

## **PCC: Using State of the Art Technologies to Protect Our Environment**

Founded in Portland in 1956 we make flight-critical airplane parts that ensure the safety of air travel worldwide. Nearly every aircraft in the sky flies with parts made by PCC Structurals.

As a home grown company, PCC Structurals shares the values of our community. We care about protecting our employees and neighbors and minimizing our impact on the environment. Our emission control systems reflect our commitment to minimizing our environmental footprint.

We employ advanced technology to minimize our air emissions. This technology consists of exhaust systems that pull air from the workplace and then filter that air to remove metal dust. These filtration systems are the best available control technology. The Large Parts Campus on Johnson Creek Boulevard (known as "LPC") alone uses 31 different specialized filtration units to minimize the amount of metal dust reaching the environment.

DEQ approved PCC's request to add more air emission control technology to further enhance our emission reduction capability. In addition, PCC is installing a new storm water treatment system to capture and remove storm water contaminants. Below is a brief summary of what these systems are and how they work.

### **CYCLONE PRE-FILTERS**

- Cyclones are machines that use centrifugal force to remove large particles before they reach a baghouse.
- Cyclones can remove up to 90% of the larger dust particles.
- The exhaust from the cyclones then enters a baghouse which removes over 99% of the remaining dust in the air.

### **BAGHOUSES (FABRIC FILTERS)**

- A baghouse captures and removes dust from air using fabric filters.
- Air enters the baghouse and moves through the fabric filter leaving the dust behind.
- Baghouses remove over 99% of the dust in the air.
- The baghouse automatically cleans the filters to maintain high performance. Dust is deposited in containers for reuse or disposal.



### **HEPA FILTRATION**

- HEPA filters are placed on the exhaust of a baghouse to remove very small dust particles not captured by the baghouse.
- Air passes through a very fine mesh filter to capture tiny dust particles not caught in the baghouse filters.
- HEPA filters remove over 99% of particulate matter.

### **STORM WATER FILTRATION SYSTEM**

- PCC's upgraded storm water filtration system (operational this summer) will improve our current process of removing contaminants from the storm water runoff before it reaches the City of Portland's storm water system.
- Our new filtration system is best in class technology and is engineered to remove virtually all detectable contaminants from our storm water.
- In addition, PCC is building a new collection system that will capture fresh water (springs, etc.) upslope of LPC and divert it directly into the City's storm water system which discharges into Johnson Creek.