**Brainstorming from November 2 Buildings working group meeting**

**Mission**
Create, preserve, and operate buildings that meet or exceed University needs in a sustainable and efficient manner and effectively communicate and demonstrate these values to current and future generations.

**General concepts leading to mission**
Influence
Change behavior
Evaluate expectations
Meet university needs
Measurement goals
Education/ buy in
Energy reduction
Innovation
Lead by example / push the limits
Recognition / toot our own horn

**Buildings**
Buildings that are maintainable well into future systems, finishes
Optimize space utilization
Building systems that can meet needs requirements
Develop building system standards
Buildings are shelter they can help shelter us from the rough economic times by being well designed executed maintained
Partners Building? Same level of commitment
Getting centennial/private buildings to match our sustainability commitment
Incorporate system/state mandates, understand all mandates develop working plan
Historical renovations
Greening existing buildings
Use more operable windows and day lighting strategies in our buildings
Master plan versus optimize layout/orientation
Consider reuse
Efficient use of space/function
Scheduling
Funding – competing for funds that might otherwise go to program
Reuse of structure
Use latest technology to reduce energy costs
Retrofitting existing buildings

**Land Use**
Create exterior spaces that celebrate the “green” features (signage, sitting areas, artwork placement)(BMP’s, etc)
Storm Water master plan and/or dealing with storm water on site
Site location orientation
Drainage – storm water management and collection

**Energy and Water**
Minimize energy usage
Maintenance – staff to keep equipment at high efficiency – funding for repairs, regular audits, inspections, etc.
Building energy use. – HVAC – 100% outside air – lighting
Realistic targets that are not cost prohibitive, i.e. no 50% energy reduction targets by 2015
buildings use about 40% of energy and resources in the world – NCSU needs to reduce use by 40% or more
Innovative HVAC/lighting that is intuitive
Temperature set backs? Problems in lab buildings?
 Insulation, reflection/absorption
NC State temperature standards
Efficiency encompasses: economic long term, attitude – environmental stewardship and health – social Attitudes of inclusion
Daylighting
Efficiency in buildings is key: energy, water , and resources
Energy efficient building systems
Make departments more accountable for the energy they use (pay for their own utilities)
Innovative water reduction strategies
Where does most of the energy go today? Lab buildings?

**Academics**
NCSU B buildings should have informational signage to explain how each building has addressed “green” issues
Bring school children to campus to show them what we are doing to improve building efficiency – greenness
Commitment to embrace new and innovative technologies, even if payback is slow or non-existent
Education of maintenance staffs (as users, evangelists)(buy – in)
Our students are influenced, for good or ill, by our example. If we take care of Buildings (or not) they notice this. If we have good buildings, they notice
student buy in generated for increase in efficiency
What are expectations of campus facilities? Dorms with AC
What technologies are available
Integrated technology (systems talking)

**Materials and Purchasing**
Renewable resources
Building materials to be selected with a priority given to those within 500 miles
use of durable, low-maintenance materials
Local materials (if brick, then NC brick)
Recyclable materials
Recycled materials

**Transportation**
Make bicycling a higher priority as an alternative mode of transportation (better paths, racks, signage)
Commitment to provide facilities that enhance sustainability, even if not directly more sustainable from the buildings standpoint – showers and locker rooms for bicycle commuters for example
Traffic & parking efficiencies

**WRR**
Encourage Departments to use large bottles of H2O instead of individual bottles, let the “culligans” do that recycling