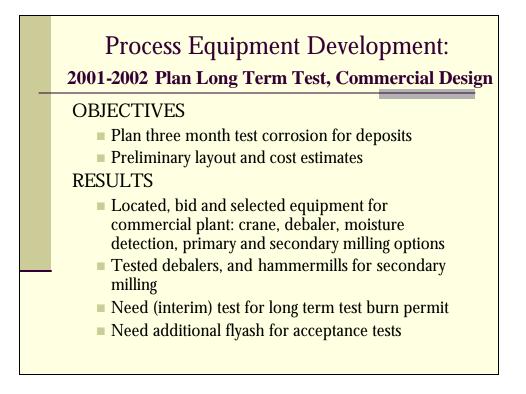


## Process Equipment Development: Results 2000 Cofire – 4 months, 12-18 tph

- Attrition grinding (no screen) demonstrated
- Pneumatic SWG handling clean and efficient, limited by available power
- Straw cofiring had Zero impact on OGS operations
- OGS plant gained confidence in cofiring
- Need uniform and safe debaling with industrial equipment (knife wear 1000 tons/set)
- Need automated twine removal
- Need confirmation of emissions impacts
- Need confirmation of flyash impacts



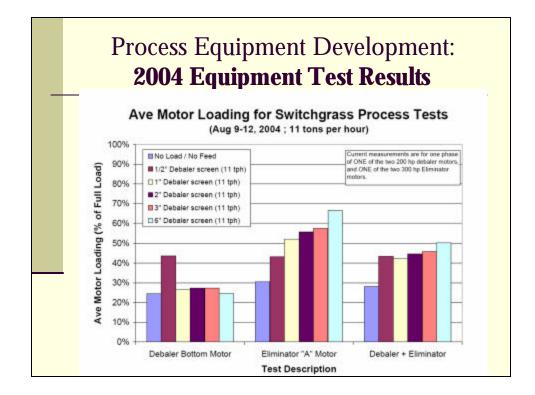


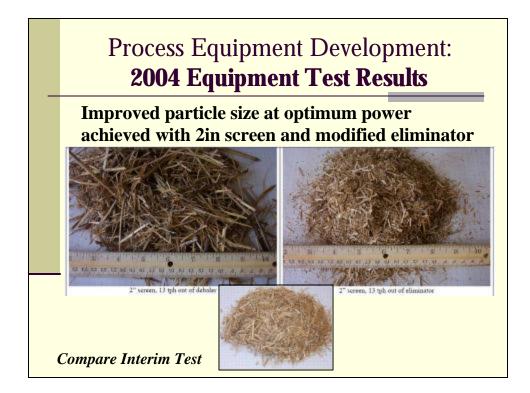


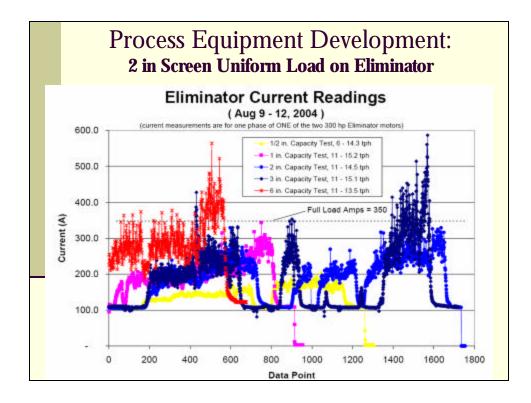


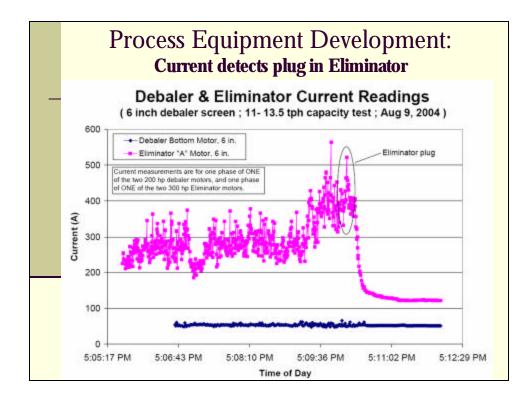
Need verify optimum power consumption



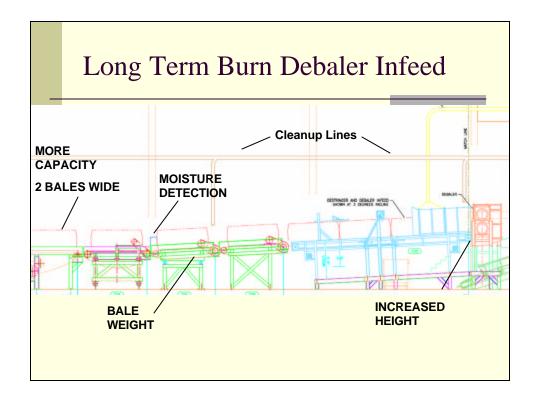


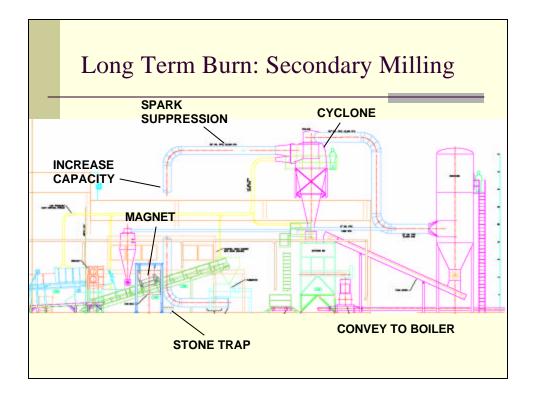


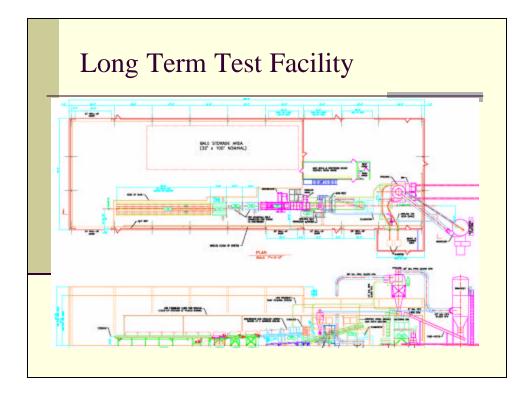


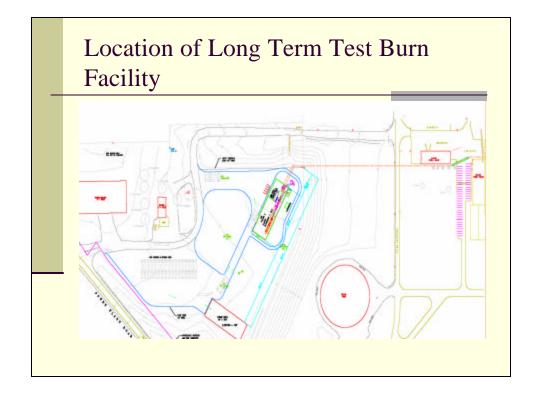


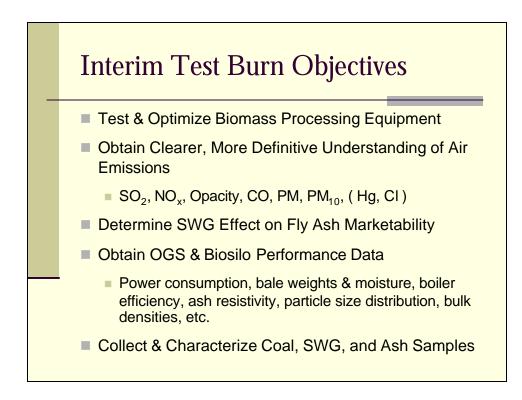


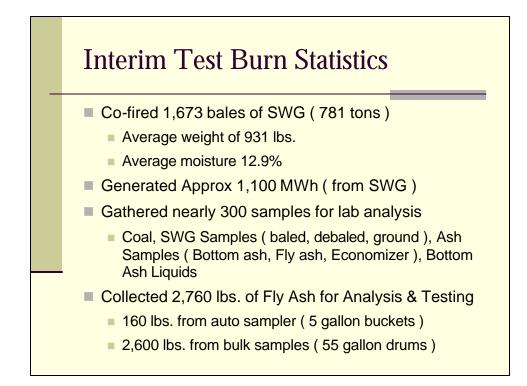


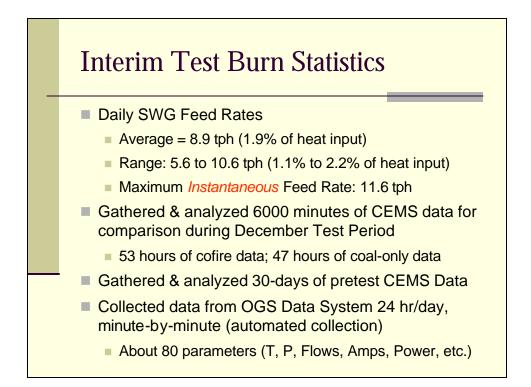


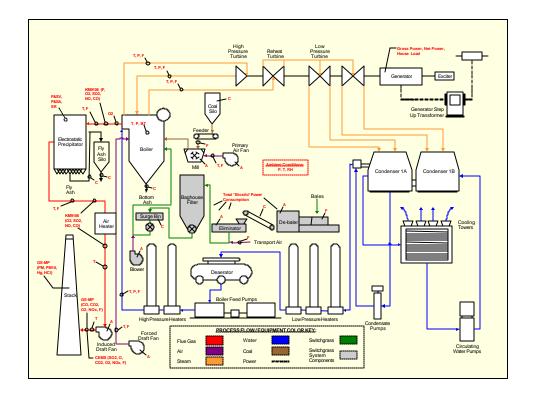


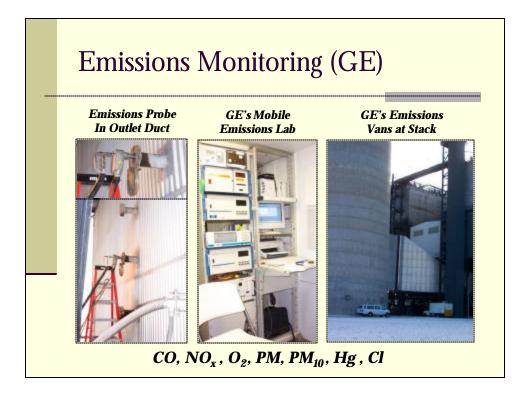


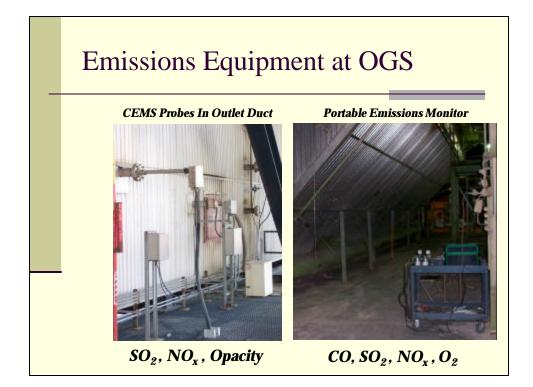


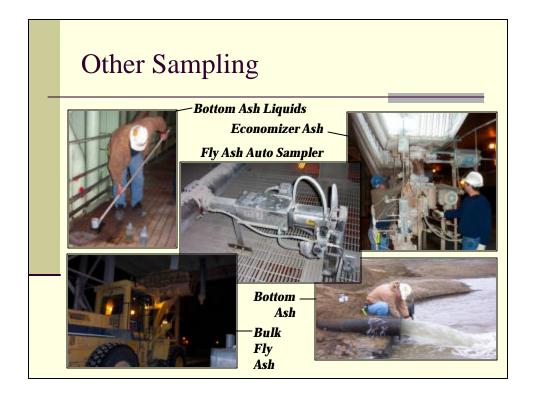


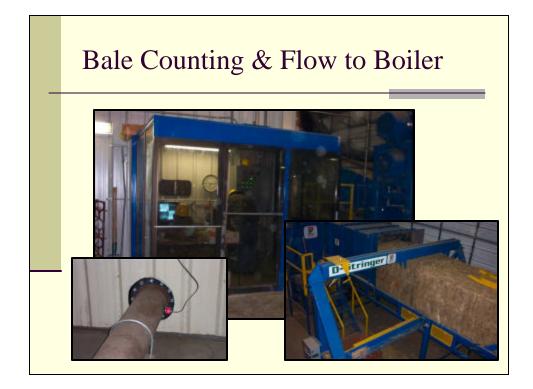






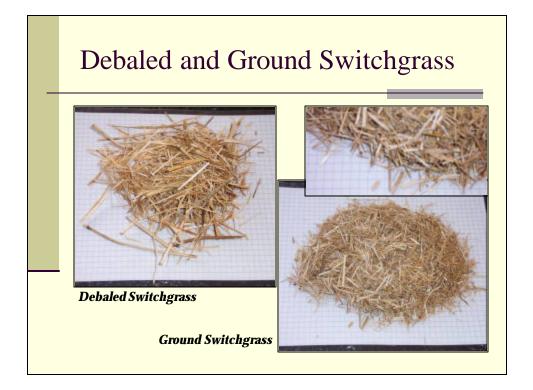


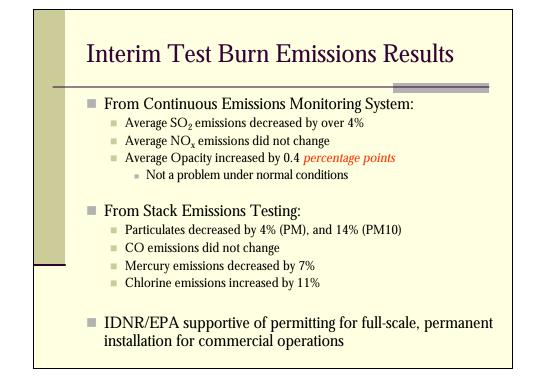


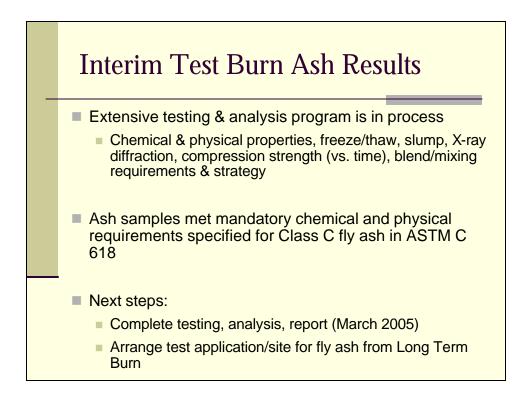








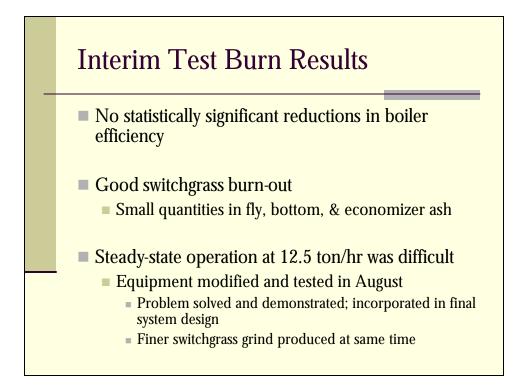




## Interim Test Burn Ash Results

"All test results from both Phase 1 and Phase 2 of this project have indicated that the co-combustion fly ash is essentially the same as the baseline fly ash from OGS. Hence, I do not believe that it should be treated any differently than the fly ash that is currently produced at OGS. However, only the DOT can comment on their acceptance of the cocombustion fly ash. The technical information provided by this study strongly supports the concept that fly ash is a resource that should be recycled, even if it is produced from the co-combustion of coal and switchgrass and thus does not meet the current ASTM C 618 definition of fly ash. Since the DOT has never hesitated to construct their own specifications in prior situations like this, I anticipate that they will behave in a similar matter on the co-combustion issue. They need good fly ash to meet their construction needs - OGS produces good fly ash."

Dr. Scott Schlorholtz, Iowa State University



## Business Development Progress Incorporation of Prairie Lands LLC Biomass Supply Agreement Production Tax Credit Outreach Efforts Pathways to Phase III



