

## Ready Mix Concrete Production

Ready Mix Concrete (RMC) is concrete that is manufactured in a factory or batching plant, according to a set recipe, and then delivered to a work site, by truck mounted in-transit mixers. This results in a precise mixture, allowing specialty concrete mixtures to be delivered to construction sites and roads or used to manufacture precast concrete products.

RMC offers different concrete according to users' mix design or industrial standard. RMC companies are equipped with up-to-date equipment, such as in-transit mixer, concrete pump, and concrete batching plant. Concrete itself is a mixture of Portland cement, water and aggregates such as sand and gravel or crushed stone. In traditional work sites, each of these materials is procured separately and mixed in specified proportions at site to make concrete.

### Emissions of Concern

The major pollutant of concern is small cement and additive particles (PM<sub>10</sub>) emitted during the material handling and transfer processes at batching plants.

### Emission Controls

Control of PM<sub>10</sub> is accomplished by cyclones and dust collectors for point source emissions and management practices for fugitive emissions.

### New Source Review (NSR) & Fees

YRCAA requires that a NSR permit application be submitted and approved prior to the construction, installation, establishment, replacement or modification of air contaminant sources, emissions units or air pollution control equipment in YRCAA jurisdiction. This includes equipment associated with stationary or portable devices or any part of such a device that emits or has the potential to emit any air contaminant, including RMC production. There is a NSR permit application fee, and an Order of Approval fee, based on the staff time to conduct the review and draft the Order of Approval.

### Annual Registration & Fees

Sources of air contaminants, including RMC production, must register annually with YRCAA and pay a fee. YRCAA's Board of Directors reviews fees annually. As a part of the registration program, businesses are required to complete and submit a registration form annually. The annual registration program enables YRCAA to classify sources and maintain an inventory of air contaminants. Information is also used to evaluate air pollution control strategies to attain and maintain National Ambient Air Quality Standards.





## COMPLIANCE ASSISTANCE PROGRAM

### Inspections

Regular inspections of registered sources are conducted to verify compliance with air pollution regulations. When inspecting RMC production facilities, the compliance team will:

- review records;
- determine if any changes have been made to processes, equipment, materials or fuels;
- observe operation and maintenance activities;
- determine if any violations of rules, permits or orders exist; and
- determine if any corrective actions are needed to avoid enforcement.

*If you have already installed or modified a RMC production facility or any equipment or process associated with a RMC production facility, or are planning to in the future, please contact YRCAA. Our staff is available to assist you with the permit and registration process.*

### YRCAA Rules

[YRCAA Regulation 1, Subsection 4.01](#)

### State Rules

[WAC 173-400](#) – General Regulations for Air pollution Sources

WAC

### Federal Rules

EPA has rules for control of hazardous air pollutants (HAPs) called maximum achievable control technology (MACT) standards. To determine if your facility, equipment or operation is subject to a MACT standard see the following links:

<http://www.epa.gov/airtoxics/mactfnlalph.html>

<http://www.epa.gov/ttn/atw/area/compilation.html>