplied reformulated gasoline year round that conforms to ASTM D 4814 as modified by the CARB Phase II gasoline requirements stated below:

<u>TEST</u>	<u>REQUIREMENTS</u>
Vapor Pressure	7.0 ppsi maximum
Total Sulfur content	80 ppm maximum by weight
Aromatic content	30 vol % maximum
Benzene content	1.20 vol % maximum
Olefin content	10.0 vol % maximum
Distillation temperature @ 50%	104°C (220°F) maximum
@ 90%	165°C (330°F) maximum

Oxygen content is limited seasonally and geographically as described in paragraph (2) below.

(2) **CALIFORNIA STATE OXYGENATION REQUIREMENTS.** The purpose of the oxygenated fuel program is to reduce carbon monoxide emissions from gasoline powered vehicles in the control area through the wintertime use of oxygenated gasolines. **Control area** means an area in which only oxygenated gasoline under the oxygenated gasoline program may be sold or dispensed. **Control period** means the period during which oxygenated gasoline must be sold or dispensed within the control area. The data shown below denote the oxygenated fuel requirements of the fuel for the receiving activity based on the control period specified. These requirements are subject to change before or during the contract performance period.

<u>LOCATION</u>	<u>PERIOD</u>	<u>OXYGEN CONTENT</u>
CALIFORNIA COUNTIES		
Amador, Calaveras, Del Norte, El Dorado (part), Humboldt, Lake, Lassen, Los Angeles (part), Mariposa, Mendocino, Modoc, Monterey, Nevada, Orange, Placer (part), Plumas, Riverside (part), San Benito, San Bernardino (part), Santa Cruz, Sierra, Siskiyou, Sonoma (part), Tuolumne, Trinity, and Ventura	Oct 1 – Feb 29 Mar 1 - Sep 30	1.8 Wt % min. - 2.7 Wt% max. 2.7 Wt% max.
Alameda, Alpine, Butte, Colusa, Contra Costa, El Dorado (part), Fresno, Glenn, Inyo, Kern (part), Kings, Madera, Marin, Merced, Mono, Napa, Placer (part), Sacramento, San Francisco, San Joaquin, San Mateo, Santa Clara, Shasta, Solano, Sonoma (part), Stanislaus, Sutter, Tehama, Tulare, Yolo, and Yuba	Oct 1 - Jan 31 Feb 1 - Sep 30	1.8 Wt % min. - 2.7 Wt% max. 2.7 Wt% max.
Imperial, Kern (part), Los Angeles (part), Riverside (part), San Bernardino (part), San Diego, San Luis Obispo, and Santa Barbara	Nov 1 – Feb 29 Mar 1 - Oct 31	1.8 Wt% min. - 2.7 Wt% max. 2.7 Wt% max.

(3) Starting December 31, 2003, the California Phase 3 Reformulated Gasoline (CaRFG3) regulations prohibit the production of California gasoline with methyl tertiary butyl ether (MTBE). Beginning January 1, 2004, supply of gasoline or reformulated gasoline containing MTBE is no longer permitted.

(b) **CALIFORNIA DIESEL REQUIREMENTS.** In accordance with the preceding SPECIFICATIONS clause, facilities in California shall be supplied diesel fuel that conforms to Federal, State, and local regulations. CARB regulations stipulate that all diesel fuel (for both on-highway and off-highway use) supplied to facilities in California must conform to the following additional requirements:

- (1) **SULFUR CONTENT:** 0.05 weight percent maximum.
- (2) **AROMATIC CONTENT:**
 - (i) Shall be 10 percent maximum if product is sourced from a large refiner; or
 - (ii) Shall be 20 percent maximum if product is sourced from a small refiner; or
 - (iii) Product shall conform to a formulation certified by CARB.

(c) **GASOLINE REQUIREMENTS OUTSIDE OF CALIFORNIA.** In accordance with the preceding SPECIFICATIONS clause, facilities in the locations listed below shall be supplied either gasoline or gasohol that conforms to Federal, State, and local regulations for minimum oxygen content. The oxygenated gasoline requirements compiled below are based on information published by the EPA in the Federal Register (40 CFR Part 81.305) and reflect the impact of Federal, State, and local regulations. These requirements are subject to change before or during the contract performance period.

(1) **OXYGENATED GASOLINE REQUIREMENTS.** The purpose of the oxygenated fuel program is to reduce carbon monoxide emissions from gasoline powered vehicles in the control area through the wintertime use of oxygenated gasolines. **Control area** means an area in which only oxygenated gasoline under the oxygenated gasoline program may be sold or dispensed. **Control period** means the period during which oxygenated gasoline must be sold or dispensed within the control area. The data shown below denote the oxygenated fuel requirements of the fuel for the receiving activity based on the control period specified. These requirements are subject to change before or during the contract performance period.

<u>LOCATION</u>	<u>PERIOD</u>	<u>OXYGEN CONTENT</u>
ARIZONA COUNTIES		
Area B (stipulated by Arizona Revised Statutes 49-541)	Oct 1 - Mar 31	1.8 Wt% minimum 5.7 to 10 vol % (ethanol)
NEVADA COUNTIES		
Clark (part) including the hydrographic basins containing the Las Vegas Valley, the El Dorado Valley, the Ivanpah Valley, the Boulder City limits, and any area within three (3) miles of any such hydrographic basins and which is within Clark County	Oct 1 – Mar 31	3.5 Wt % minimum
The area of Clark County must also meet the below requirements from Nov 1 - 31 Mar:		
Aromatics	30 vol % maximum	
Sulfur	80 ppm maximum	
Washoe	Oct 1 - Jan 31	2.7 Wt% minimum
UTAH COUNTIES		
Utah	Nov 1 – Feb 29	3.1 Wt% minimum (ethanol only)

(2) **REFORMULATED GASOLINE REQUIREMENTS.** Reformulated gasoline is designed to reduce air toxins and volatile organic compound emissions (VOCs) by decreasing the amount of toxic compounds such as benzene, lowering the evaporation rate, and increasing the amount of oxygenate blended with the fuel. The Arizona counties listed below for reformulated gasoline must meet the below Arizona Cleaner Burning Gasoline requirements year round.

LOCATION

ARIZONA COUNTIES

Area A (stipulated by Arizona Revised Statutes 49-541)

<u>TEST</u>	<u>REQUIREMENTS (YEAR ROUND)</u>
Sulfur	500 ppm max. by weight
Aromatic content	50 vol % max.
Olefin content	25 vol % max.
Vapor Pressure	Oct 1 to Mar 31 - 9.0 ppsi max. April - 10 ppsi max. May - 9 ppsi max. June 1 to Sep 30 - 7.0 ppsi max.
Oxygen content	limited seasonally
Nov 1 - Mar 31	3.5 Wt% min. (ethanol)
Apr 1 - Oct 31	no oxygen content

NOTE: Beginning in the winter months of 2000 (Nov 1 - Mar 31), no other oxygen other than ethanol can be used to attain any oxygen requirements that may be required for the oxygenated or reformulated programs.

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