



TITAN
AMERICA

Lance Clark
Environmental Manager
Roanoke Cement





TITAN AMERICA



Roanoke Cement



2007, 2008, 2009 EPA Energy Star Award

2008 EPA Energy Star Partner

2008 Virginia Governor's Award Environmental Excellence – Land Stewardship

2008 Portland Cement Association-Winner, Overall Environmental Excellence; Runner-up, energy Efficiency; Finalist, Environmental Performance

2008 American Institute of Architects Service Award

2009 Roanoke Clean Valley Council-Land Stewardship

2008 Roanoke Valley Cool Cities Coalition-Energy Efficiency

2007 Portland Cement Association-Finalist, Land Stewardship and Overall Environmental Program

Permitting process



COMMONWEALTH of VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
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December 7, 2009

Mr. Kevin Baird
Plant Manager
Roanoke Cement Company
6071 Catawba Road
Troutville, Virginia 24175

Location: Botetourt County
Registration No.: 20232
State-County-Plant No. 51-023-0003

Dear Mr. Baird:

This letter acknowledges receipt of your permit application dated April 30, 2009, and supplemental information dated July 21, 2009 and October 6, 2009. The Department of Environmental Quality (DEQ) Blue Ridge Regional Office has completed its initial review of your request to construct and operate a biomass fuel handling system and to cofire biomass fuel and coal in the kiln system at your Portland cement plant located at 607 Catawba Road near Troutville, Virginia.

Based on this review, it has been determined that the proposed project is exempt from the permitting requirements of Chapter 80, Article 6 of the Virginia Regulations for the Control and Abatement of Air Pollution as long as it is constructed and operated as described in your application and supplemental information. This is because this the proposed project is not subject to Major Source New Source Review under Articles 8 or 9, and:

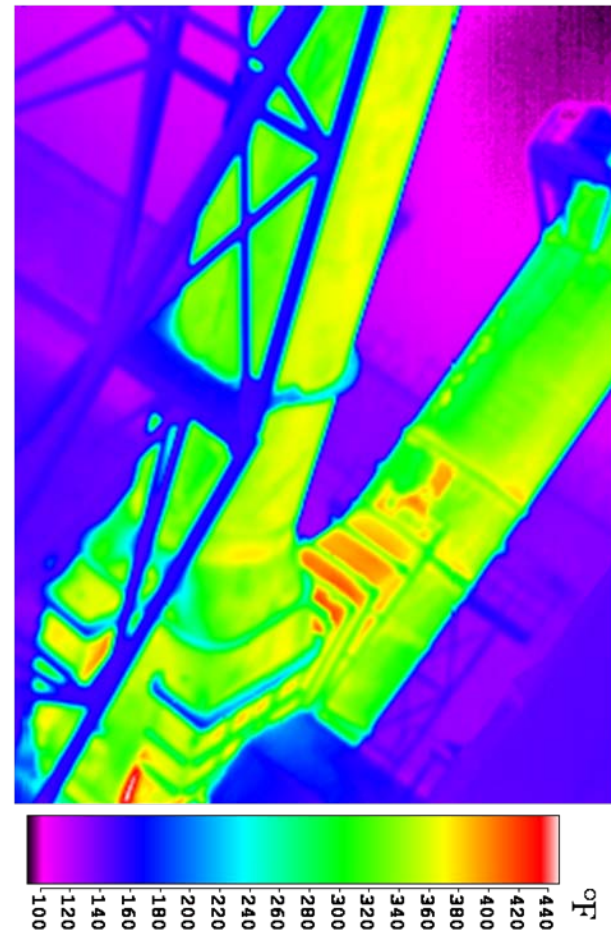
- The net emissions increase of PM and PM-10 from the proposed source modification is 5.42 tons/yr and 2.97 tons/yr, respectively, which is less than the exempt emission rates for those pollutants listed in 9 VAC 5-80-1320 D.

Additionally, there are no HAPs or toxic pollutant emissions from the source which would be subject to permitting under Article 6 because :

- All applicable HAPs emitted from the kiln system are exempt from permitting under an applicable source-wide MACT standard (9 VAC 5-60-300 C).

- Includes:
 - Woody materials
 - Non treated
 - Non dried
 - Paper and cardboard
 - Landfill Gas
 - Agriculture related materials
 - Solid woody waste materials
 - Pallets etc

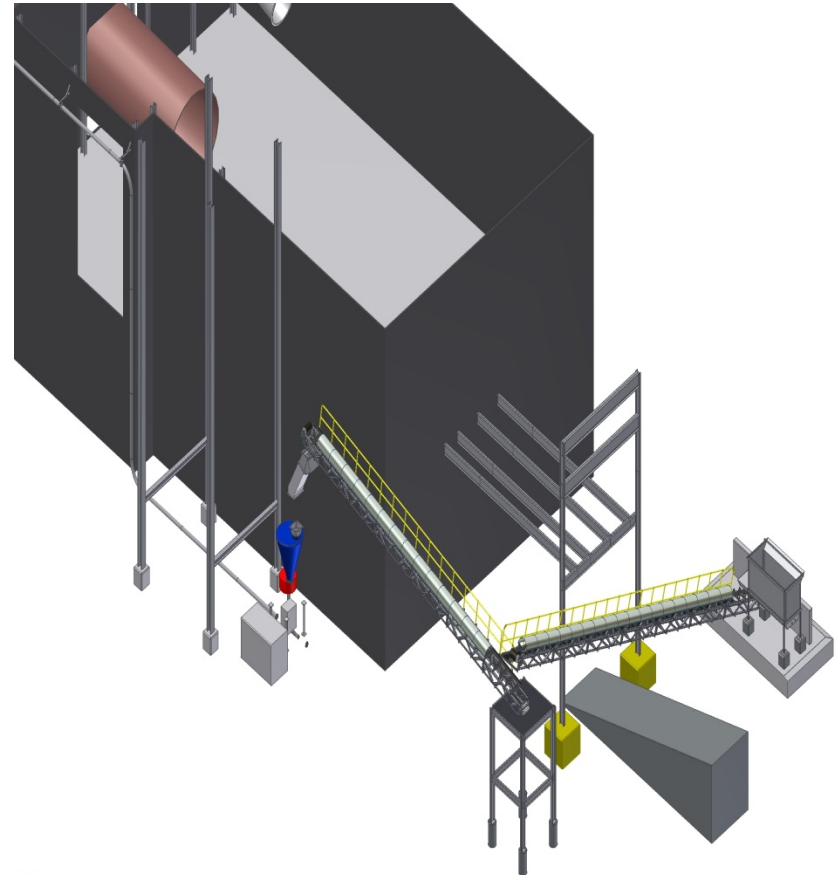
- Dry vs wet
- Natural wood- 50% water- issues
- RCC waste heat source
- Permission denied
 - Potential VOC emissions
 - Unintended consequences of regulations
 - Need to fast track Green projects



When?



- RCC has ordered biomass dosing system
- Delivery/installation late summer early fall 2010



Creating the market



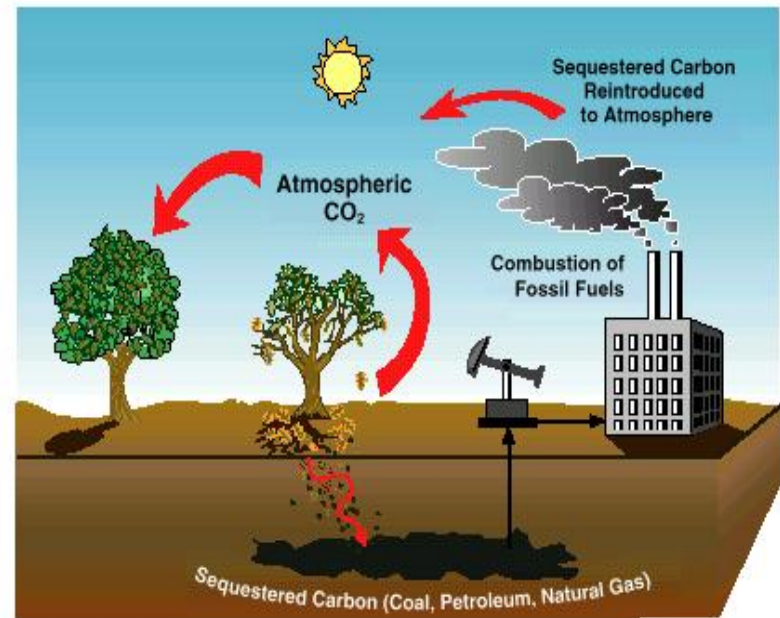
- At 30% coal replacement RCC has potential to consume 60-80K tons of biomass annually
- “build it and they will come”
- Gamble- the right thing to do



Conclusion



- Titan – moving forward with green projects
- Surprising considering
 - Economic times
 - Uncertainty of sources
- Looking for partners in this worthy effort



Simplified carbon cycle. *Unlike fossil fuels, biomass does not increase atmospheric green house gases when burned.*



Thank you

Questions?