

## SPECIFIC INSTRUCTIONS FOR COMPLETING FORM –R

1. *New Permit – Portable Rock Crushing Equipment*
  - a. *Permit Non-Operational-* Check this box if you will not operate the equipment but wish to have the equipment evaluated for compliance eligibility.
  - b. *Permit Operational-* Check this box if you intend to operate equipment when permitted.
  - c. *Permit Renewal-* Check box if you intend to renew Permit for existing generator equipment.
2. *Modifications* - This form is for new permits and equivalent replacements. If you want to modify equipment that has previously been permitted and the modification is not an equivalent replacement, you must apply for a new permit.

*Equivalent Replacement* - Check this box if the existing equipment is being replaced by equivalent equipment. (The DOH permit number of existing unit must be included.)
3. *Equipment Use Including all Operating Scenarios* - Explain how equipment is used, such as "crushing of rock in the manufacture of aggregate," include multiple uses or operating scenarios.
4. *Normal Equipment Operating Schedule* - The typical operating schedule for the equipment in hours per day, days per week, and weeks per year.
5. *Types of Materials Processed* - List types of rocks, aggregates or other materials processed.
6. *Type of Particulate Emission Control and Locations of such Controls* – (i.e. wet suppression system and location of spray points).
7. *Attached Equipment Listing, Site Plan, Material Flow Chart, etc.* - List multiple pieces such as conveyors 1, 2, & 3, crushers, screens 1 & 2, etc. Include a diagram showing the flow and quantities of material and how all components fit together, with emission points delineated. In addition, include manufacturer's specifications or engineering data showing that wet suppression system controls particulate emissions to meet opacity limitations. Make sure that the material flow chart shows the tons per hour through each transfer point
8. *Equipment Listing* - List information regarding major components of equipment. Attach extra pages if needed. For each piece, please provide all of the following:
  - a. *Make* - Describe the equipment, such as "crusher" Manufacturer - for example: Simons, Rexnord, or your company name if built in-house.
  - b. *Model*- may be a series of numbers or letters or combinations of numbers and letters, for example: "3612"
  - c. *Serial Number* - A unique, unit specific number, usually on the equipment nameplate. The serial number is necessary to ensure that each piece of registered equipment can be uniquely identified and matched to its respective registration certificate number.
  - d. *Rated Capacity*- Indicate the maximum rated throughput weight or quantity in pounds or tons per hour.
  - e. *Actual Throughput on Average*- Indicate the average throughput weight or quantity in pounds or tons per hour.
9. *Power Generator* - Specification for fuel usage.
10. *Emissions* – List the emissions rates being produced by the power generator equipment-Refer to: EPA's AP-42, Chapter 3, Table 3.3-1 for the emission factors for the detail calculation: (<http://www.epa.gov/ttn/chief/ap42/ch03/final/c03s03.pdf>) or manufacture's data.
11. *Emissions* –List the particulate emission rates being produced by the rock crushing plant. Provide calculations for particulate emission from loading hopper, crushing and conveyor transfer point, screening and stockpiling conveyor drop point. Provide total emission rate (PM-10) from crushing plant. Refer to EPA's AP-42, Chapter 11, Table 11.19.2-2 for the emission factors for the detail calculation: (<http://www.epa.gov/ttn/chief/ap42/ch11/final/c11s1902.pdf>) or manufacture's data.
12. Provide description of project, specifically regarding wet suppression system availability and operation