

STATE OF NEVADA  
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR POLLUTION CONTROL

**Director's Review and Final Determination of Permit Issuance for  
Bango Refining NV, LLC  
Revised August 16, 2011**

Bango Refining NV, LLC submitted a Class II application to the Nevada Division of Environmental Protection, Bureau of Air Pollution Control (NBAPC) on May 13, 2011, requesting a revision of Class II Air Quality Operating Permit #AP2992-1473.01. The permit application was deemed administratively complete on May 27, 2011. The revised permit is for continued operation of a used oil and recycled fuel oil re-refining facility that will process used oil and recycled fuel oil into value added products. The permit was originally issued January 25, 2005 and renewed July 8, 2011.

Bango Refining NV, LLC is located at 22211 Bango Road, Fallon, Churchill County, Nevada. The Bango Refining NV, LLC facility is located approximately at UTM 324.48 km East by 4,374.15 km North, Zone 11 (Section 23, Township 19 North, Range 26 East in Hydrographic Area 101). The Standard Industrial Classification (SIC) number for the facility is 2992 - "Establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials."

The revised permit includes the following changes: company name change from Bango Oil, LLC to Bango Refining NV, LLC; responsible official change; Oil Heater #1 changing from a 8.9 MMBtu/hr #2 distillate fuel burner (System 1) unit to 8.0 MMBtu/hr natural gas burner unit (System 1A); RFO Re-Refining Unit #1 off-gases being reduced from Oil Heater #1 (System 1) burner to new Thermal Oxidizer (System 1B); Oil Heater #2 changing from a 4.7 MMBtu/hr #2 distillate fuel burner unit (System 2) to 4.7 MMBtu/hr natural gas burner unit (System 2A); Cooling Tower #1 TDS of cooling water changes from 1,260 ppm to 10,000 ppm (System 3); Oil Heater #3 changing from a 6.7 MMBtu/hr #2 distillate fuel burner unit (System 5) to 17.0 MMBtu/hr natural gas burner unit (System 5A); RFO Re-Refining Unit #2 off-gases being reduced from Oil Heater #1 (System 5) burner to new Thermal Oxidizer (System 5B); **increase the volume of recycled fuel oil processed in Re-Refining Unit #2 (System 5B, S2.008A) from 1,200 gallons per hour to 2,583 gallons per hour; restrict the combined daily volume of recycled fuel oil processed in Re-Refining Unit #1 (System 1B, S2.002A) and Re-Refining Unit #2 (System 5B, S2.008A) to 62,000 gallons per day;** Cooling Tower #2 TDS of cooling water changes from 1,260 ppm to 10,000 ppm and flow rate changes from 800 gpm to 2,000 gpm (System 6); Oil Heater #4 changing from a 2.6 MMBtu/hr #2 distillate fuel burner unit (System 7) to 6.3 MMBtu/hr natural gas burner unit (System 7A); Cooling Tower #3 TDS of cooling water changes from 1,260 ppm to 10,000 ppm (System 8); new System 9 added to include a 4.0 MMBtu/hr natural gas fired thermal oxidizer that will combust off-gases from re-refining process equipment (Systems 1B/5B), tanks listed in Systems 11 and 12, and air stripper (System 15) from water treatment plant; new System 10 added to include a new Cooling Tower #4; new System 11 added to include petroleum liquid process tanks (2 x 1,000,000 gallon recycled fuel oil process tanks, 7 x 25,000 gallon heated feed tanks for recycled fuel oil) controlled by a thermal oxidizer; new System 12 added to include petroleum product storage tanks (2 x 25,000 asphalt product tanks, 1 x 850,000 gallon petroleum product tank, 1 x 400,000 gallon petroleum product tank, 2 x 250,000 petroleum product tanks) controlled by a thermal oxidizer; new System 13 added to include a 60 HP fire pump engine (previously a non-permitted emission unit); new System 14 added to include a 550kW standby generator (previously a non-permitted emission unit); new System 15 added the air stripper for the water treatment plant (exhaust ducted to thermal oxidizer).

The changes to the facility-wide emissions result in a net increase of 13.69 tons/year for PM and PM<sub>10</sub>, a net increase of 8.51 tons/year for NO<sub>x</sub>, a net decrease of 46.41 tons/year for SO<sub>2</sub>, a net increase of 12.58 tons/year for CO, and a net increase of 1.63 tons/year for VOC. Emission changes are below the public notice threshold pursuant to NAC 445B.3457.5.

Bango Refining NV, LLC continues to be a Class II source under the revised permit. The potential-to-emit (PTE) of each regulated air pollutant is less than the 100 ton per year threshold for major source designation. The facility is subject to 40 CFR Part 60 Subpart IIII and 40 CFR Part 63 Subpart ZZZZ.	<i>Annual Emissions</i>	
	Pollutant(s)	tons/yr
	PM <sub>10</sub>	Particulate matter <10 microns in diameter <b>18.16</b>
	NO <sub>x</sub>	Nitrogen Oxides <b>35.55</b>
	SO <sub>2</sub>	Sulfur Dioxide <b>1.65</b>
	VOCs	Volatile Organic Compounds <b>6.41</b>
CO	Carbon Monoxide <b>23.49</b>	

Two ambient air impact studies were completed to: 1) demonstrate compliance with the Nevada and National Ambient Air Quality Standards, 2) demonstrate compliance with the allowable PSD increment consumption for NO<sub>x</sub> in Hydrographic Area 101. The ambient air quality analyses demonstrated that the emissions from the proposed source will not cause or contribute to a violation of any applicable federal or state ambient air quality standards. Therefore, NBAPC has made a final determination to issue a revised Class II Operating Permit #AP2992-1473.01 with appropriate conditions. The proposed source must comply with all State and Federal air quality requirements and all conditions established within the revised Class II Operating Permit #AP2992-1473.01.