



**Utah Division of Air Quality
New Source Review Section**

Company _____

Site/Source _____

Date _____

**Form 1a
Emissions Information**

Please print neatly or type all information requested. All information must be truthful, accurate and complete before we can process your application. If you have any questions, call (801) 536-4000 and ask to speak with a New Source Review engineer. Written inquiries may be addressed to: Division of Air Quality, NSR Section, P.O. Box 144820, Salt Lake City, Utah 84114-4820.

Table 1. Proposed Emissions

Pollutants	Permitted Emissions (tons/year)		Emissions Increases (tons/year)		Proposed Emissions (tons/year)	
	Mass basis	CO ₂ e	Mass basis	CO ₂ e	Mass basis	CO ₂ e
Criteria Pollutants						
PM ₁₀						
PM _{2.5}						
NO _x						
SO ₂						
CO						
VOC						
Greenhouse Gases	<u>Mass basis</u>	<u>CO₂e</u>	<u>Mass basis</u>	<u>CO₂e</u>	<u>Mass basis</u>	<u>CO₂e</u>
Carbon dioxide (CO ₂)						
Methane (CH ₄)						
Nitrous oxide (N ₂ O)						
Hydrofluorocarbons (HFCs)						
Perfluorocarbons (PFCs)						
Sulfur hexafluoride (SF ₆)						
Total Hazardous Air Pollutants						
Hazardous Air Pollutants (list individually) (attach additional sheet if needed)						

Use additional sheets for other pollutants if needed.

**Utah Division of Air Quality
Approval Order Application
Form 1d
Emissions Information**

Instructions

Table 1. Fill out the table. Attach additional sheets if necessary. Provide potential emissions from your entire facility in units of tons per year, expressed to at least two decimal places. Emissions of individual Hazardous Air Pollutants may require more precision; contact a New Source Review Engineer. If you do not now have an Approval Order and you are applying for your first Approval Order, the emissions in "Existing Emissions" column will be zero and the "Emissions Increases" will be equal to the "Proposed" Emissions. If you do have an Approval Order, the emissions in the "Existing Emissions" column will be the emissions listed in your Approval Order. All emissions should be those emissions occurring **after** any air pollution control devices. Provide emissions that would result if you operated 24 hours per day, 8760 hours per year, **unless** you are also proposing operating hour limits. If you are proposing operating hour limits, state what these limits are and provide emissions based on these limits. Provide emissions that would result from your potential production or potential raw material consumption, **unless** you are also proposing production or raw material consumption limits. If you are proposing production or raw material consumption limits, state what these limits are and provide emissions based on these limits. **Attach additional sheets with detailed calculations or stack testing information showing how all of the above emission numbers were determined.**

There are six greenhouse gases currently regulated. USEPA has established a Global Warming Potential (GWP) for each of the six compounds: CO₂ - 1, CH₄ - 21, N₂O - 310, HFCs - 12 - 11,700, PFCs - 6,500 - 9,200, and SF₆ - 23,900. The Carbon Dioxide Equivalent (CO₂e) is determined by multiplying the mass based emission rate in tpy by the GWP. The total CO₂e for all six compounds becomes the CO₂e at the source.

Table 2. Fill out the table. Attach additional sheets if necessary. Provide potential emissions from your entire facility in units of tons per year, expressed to at least two decimal places. Emissions of individual Hazardous Air Pollutants may require more precision; contact a New Source Review Engineer. The Hazardous Air Pollutants should be the same Hazardous Air Pollutants listed in Table 1. The emissions in the "Controlled Emissions" column should be those emissions occurring **after** any air pollution control devices. The emissions in the "Uncontrolled Emissions" should be those emissions occurring **before** any air pollution control devices (in other words, emissions that would result if you did not have any air pollution control devices at all. Provide emissions that would result if you operated 24 hours per day, 8760 hours per year, **unless** you are also proposing operating hour limits. If you are proposing operating hour limits, state what these limits are and provide emissions based on these limits. Provide emissions that would result from your potential production or potential raw material consumption, **unless** you are also proposing production or raw material consumption limits. If you are proposing production or raw material consumption limits, state what these limits are and provide emissions based on these limits. **Attach additional sheets with detailed calculations or stack testing information showing how all of the above emission numbers were determined.**

For GHG emission calculations, refer to the instructions to Table 1.

Table 3. List all Hazardous Air Pollutants emitted by your facility. They should be the same Hazardous Air Pollutants listed in tables 1 and 2. For each HAP provide its maximum emission rate in units of pounds per hour. The emission rates should be those rates occurring **after** any air pollution control devices. **Attach additional sheets with detailed calculations or stack testing information showing how all of the above emission numbers were determined.**

Depending on other conditions unique to each facility, additional emissions information may be required.