Wood Dust Sample
Wood Dust Sample Collection

- Samples collected by FP Innovations as part of a wood dust sampling analysis evaluation

- Sample was collected from a BC mill operating floor
  - typical of waste produced from standard milling and processing operations
Wood Dust Sample

• There is a mixture of particle sizes and shapes within a sample

• Dust collected from the mill was separated and retained by sieves of different sizes:
  – 1000µm (1mm), 425µm, 250µm and 75µm (only trace amounts below 75µm)
Wood Dust Sample Cont.

• This collected sample had an average size of 700.7µm (likely larger since largest sieve was 1mm) and some particles are substantially larger.

• Particle sizes within the sample varied from larger than 75µm to significantly greater than 1mm as shown after the sieving process.
AV Size: 700.7µm

- Sieved at 250µm
- Sieved at 75µm
- Sieved at 1mm
- Sieved at 425µm
AV Size: 700.7µm
AV Size: 700.7µm

@250µm

@75µm

@1mm

@425µm
Combustible Dust

- Particle size is a combustibility variable
- Combustible dust guidelines may refer to a particle size of less than 500µm as a threshold for an explosion risk
- Wood dust that may appear to have large particle sizes will also contain many particles of sizes within the caution/risk ranges
  - Can become an issue if separated or filtered
  - Available for deflagration or suspension
  - Available for migration to elevated surfaces